OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY

GENERAL AIR CONTAMINANT DISCHARGE PERMIT

ATTACHMENT

Department of Environmental Quality
Air Quality Division
Air Operations Section
700 NE Multnomah Street, Suite 600
Portland, OR 97232
Telephone: (503) 229-5696

This permit is being issued in accordance with the provisions of ORS 468A.040 and OAR 340-216-0062.

ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY

Signed Copy on File with DEQ	September 16, 2021
Ali Mirzakhalili, Air Quality Division Administrator	Dated

Small Metal Fabrication and Finishing Operations; Area sources primarily engaged in one of the following operations: (1) Electrical and Electronic Equipment Finishing Operations; (2) Fabricated Metal Products; (3) Fabricated Plate Work (Boiler Shops); (4) Fabricated Structural Metal Manufacturing; (5) Heating Equipment, except Electric; (6) Industrial Machinery and Equipment Finishing Operations; (7) Iron and Steel Forging; (8) Primary Metal Products Manufacturing; and (9) Valves and Pipe Fittings.

Primarily engaged means the manufacturing, fabricating, or forging of one or more products listed in one of the nine metal fabrication and finishing source category descriptions above, where this production represents at least 50 percent of the production at a facility, and where production quantities are established by the volume, linear foot, square foot, or other value (*e.g.,* revenue generation where other common industry measurements are not applicable) suited to the specific industry. The period used to determine production should be the previous continuous 12 months of operation. Facilities must document and retain their rationale for the determination that their facility is not “primarily engaged” pursuant to §63.10(b)(3) of the 40 C.F.R. General Provisions.

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1.0 PERMIT ATTACHMENT ASSIGNMENT

1.1. Qualifications

The permittee must meet all of the following conditions in order to qualify for assignment to this General Air Contaminant Discharge Permit (ACDP) attachment:

a. The permittee is primarily engaged in one or more metal fabrication activities listed on the cover page of this permit, including supporting activities;

b. The permittee uses materials that contain or have the potential to emit metal fabrication and finishing Hazardous Air Pollutants (MFHAP). MFHAP are compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead. If a material contains any of these MFHAP at the following levels, it is a material containing MFHAP: **0.1 percent by weight of cadmium, chromium, lead, or nickel; 1.0 percent by weight for manganese.**

c. The **permittee does not perform** any of the following operations:
   i. Dry abrasive blasting performed in a vented enclosure that uses materials that contain MFHAP or has the potential to emit MFHAP. This includes abrasive blasting with blast media not containing MFHAP of substrates that do contain MFHAP;
   ii. Dry abrasive blasting of objects greater than 8 feet (2.4 meters) in any one dimension that uses materials that contain MFHAP or has the potential to emit MFHAP;
   iii. Spray-applied painting operation using MFHAP containing paints; and
   iv. Welding operation that uses materials that contain MFHAP or has the potential to emit MFHAP and uses 2,000 pounds or more per year of MFHAP containing welding wire and rod (calculated on a rolling 12-month basis).

d. A Simple or Standard ACDP is not required for the source; and

e. The source is not having ongoing, recurring or serious compliance problems.

1.2. Excluded Activities and Operations

For facilities that meet the Qualifications criteria established in Condition 1.1, the following are not subject to this permit attachment or the requirements of this permit attachment:

a. Research or laboratory activities;
b. Tool or equipment repair operations;
c. Facility maintenance;
d. Quality control activities;
e. Operations performed on site at installations owned or operated by the Armed Forces of the United States, the National Aeronautics and Space Administration, or the National Nuclear Security Administration; or
f. Operations that produce military munitions manufactured by or for the Armed Forces of the United States, or equipment directly and exclusively used for the purposes of transporting military munitions.

1.3. Assignment

DEQ will assign qualifying permittees to this permit attachment that have and maintain a good record of compliance with DEQ's Air Quality regulations and that DEQ determines would be appropriately regulated by a General ACDP. DEQ may rescind assignment if the permittee no longer meets the qualifications in Condition 1.1 above, conditions of OAR 340-216-0060, or the Conditions of this permit attachment.

