

GENERAL
AIR CONTAMINANT DISCHARGE PERMIT

Department of Environmental Quality
Air Quality Division
811 SW Sixth Avenue
Portland, OR 97204-1390
Telephone: (503) 229-5359

This permit is issued in accordance with the provisions of ORS 468A.040 and incorporated into OAR 340-216-0060 by the Environmental Quality Commission on December 12, 2008 for the following source category:

Wood preserving facilities subject to Part 63, Title 40 of Code of Federal Regulations, Subpart QQQQQQ, as adopted under OAR 340-244-0220. NAICS 321114.

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1.0 PERMIT ASSIGNMENT

- 1.1. Qualifications** All of the following conditions must be met in order to qualify for assignment to this General Air Contaminant Discharge Permit (ACDP):
- a. The permittee is performing wood preserving activities using any wood preservative containing chromium, arsenic, dioxins, or methylene chloride.
 - b. A Simple or Standard ACDP is not required for the source.
 - c. The source is not having ongoing, recurring or serious compliance problems.
- 1.2. Assignment** The Department will assign qualifying permittees to this permit that have and maintain a good record of compliance with the Department's Air Quality regulations and that the Department determines would be appropriately regulated by a General ACDP. The Department may rescind assignment of the permittee no longer meets the requirements of the permit.
- 1.3. Permitted Activities** The permittee is allowed to discharge air contaminants from processes and activities related to the air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, revoked or rescinded as long as conditions of this permit are complied with. If there are other emissions activities occurring at the site besides those listed on the cover page of this permit, the permittee may be required to obtain a Simple or Standard ACDP or additional General ACDP(s), if applicable.
- 1.4. Relation to local land use laws** This permit 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. It is the permittee's sole responsibility to 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 the following visible emission limits, as applicable:
- a. In Clackamas, Columbia, Multnomah, or Washington

Counties, emissions from any air contaminant source must not equal or exceed 20% opacity for a period aggregating more than 30 seconds in any one hour.

- b. In all other areas of the state, emissions from any air contaminant source must not equal or exceed 20% opacity for a period aggregating more than 3 minutes in any one hour.

- 2.2. Fugitive Emissions** The permittee must take reasonable precautions to prevent fugitive dust emissions, such as but not limited to:
 - a. Treating vehicular traffic areas of the plant site under the control of the permittee.
 - b. Operating all air contaminant-generating processes so that fugitive type dust associated with the operation will be adequately controlled at all times.
 - c. Storing collected materials from air pollution control equipment in a covered container or other method equally effective in preventing the material from becoming airborne during storage and transfer.

- 2.3. Particulate Matter Fallout** The permittee must not cause or permit the emission of any particulate matter larger than 250 microns in size at sufficient duration or quantity, as to create an observable deposition upon the real property of another person. The Department will verify that the deposition exists and will notify the permittee that the deposition must be controlled.

- 2.4. Nuisance and Odors** The permittee must not cause or allow air contaminants from any source to cause a nuisance. Nuisance conditions will be verified by Department personnel.

- 2.5. Fuels and Fuel Sulfur Content** The permittee must not use any fuel other than natural gas, propane, butane, ASTM grade fuel oils, or on-specification used oil.
 - a. Fuel oils must not contain more than:
 - i. 0.3% sulfur by weight for ASTM Grade 1 distillate oil;
 - ii. 0.5% sulfur by weight for ASTM Grade 2 distillate oil or on-specification used oil;

- b. The permittee is allowed to use on-specification used oil that contains no more than 0.5% sulfur by weight. The permittee must obtain analyses from the marketer or, if generated on site, have the used oil analyzed, so that it can be demonstrated that the used oil does not exceed the used oil specifications contained in 40 CFR Part 279.11, Table 1.