1.4. Permitted Activities

Until this permit attachment expires, is modified, or is revoked, the permittee is allowed to discharge air contaminants from processes and activities directly related to or associated with the air contaminant source(s) listed on the first page of this permit attachment in addition to any categorically insignificant activities, as defined in OAR 340-200-0020, at the source. Discharge of air contaminants from any other equipment or activity not identified herein is not authorized by this permit.

1.5. Relation to Local Land Use Laws

This permit attachment is not valid in Lane County, or at any location where the operation of the permittee's processes, activities, and insignificant activities would be in violation of any local land use or zoning laws. For operation in Lane County, contact Lane Regional Air Protection Agency for any necessary permits at (541) 736-1056. The permittee must obtain local land use approvals as, or where, applicable before operating this facility at any location.

2.0 GENERAL EMISSION STANDARDS AND LIMITS

2.1. Visible Emissions

The permittee must comply with applicable visible emissions requirements established in OAR 340-208-0110.

2.2. Fugitive Emissions

The permittee must comply with applicable fugitive emissions requirements established in OAR 340-208-0210.

2.3. Particulate Matter Fallout

The permittee must comply with the particulate matter requirements established in OAR 340-208-0450.

2.4. Nuisance Odors

The permittee must comply with applicable nuisance and nuisance odor requirements established in OAR 340-208-0300 and OAR 340-208-0550.

2.5. Startup, Shutdown, and Malfunction Provisions

At all times, including periods of startup, shutdown, and malfunction, the permittee must operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the permittee reduce emissions from the source to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the permittee to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the permittee to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved.
Malfunctions must be corrected as soon as practicable after their occurrence.

2.6. Particulate Emissions

The permittee must comply with applicable grain loading standard particulate emission limits for non-fugitive emissions pursuant to OAR 340-226-0210.

3.0 NESHAP 6X APPLICABILITY

3.1. 40 C.F.R. Part 63 Subpart XXXXXX – Emission Standards for Nine Metal Fabrication and Finishing Source Categories

The permittee must comply with all applicable provisions of 40 C.F.R. §63.11514 – §63.11523 for all affected emissions to which this subpart applies by the applicable date in §63.11515. The permittee must also comply with all applicable provisions of 40 C.F.R. Part 63, Subpart A – NESHAP General Provisions. For a full text of the federal standard, please refer to 40 C.F.R. Part 63, Subpart XXXXXX.

NESHAP Subpart XXXXXX is adopted and incorporated by reference in OAR chapter 340 division 244.

4.0 OPERATION AND MAINTENANCE REQUIREMENTS

4.1. NESHAP Compliance Dates

For an existing affected source (began construction or reconstruction before April 3, 2008), the permittee must have achieved compliance with the applicable provisions by July 25, 2011.

For a new affected source (began construction or reconstruction on or after April 3, 2008), the permittee must be in compliance with the applicable provisions upon startup.

4.2. Dry Abrasive Blasting Performed in Totally Enclosed and Unvented Blast Chambers

These requirements do not apply when abrasive blasting operations are being performed that do not use any materials containing MFHAP and do not have the potential to emit MFHAP. Hydroblasting, wet abrasive blasting, or other abrasive blasting operations which employ liquids to reduce emissions are not dry abrasive blasting.

The permittee must implement the following management practices to minimize emissions of MFHAP:

a. The permittee must **minimize dust generation during emptying** of abrasive blasting enclosures. The permittee must demonstrate compliance with this requirement by maintaining records of, and complying with, written Standard Operating Procedures (or equivalent) that describes how dust generation is minimized onsite; and

b. The permittee must **operate all equipment** associated with dry abrasive blasting operations **according to the manufacturer's instructions**. The permittee must demonstrate compliance with this requirement by maintaining records of, and complying with, written manufacturer's instructions.

4.3. Machining

These requirements do not apply when machining operations are being performed that do not use any materials containing MFHAP and do not have the potential to emit MFHAP. Processes specifically excluded are hand-held devices and any process employing fluids for lubrication or cooling.