3.0 SPECIFIC PERFORMANCE AND EMISSION STANDARDS

- 3.1. Work Practice Standards** The permittee must prepare and operate according to a management practice plan to minimize air emissions from the preservative treatment of wood. The permittee may use standard operating procedures to meet the requirements for a management practice plan if it includes the minimum activities required for a management practice plan. The management practice plan must include, but is not limited to, the following activities:
 - a. Minimize preservative usage;
 - b. Store treated wood product on drip pads or in a primary containment area to convey preservative drippage to a collection system until drippage has ceased;
 - c. For the pressure treatment process, fully drain the retort to the extent practicable, prior to opening the retort door;
 - d. Promptly collect any spills; and
 - e. Perform relevant corrective actions or preventative measures in the event of a malfunction before resuming operations.
- 3.2. Pressure Treatment Standards** The preservative must be applied to the wood product inside a retort or similarly enclosed vessel.
- 3.3. Thermal Treatment Standards** The preservative must be applied using process treatment tanks equipped with an air scavenging system to control emissions.

4.0 OPERATION AND MAINTENANCE REQUIREMENTS

- 4.1. 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. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, the permittee must comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices.

5.0 PLANT SITE EMISSION LIMITS

5.1. Plant Site Emission Limits (PSEL)

Plant site emissions must not exceed the following:

Pollutant	Limit	Units
PM	24	tons per year
PM ₁₀	14	tons per year
SO ₂	39	tons per year
NO _x	39	tons per year
CO	99	tons per year
VOC	39	tons per year
Single HAP	9	tons per year
Combined HAPs	24	tons per year

5.2. PM₁₀ PSEL for Medford-Ashland AQMA

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

Pollutant	Limit	Units
PM ₁₀	4.5	tons per year
	49	pounds per day

5.3. Annual Period

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

6.0 COMPLIANCE DEMONSTRATION

- 6.1. Fuel Sulfur Monitoring** If fuel oil is burned, the permittee must either obtain a certificate from the vendor stating that the fuel sulfur content complies with the limits in Condition 2.5 or have a sample of the fuel analyzed in accordance with the appropriate ASTM analytical procedures. If the permittee has samples analyzed for sulfur, a sample must be collected from the holding tank just after each shipment of oil is added to the tank.
- 6.2. PSEL Compliance Monitoring** Compliance with the PSEL is determined for each 12-consecutive calendar month period based on the following calculation for each pollutant:
- $$E = \Sigma(EF \times P)/2000$$
- where,
- E = pollutant emissions (tons/yr);
EF = pollutant emission factor (see Condition 6.3);
P = process production
- 6.3. Emission Factors** The permittee must use the default emission factors provided IN Condition 12.0 for calculating pollutant emissions, unless alternative emission factors are approved by the Department. The permittee may request or the Department may require using alternative emission factors provided they are based on actual test data or other documentation (e.g., AP-42 compilation of emission factors) that has been reviewed and approved by the Department.

7.0 RECORDKEEPING REQUIREMENTS

- 7.1. Notifications** The permittee must keep a copy of each Initial Notification and each Notification of Compliance Status, including all documentation supporting any Initial Notification or Notification of Compliance Status.
- 7.2. Operation and Maintenance** The permittee must maintain the following records related to the operation and maintenance of the plant:
- a. Sulfur content from vendor certification of each shipment of fuel oil, if used at the plant.
 - b. Daily (Medford/Ashland AQMA only), monthly and annual operating parameters as shown in the table below:

Emissions Unit	Process Parameter	Units
Natural gas-fired boilers or heaters	fuel combusted	cubic feet (ft ³)
Propane, butane, or oil-fired boilers or heaters	fuel combusted	gallons
Wood-fired boilers	steam production	pounds of steam
Cyclones	material throughput by type of material	bone dry ton (BDT)
Kiln	material throughput	thousand board feet (MBF)
Surface coating VOCs	material usage	gallons or pounds
	VOC content	pounds per gallon or weight %
	HAP content (single and combined)	pounds per gallon or weight %
Wood preserving	wood preserved	thousand cubic feet (Mft ³)

7.3. Work Practices

The permittee must maintain records related to the following activities.

- a. Maintain records on the type of treatment process and types and amounts of wood preservatives used at the facility;
- b. For the pressure treatment process, maintain charge records identifying pressure reading(s) inside the retorts (or similarly enclosed vessel); and
- c. For the thermal treatment process, maintain records that the air scavenging system is in place and operated properly during the treatment process.