The permittee must implement the following management practices to minimize emissions of MFHAP:

a. The permittee must **take measures necessary to minimize excess dust** in the surrounding area to reduce MFHAP emissions, as practicable. The permittee must demonstrate compliance with this requirement by maintaining records of, and complying with, written Standard Operating Procedures (or equivalent) that describes how excess dust is reduced onsite; and

b. The permittee must **operate all equipment** associated with machining **according to manufacturer's instructions**. The permittee must demonstrate compliance with this requirement by maintaining records of, and complying with, written manufacturer's instructions.

4.4. Dry Grinding and Dry Polishing with Machines

These requirements do not apply when dry grinding and dry polishing operations are being performed that do not use any materials containing MFHAP and do not have the potential to emit MFHAP. Hand grinding, hand polishing, and bench top dry grinding and dry polishing are not subject to this Condition.

The permittee must comply with the following requirements for each fixed and stationary dry grinding and dry polishing machine that does not use lubricating oils or fluids to minimize emissions of MFHAP:

a. The permittee must **capture emissions and vent them to a filtration control device**. The permittee must demonstrate compliance with this requirement by maintaining a record of, and complying with, written manufacturer's instructions for the filtration control device(s); and

b. The permittee must implement management practices to minimize emissions of MFHAP as follows:
   i. The permittee must **take measures necessary to minimize excess dust** in the surrounding area to reduce MFHAP emissions, as practicable. The permittee must demonstrate compliance with this requirement by maintaining records of, and complying with, written Standard Operating Procedures (or equivalent) that describes how excess dust is reduced onsite; and
   ii. The permittee must **operate all equipment** associated with the operation of dry grinding and dry polishing with machines **according to manufacturer's instructions**. The permittee must demonstrate compliance with this requirement by maintaining records of, and complying with, written manufacturer's instructions.

4.5. Welding

The permittee must comply with the requirements in Conditions 4.5.a and 4.5.b for all welding activity that uses materials that contain MFHAP or has the potential to emit MFHAP.

a. The permittee must **operate all equipment, capture devices, and control devices** associated with welding operations **according to manufacturer's instructions**. The permittee must demonstrate compliance with this requirement by maintaining records of, and complying with, written manufacturer's instructions.
b. The permittee 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 judgment. The permittee must demonstrate compliance with this requirement by maintaining records of, and complying with, written Standard Operating Procedures (or equivalent) that describes which management practice(s) are implemented onsite.
   i. Use welding processes with reduced fume generation capabilities (e.g., gas metal arc welding (GMAW)—also called metal inert gas welding (MIG));
   ii. Use welding process variations (e.g., pulsed current GMAW), which can reduce fume generation rates;
   iii. Use welding filler metals, shielding gases, carrier gases, or other process materials which are capable of reduced welding fume generation;
   iv. 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;
   v. Use a welding fume capture and control system according to the manufacturer's specifications and instructions. The permittee must maintain records of, and comply with, written manufacturer's instructions.
c. The permittee 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.

4.6. Visual Determination of Fugitive Emissions

The permittee must conduct a visual observation of fugitive emissions following EPA Method 22 (see 40 C.F.R. part 60 Appendix A-7) according to the following:
Each observation must be conducted while the source is operating under normal conditions. Each observation must be at least fifteen (15) minutes in duration. Visible emissions are considered present if they are detected for more than six (6) minutes in the fifteen (15) minute period.

The permittee must conduct the first observation with 30 calendar days of being assigned to this permit or upon resuming operations, whichever is later.

a. **Daily**: Perform an observation of visible **once per day** during operation of the process. If observations and records demonstrate that no visible emissions are detected in 10 consecutive daily Method 22 tests, the permittee may elect to comply with Condition 4.6.b in lieu of this 4.6.a.
b. **Weekly**: Perform an observation of visible emissions **once every five business days (or one calendar week)** during operation of the process the permittee must resume Method 22 testing once per day during operation of the process according to Condition 4.6.a. If observations and records demonstrate that no visible fugitive emissions are detected in four consecutive weekly Method 22 tests, the permittee may elect to comply with Condition 4.6.c. in lieu of this 4.6.b.
c. **Monthly**: Perform an observation of visible emissions **once per 21 business days (or one calendar month)** during operation of the process. If visible fugitive emissions are detected during these tests, the permittee must resume Method 22 testing once every 5 business days (one calendar week) during operation of the process according to Condition 4.6.b. If observations and records demonstrate that no visible fugitive emissions are detected in three consecutive monthly Method 22 tests, the permittee may elect to comply with Condition 4.6.d. in lieu of this 4.6.c.
d. **Quarterly**: Perform an observation of visible emissions **once per 60 business days (or 3 calendar months)** during operation of the process. If visible fugitive emissions are detected during these tests, the permittee must resume Method 22 testing once per 21 business days (one calendar month) during operation of the process according to Condition 4.6.c.
e. If visible fugitive emissions are detected during any visual determination, the permittee must perform, and keep record of, corrective actions. This must include, but is not limited to, inspection of welding fume sources and evaluation of the proper operation and effectiveness of management practices or fume control measures implemented.

5.0 RISK MITIGATION REQUIREMENTS

5.1. Welding Operations

Beginning January 1, 2022, the permittee must install and operate a fume capture and control system compliant with Condition 5.2 before:

a. **The permittee uses any** welding wire or rod electrode E310, E310-15, or 14Mn-4Cr;
b. **The permittee uses over 60 pounds** of any manganese-containing welding wire or rod in any 24 hour period;
c. **The permittee uses over 180 pounds** of any chromium VI (chrome 6) containing welding wire or rod in a 12 consecutive month period; or
d. **The permittee uses over 20,000 pounds** of any nickel-containing welding wire or rod in a 12 consecutive month period.

5.2. Operation

The permittee must operate and maintain the fume capture and control system according to the manufacturer's specifications and recommended procedures. Fume capture and control systems must be one of the following and route emission to either a high efficiency filter, particulate scrubber, electrostatic precipitator, or activated carbon filter:

a. Torch fume extractor (portable collection and control units);
b. Permanent hoods, vents, and ducting; or
c. Enclosed welding booths.

5.3. Fume Capture and Control System Installation

Permittees required to install and operate a fume capture and control system must submit a Notice of Intent to Construct according to Condition 8.4 before commencing construction or installation of the pollution control equipment.

6.0 PLANT SITE EMISSION LIMITS AND COMPLIANCE DEMONSTRATION

6.1. Plant Site Emission Limits (PSEL)

Plant site emissions must not exceed the following. These PSELs are **not** in addition to the PSELs in the source's General ACDP and other General ACDP Attachments:

Pollutant	Limit	Units
PM	24	tons per year
PM_{10}	14	
$PM_{2.5}$	9	
VOC	39	
Single HAP	9	
Combined HAPs	24	

6.2. PM10 PSEL for Medford-Ashland AQMA

For sources operating in the Medford-Ashland AQMA, the permittee must not allow the plant site emissions of PM10 to exceed the following:

Pollutant	Limit	Units
PM_{10}	4.5	tons per year
	49	pounds per day

6.3. Annual Period

The annual plant site emissions limits apply to any 12-consecutive calendar month period.

6.4. Compliance Demonstration

Compliance with the PSELs for blasting, machining, grinding, polishing, and welding is determined for each 12-consecutive calendar month period based on material throughput. The permittee must demonstrate compliance with the PSELs on a monthly basis as follows:

a. VOC and HAP PSEL Compliance Demonstration

$$E_{HAP/VOC} = [\Sigma(C_X * K_X)] \times 1 \text{ ton}/2000 \text{ pounds}$$

where,

$E_{HAP/VOC}$ = VOC or HAP emissions (tons/yr);
Σ = symbol representing "summation of"
C = Material usage for the period in pounds (lbs);
K = VOC or HAP content of the material (lbs/ton);
X = Subscript X represents a specific material.