7.4. Complaint Log

The permittee must maintain a log of all written complaints and complaints received via telephone that specifically refer to air pollution concerns associated to the permitted facility. The log must include a record of the permittee's actions to investigate the validity of each complaint and a record of actions taken for complaint resolution.

7.5. Retention of Records

All records must be maintained for a period of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee must hold the

records on site for a period of two (2) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, and make them available to the Department upon request.

8.0 REPORTING REQUIREMENTS

- 8.1. Annual Report** The permittee must submit to the Department by February 15 of each year this permit is in effect, two (2) copies of the following information for the preceding calendar year:
- a. Annual emissions as calculated according to Conditions 6.2 and 6.3, including the supporting process parameter and emission factor information.
 - b. Summary of complaints relating to air quality received by permittee during the year.
 - c. List permanent changes made in plant process, production levels, and pollution control equipment which affected air contaminant emissions.
- 8.2. Deviation Report** The permittee must report any deviation from the requirements of this permit within 30 days of the deviation.
- 8.3. Notice of Change of Ownership or Company Name** The permittee must notify the Department in writing using a Departmental "Permit Application Form" within 60 days after the following:
- a. Legal change of the name of the company as registered with the Corporations Division of the State of Oregon; or
 - b. Sale or exchange of the activity or facility.
- 8.4. Construction or Modification Notices** The permittee must notify the Department in writing using a Departmental "Notice of Construction Form," or "Permit Application Form," and obtain approval 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** The reports, with the permit number prominently displayed, must be sent to the Permit Coordinator for the region where the source

Notices is located as identified in Condition 9.2.

9.0 ADMINISTRATIVE REQUIREMENTS

9.1. Permit Renewal Application A complete application for reassignment to this permit is due within 60 days after the permit is reissued. The Department will notify the permittee when the permit is reissued. The application must be sent to the appropriate regional office.

- a. 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 application.
- b. If a complete application for reassignment to the General permit, or application made for a Simple or Standard permit in a timely manner, the permit will not be deemed to expire until final action has been taken on the application.

9.2. Permit Coordinator Addresses All reports, notices, and applications should be directed to the Permit Coordinator for the area where the source is located. The Permit Coordinator addresses are as follows:

Counties	Permit Coordinator Address and Telephone
Clackamas, Clatsop, Columbia, Multnomah, Tillamook, and Washington	Department of Environmental Quality Northwest Region 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 Telephone: (503) 229-5582
Benton, Coos, Curry, Douglas, Jackson, Josephine, Lincoln, Linn, Marion, Polk, and Yamhill	Department of Environmental Quality Western Region 750 Front Street NE, Suite 120 Salem, OR 97301-1039 Telephone: (503) 378-5305
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) 633-2021

9.3. Department Contacts Information about air quality permits and the Department's regulations may be obtained from the DEQ web page at <http://www.oregon.gov/DEQ/>. All inquiries about this permit should be directed to the regional office for the area where the

source is located. The Department's regional offices are as follows:

Counties	Office Address and Telephone
Clackamas, Clatsop, Columbia, Multnomah, Tillamook, and Washington	Department of Environmental Quality Portland Office 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 Telephone: (503) 229-5554
Benton, Lincoln, Linn, Marion, Polk, and Yamhill	Department of Environmental Quality Salem Office 750 Front Street NE, Suite 120 Salem, OR 97301-1039 Telephone: (503) 378-8240
Coos and Curry	Department of Environmental Quality Coos Bay Office 381 N Second Street Coos Bay, OR 97420-2270 Telephone: (541) 269-2721
Douglas, Jackson, and Josephine	Department of Environmental Quality Medford Office 221 W Stewart Avenue, Suite 201 Medford, OR 97501-3647 Telephone: (541) 776-6010
Crook, Deschutes, Harney, Hood River, Jefferson, Klamath, Lake, Sherman, Wasco, and Wheeler	Department of Environmental Quality Bend Office 475 NE Bellevue, Suite 110 Bend, OR 97701 Telephone: (541) 388-6146
Baker, Gilliam, Grant, Malheur, Morrow, Umatilla, Union, and Wallowa	Department of Environmental Quality Pendleton Office 700 SE Emigrant Avenue, Suite 330 Pendleton, OR 97801-2597 Telephone: (541) 276-4063

10.0 FEES

10.1. Annual Compliance Fee

The Annual Fee specified in OAR 340-216-0020, Table 2, Part 2 for a Fee Class Four General ACDP is due on December 1 of each year this permit is in effect. An invoice indicating the amount, as determined by Department regulations, will be mailed prior to the above date.