b. PM PSEL Compliance Demonstration

The permittee must demonstrate compliance with the yearly PM PSELs on a monthly (or daily) basis, as applicable, as follows:

$$E_{PM/PM10/PM2.5} = [\Sigma(C * K)] \times 1 \text{ ton}/2000 \text{ pounds}$$

where,

$E_{PM/PM10/PM2.5}$ = PM emissions (tons/yr);
Σ = symbol representing "summation of"
C = Material usage for the period in 1,000 pounds (lbs);
K = Emission factor from Condition 13 or 14

7.0 RECORDKEEPING REQUIREMENTS

7.1. General Compliance and Applicability Records

The permittee must maintain the following information for each affected source:

a. Logs or records that demonstrate operations and maintenance activities complied with all Standard Operating Procedures (or equivalent) and manufacturer's instructions;
b. Each notification and report that is submitted to comply with this permit, and the documentation supporting each notification and report; and
c. Records of applicability determinations and equipment included in the affected source. This must include any changes to applicability determinations and equipment of the affected source and on what date the changes occurred.

7.2. Manufacturer's Specifications, Instructions, and Facility Standard Operating Procedures

The permittee must maintain a record of the manufacturer's specifications and instructions for equipment as required by Conditions 4.2 through 4.5, as applicable.

The permittee must maintain a record of Standard Operating Procedures (or equivalent) that describes all compliance procedures for Conditions 4.2 through 4.5.

7.3. Visual Determinations of Fugitive Emissions

The permittee must maintain records of all visual observations required by Condition 4.6, including:

a. The date and results of every visual determination of fugitive emissions;
b. A description of all corrective actions taken after observations; and
c. The date and results of any follow-up observations performed after the corrective action(s).

7.4. Fuel Usage

The permittee must maintain records of fuel usage, and units, on a monthly basis. (e.g. distillate #2, 500 gallons. Natural Gas, 10 Therms). This must also include a brief description or identification of how each fuel was used (e.g., engine, boiler, heater, etc.).

7.5. Abrasive Usage

The permittee must maintain records of MFHAP containing abrasive material usage, in pounds, on a monthly basis for each type of abrasive used.

7.6. Welding

a. Welding Rod Usage: The permittee must maintain records of MFHAP containing welding rod and wire usage, in pounds, on a monthly basis for each welding wire or rod used. The permittee must maintain records of the welding type or process that each wire or rod is used in. If the permittee uses manganese-containing welding wire or rod, the same usage data for this wore and rod must be retained on a daily basis.

b. Fume Capture and Control: If the permittee is required to install and operate a fume capture and control system in accordance with Condition 5.0, the permittee must retain manufacturer documentation describing operation and maintenance procedures. The permittee must retain documentation demonstrating that these operation and maintenance procedures are followed.

7.7. Retention of Records

Unless otherwise specified, the permittee must retain all records for a period of at least five (5) years from the date of each report or record and make them available to DEQ upon request. The permittee must maintain at least the two (2) most recent years of records onsite or otherwise readily available electronically for expeditious review.

8.0 REPORTING REQUIREMENTS

8.1. Initial Notification

The permittee must submit an Initial Notification in accordance with 40 C.F.R. §63.11519(a)(1) within 120 days after initial startup. A form for this purpose is available from DEQ. The notification must be submitted to DEQ **and** EPA's Region X office as follows:

Oregon DEQ
700 NE Multnomah St. Suite 600
Portland, OR 972322
ATTN: Air Operations NESHAP

U.S. EPA, Region 10
1200 Sixth Avenue, Suite 155
Seattle, WA 98101

8.2. Notification of Compliance Status

The permittee must submit a Notification of Compliance Status in accordance with 40 C.F.R. §63.11519(a)(2). A form for this purpose is available from DEQ. The notification must be submitted to DEQ **and** EPA's Region X office as follows:

a. For existing sources, this notification was required to be submitted on or before November 22, 2011; and

b. For new sources, this notification must be submitted within 120 days after initial startup.

Oregon DEQ
700 NE Multnomah St. Suite 600
Portland, OR 97232
ATTN: Air Operations NESHAP

U.S. EPA, Region 10
1200 Sixth Avenue, Suite 155
Seattle, WA 98101

8.3. Annual Reports

The permittee must prepare and submit two (2) copies of an annual report for the previous calendar year according to the following requirements:

a. **Dates.** The permittee must prepare the annual report no later than January 31 of each year. The permittee must submit the annual report by February 15 of each year this permit is in effect.

b. **General requirements**. The annual report must contain the following information:
   i. Company name and address;
   ii. 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; and
   iii. Date of report and beginning and ending dates of the reporting period. The reporting period is the 12-month period ending on December 31.

c. **Visual Determination of Fugitive Emissions**. The annual report must contain the date of every visual determination for fugitive emissions, identification of any dates that resulted in a detection of visible emissions, and a description of all corrective actions taken subsequent to a fugitive emissions detection.

d. **Material Usage**. The annual report must contain the following information:
   i. Fuel usage. List of all fuel(s) used, the total of each fuel used, and units (e.g. gallons, therms, thousand cubic feet) for the previous calendar year. This must include a brief description or identification of how the fuel was used (e.g., in a backup generator, boiler, heater, etc.);
   ii. Abrasive material usage. The total amount of abrasive material usage, in pounds, on a monthly basis; and
   iii. Welding rod usage. The total of each MFHAP-containing welding rod and wire used, in pounds, on a monthly basis. Any welding wire or rod material used that contains manganese must be reported on a daily basis.

8.4. Construction or Modification Notices

The permittee must notify DEQ in writing using a DEQ "Notice of Intent to Construct Form," or other permit application form, and obtain approval in accordance with OAR 340-210-0205 through 340-210-0250 before:

a. Constructing, installing, or establishing a new stationary source that will cause an increase in any regulated pollutant emissions;
b. Making any physical change or change in operation of an existing stationary source that will cause an increase, on an hourly basis at full production, in any regulated pollutant emissions; or
c. Constructing or modifying any air pollution control equipment.

8.5. Where to Send Reports and Notices

Reports and notices, with the permit number prominently displayed, must be sent to the Permit Coordinator for the region where the source is located as identified in Condition 9.3, unless otherwise specified.

9.0 ADMINISTRATIVE REQUIREMENTS

9.1. Employee Commute Options Program

Sources located inside the Portland Air Quality Maintenance Area (AQMA) with more than 100 employees at a work site must comply with the Employee Commute Options Program requirements located in OAR 340-242-0020 through 340-242-0390.
For forms (Fact Sheet, Registration, or Survey Guidance documents) or questions regarding ECO, please contact the ECO program directly at 503-229-6154 or ECO@deq.state.or.us.
Additional information is available from DEQ's website for the ECO program located here: https://www.oregon.gov/deq/aq/programs/Pages/ECO.aspx

9.2. Reassignment to the General ACDP Attachment

A permittee that wishes to continue assignment to this General ACDP attachment must submit to DEQ an application for reassignment as follows:

a. The application must be received by DEQ within 30 days prior to the expiration date listed on this permit attachment;
b. The application must be sent to the appropriate regional office identified in Condition 9.3; and
c. The permittee may submit an application for either a Simple or Standard ACDP at any time, but the permittee must continue to comply with the General ACDP until DEQ takes final action on the Simple or Standard ACDP application.

9.3. Permit Coordinator Addresses

All reports, notices, and applications must be directed to the Permit Coordinator for the area where the source is located unless otherwise specified. The Permit Coordinator addresses are as follows:

Counties	Permit Coordinator Address and Telephone
Statewide	Once DEQ's online portal Environmental Data Management System, 'Your DEQ Online' is available for this permit, the permittee will be directed to submit any reports, notices, applications, or fees required by this permit within the online system or through the addresses and information provided at that time. Until the online portal is available for this permit, the permittee must use the addresses and information identified below.
Clackamas, Clatsop, Columbia, Multnomah, Tillamook, and Washington	Department of Environmental Quality Northwest Region 700 NE Multnomah St., Suite 600 Portland, OR 97232-4100 Telephone: (503) 229-5582 NWRaqPermits@deq.state.or.us
Benton, Coos, Curry, Douglas, Jackson, Josephine, Lincoln, Linn, Marion, Polk, and Yamhill	Department of Environmental Quality Western Region 4026 Fairview Industrial Drive Salem, OR 97302 Telephone: (503) 378-8240 ext. 225 WRaqPermits@deq.state.or.us
Baker, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, Wheeler	Department of Environmental Quality Eastern Region 475 NE Bellevue, Suite 110 Bend, OR 97701 Telephone: (541) 388-6146 ext. 223 ERaqPermits@deq.state.or.us