10.2. Change of

The non-technical permit modification fee specified in OAR 340-

- Ownership or Company Name Fee** 216-0020, Table 2, Part 3(a) is due with an application for changing the ownership or the name of the company.
- 10.3. Special Activity Fees** The special activity fees specified in OAR 340-216-0020, Table 2, Part 3 (b through i) are due with an application to modify the permit.
- 10.4. Where to Submit Fees** Fees must be submitted to:
Department of Environmental Quality
Business Office
811 SW Sixth Avenue
Portland, Oregon 97204-1390

11.0 GENERAL CONDITIONS AND DISCLAIMERS

- 11.1. Other Regulations** In addition to the specific requirements listed in this permit, the permittee must comply with all other legal requirements enforceable by the Department.
- 11.2. Conflicting Conditions** In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply.
- 11.3. Masking of Emissions** The permittee must not cause or permit the installation of any device or use any means designed to mask the emissions of an air contaminant that causes or is likely to cause detriment to health, safety, or welfare of any person or otherwise violate any other regulation or requirement.
- 11.4. Department Access** The permittee must allow the Department's representatives access to the plant site and pertinent records at all reasonable times for the purposes of performing inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant emissions discharge records and conducting all necessary functions related to this permit in accordance with ORS 468-095.
- 11.5. Permit Availability** The permittee must have a copy of the permit available at the facility at all times.
- 11.6. Open Burning** The permittee may not conduct any open burning except as allowed by OAR 340 Division 264.
- 11.7. Asbestos** The permittee must comply with the asbestos abatement requirements in OAR 340, Division 248 for all activities involving asbestos-containing materials, including, but not limit to, demolition, renovation, repair, construction, and maintenance.
- 11.8. Property Rights** The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor

does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

11.9. Termination, Revocation, or Modification

The Department may modify or revoke this permit pursuant to OAR 340-216-0082 and 340-216-0084.

12.0 EMISSION FACTORS

This section contains emission factors for both criteria pollutants and hazardous air pollutants (HAPs). Because many HAP emission factors remain under development, the emission factors provided in Condition 12 represent the best available data at the time of permit renewal. The use of HAP emission factors in Condition 12 do not guarantee that facilities will be in compliance with federal requirements for major sources of HAPs. Facilities should use the most reliable emission factors as they become available in the future, or provide emission source test results that demonstrate actual emissions for their specific emission unit.

12.1. Emission Factors (EF) for fuel usage

a. PM, PM10, SO2, NOX, CO and VOC

Fuel type	EF units	PM	PM ₁₀	SO ₂	NO _x	CO	VOC
Natural Gas	lb/million cubic feet	2.5	2.5	1.7	100	84	5.5
Propane	lb/1000 gallons	0.6	0.6	0.10S ⁽¹⁾	19	3.2	0.5
Butane	lb/1000 gallons	0.6	0.6	0.09S ⁽¹⁾	21	3.6	0.6
#1 distillate oil	lb/1000 gallons	3.3	1.7 ⁽²⁾	142S ⁽¹⁾	18	5	0.2 ⁽³⁾
#2 distillate oil	lb/1000 gallons	3.3	1.7 ⁽²⁾	142S ⁽¹⁾	20	5	0.2 ⁽³⁾
#4 residual oil	lb/1000 gallons	8.5	7.3 ⁽⁴⁾	150S ⁽¹⁾	20	5	0.2 ⁽³⁾
#5 & #6 residual oil	lb/1000 gallons	11.5	9.9 ⁽⁴⁾	157S ⁽¹⁾	55	5	0.28 ⁽³⁾
Wood	lb/1000 lb of steam	0.4 ⁽⁵⁾	0.2 ⁽⁵⁾	0.014	0.31	3.0	0.13
	lb/1000 lb of steam	0.4 ⁽⁵⁾	0.2 ⁽⁵⁾	0.014	0.31	2.0	0.13
	lb/1000 lb of steam	0.4 ⁽⁵⁾	0.2 ⁽⁵⁾	0.014	0.31	1.0	0.13