10.0 FEES

10.1. Annual Compliance Fee

The annual fees specified in OAR 340-216-8020, Table 2, are due on or by **December 1** of each year this permit attachment is in effect. Invoices indicating the amount, as determined by DEQ regulations, will be mailed prior to the above date. **Late fees in accordance with Part 5 of the table will be assessed as appropriate.**

10.2. Where to Submit Fees

Fees, with a permit number prominently displayed, must be submitted to:

Department of Environmental Quality
Financial Services – Revenue Section
700 NE Multnomah St. Suite 600
Portland, OR 97232-4100

11.0 GENERAL CONDITIONS AND DISCLAIMERS

11.1. Other Regulations

In addition to the specific requirements listed in this permit attachment, the permittee must comply with all other applicable legal requirements enforceable by DEQ.

11.2. Conflicting Conditions

In any instance in which there is an apparent conflict relative to conditions in this permit attachment, the most stringent conditions apply.

11.3. Permit Availability

The permittee must have a copy of the permit attachment available at the facility at all times.

11.4. Termination, Revocation, Rescission, or Modification

DEQ may modify or revoke this permit attachment as authorized under OAR chapter 340 division 216.

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12.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

ACDP	Air Contaminant Discharge Permit	gr/dscf	grains per dry standard cubic foot
ASTM	American Society for Testing and Materials	HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040
AQMA	Air Quality Maintenance Area		
calendar year	The 12-month period beginning January 1st and ending December 31st	I&M	inspection and maintenance
		lb	pound(s)
		MMBtu	million British thermal units
CAO	Cleaner Air Oregon	NA	not applicable
CFR	Code of Federal Regulations	NESHAP	National Emissions Standards for Hazardous Air Pollutants
CO	carbon monoxide		
CO_2e	carbon dioxide equivalent	NO_X	nitrogen oxides
DEQ	Oregon Department of Environmental Quality	NSPS	New Source Performance Standard
dscf	dry standard cubic foot	NSR	New Source Review
EPA	US Environmental Protection Agency	O_2	oxygen
		OAR	Oregon Administrative Rules
FCAA	Federal Clean Air Act	ORS	Oregon Revised Statutes
Gal	gallon(s)	O&M	operation and maintenance
GHG	greenhouse gas	Pb	lead

PCD	pollution control device	SER	Significant Emission Rate
PM	particulate matter	SIC	Standard Industrial Code
PM_{10}	particulate matter less than 10 microns in size	SIP	State Implementation Plan
		SO_2	sulfur dioxide
$PM_{2.5}$	particulate matter less than 2.5 microns in size	Special Control Area	as defined in OAR 340-204-0070
ppm	part per million		
PSD	Prevention of Significant Deterioration	TACT	Typically Achievable Control Technology
PSEL	Plant Site Emission Limit	VE	visible emissions
PTE	Potential to Emit	VOC	volatile organic compound
RACT	Reasonably Available Control Technology	year	A period consisting of any 12-consecutive calendar months
scf	standard cubic foot		

13.0 PM EMISSION FACTORS FOR WELDING

All emission factors are applicable to PM, PM_{10}, and $PM_{2.5}$. For permittees that use fume capture and control device(s), manufacturer documentation regarding capture and control efficiency may be cited to report a lower emission factor as applicable.

Welding Process	Electrode Type(s)	Last two digits of SCC	Emission Factor	Emission Factor Units
SMAW (SCC 3-09-051)	14Mn-4Cr	(-04)	81.6	lbs/1,000 lbs of electrode consumed
	E11018, E11018-M	(-08)	16.4	
	E308, E308-16, E308L-15	(-12)	10.8	
	E310, E310-16	(-16)	15.1	
	E316, E316-15, E316-16, E316L-16	(-20)	10.0	
	E410, E410-16	(-24)	13.2	
	E6010	(-28)	25.6	
	E6011	(-32)	38.4	
	E6012	(-36)	8.0	
	E6013	(-40)	19.7	
	E7018	(-44)	18.4	
	E7024	(-48)	9.2	
	E7028	(-52)	18.0	
	E8018, E8018C3	(-56)	17.1	
	E9015, E9015B3	(-60)	17.0	
	E9018, E9018B3, E9018G	(-64)	16.9	
	ECOCr, ECoCr-A	(-68)	27.9	
	Eni-Cl	(-72)	18.2	
	ENiCrMo, ENiCrMo-4	(-76)	11.7	
	Eni-Cu, Eni-Cu-2	(-80)	10.1	

GMAW (SCC-3-09-052)	E308L	(-12)	5.4	lbs/1,000 lbs of electrode consumed
	E70S	(-54)	5.2	
	ER1260	(-10)	20.5	
	ER5154	(-26)	24.1	
	ER316	(-20)	3.2	
	ERNiCrMo	(-76)	3.9	
	ERNiCu	(-80)	2.0	
FCAW (SCC 3-09-053)	E110, E110TS-K3	(-06	20.8	lbs/1,000 lbs of electrode consumed
	E11018	(-08)	57.0	
	E308LT, E308LT-3	(-12)	9.1	
	E316LT, E316LT-3	(-20)	8.5	
	E70T, E70T-1, E70T-2, E70T-4, E70T-5, E70T-7, E70T-G	(-54)	15.1	
	E71T, E71T-1, E71T-11	(-55)	12.2	
SAW (SCC 3-09-054)	EM12K, EM12K1, F72-EM12K2	(-10)	0.05	lbs/1,000 lbs of electrode consumed

14.0 PM EMISSION FACTORS FOR ABRASIVE BLASTING

Activity	Pollutant	Emission Factor	Emission Factor Units
Sand Blasting	PM	57.6[1]	lbs/1,000 pounds of abrasive used
	PM_{10}	13	
	$PM_{2.5}$	1.3	
Grit Blasting[2]	PM	13.8	lbs/1,000 pounds of abrasive used
	PM_{10}	3.1	
	$PM_{2.5}$	0.3	
Shot Blasting[2]	PM	5.76	lbs/1,000 pounds of abrasive used
	PM_{10}	1.3	
	$PM_{2.5}$	0.13	
Abrasive Blasting w/ Fabric Filter Control	$PM/PM_{10}/PM_{2.5}$	0.69	lbs/1,000 pounds of abrasive used

1: Total PM emissions are variable based on windspeed, between 27 and 91 lb/1,000 lbs of abrasive, 57.6 is the mean of available emission factor data that accounts for varying windspeed throughout the year at the source.
2: AP-42 estimates that Grit Blasting emits 24% and Shot Blasting emits 10% of total Sand Blasting PM.

15.0 OPERATION & MAINTENANCE PLANS

Operations & Maintenance Plans required pursuant to OAR 340-240-0190 or Condition 2.6:

The purpose of the plan must be to:	Reduce the number of upsets and breakdowns in particulate control equipment.
	Reduce the duration of upsets and downtimes.
	Improve the efficiency of control equipment during normal operations.
The plans must consider and include, but is not limited to:	Personnel training in operation and maintenance.
	Preventative maintenance procedures, schedule and records.
	Logging of the occurrence and duration of all upsets, breakdowns and malfunctions which result in excessive emissions.
	Routine follow-up evaluation of upsets to identify the cause of the problem and changes needed to prevent a recurrence.
	Inspection of internal wear points of pollution control equipment during scheduled shutdowns.
	Inventory of key spare parts.

Jce: 03/28/2011; drd 04/22/2020
AQGP-029 Metal Fabrication and Finishing (Small)