(1) The sulfur dioxide emission factor is based on the sulfur content of the fuel expressed as a percent by weight. For example, if the sulfur content of #1 distillate oil is 0.3%, the emission factor is 142 x 0.3 = 42.6 lb/1000 gallons of oil burned.

- (2) PM₁₀ is 50% of total PM. Total PM is the sum of filterable PM and condensible PM. [AP-42 tables 1.3-1, 1.3-2, and 1.3-6]
- (3) VOC reported as non-methane total organic carbon (NMTOC).
- (4) PM₁₀ is 86% of total PM. Total PM is the sum of filterable PM and condensible PM. [AP-42 tables 1.3-1, 1.3-2, and 1.3-5]
- (5) Emission factors for units with PM control devices can be determined using the procedures in Condition 12.2.

b. HAPS

Pollutant	Emission Factor lb/MMlbSteam ⁽¹⁾	Reference
Acrolein (single HAP)	4.40	AP-42; 9/03
Acetaldehyde (single HAP)	0.91	AP-42; 9/03
Methanol (single HAP)	0.91	NCASI TB 858; 2/03
Combined HAP	14.38	

(1) Assumes 1100 Btu per pound of steam

12.2. Wood fired units PM control efficiencies and PM₁₀ fractions:

Use the following information to make adjustments to the PM emission factors given in Condition 12.1 for wood-fired units. For example, the PM and PM₁₀ emission factors for a Dutch Oven boiler with a high pressure multiclone would be:

$$EF_{PM} = 0.40 \times (1 - 70\%/100) = 0.12 \text{ lb}/1000 \text{ lb of steam}$$

$$EF_{PM10} = 0.12 \times 95\%/100 = 0.11 \text{ lb}/1000 \text{ lb of steam}$$

Control Device	Estimated Efficiency (%)	PM ₁₀ Fraction (%)
Uncontrolled	NA	50
Multiclone (low pressure)	50	50
Multiclone (high pressure)	70	95
Wet scrubber (low pressure)	70	80
Wet scrubber (medium to high pressure)	80	95
Electrostatic precipitator (wet or dry)	95	100

12.3. Emission Factors for Cyclones and Target Boxes

Process Equipment	Type	Description	Units	PM (lb/BDT)	PM ₁₀ (lb/BDT)
Cyclone	Medium Efficiency	Dry & green chips, shavings, hogged	Bone Dry Tons (BDT)	0.5	0.25

	High Efficiency	fuel/bark, green sawdust		0.2	0.16
	Baghouse Control			0.001	0.001
	Medium Efficiency	Sander dust	Bone Dry Tons (BDT)	NA	NA
	High Efficiency			2.0	1.6
	Baghouse Control			0.04	0.04
Target Box	Medium Efficiency	Sander dust	Bone Dry Tons (BDT)	0.1	0.05

12.4. Emission Factors for Steam and Electric Heated Kilns (lb/1000 board feet)¹

Wood species	PM/PM ₁₀	VOC ⁽²⁾	Methanol (Single HAP)	Acetaldehyde (Single HAP)	Combined HAP
Ponderosa Pine	0.02 ⁽³⁾	1.7 ⁽⁴⁾	0.07 ⁽⁴⁾	0.113 ⁽⁹⁾	0.186
Lodgepole Pine	0.02 ⁽³⁾	1.3 ⁽⁴⁾	0.06 ⁽⁴⁾	0.113 ⁽⁹⁾	0.177
Douglas Fir	0.02 ⁽⁵⁾	0.6 ⁽⁶⁾	0.02 ⁽⁴⁾	0.057	0.078
White Fir	0.05 ⁽⁷⁾	0.33 ⁽⁴⁾	0.12 ⁽⁴⁾	0.113 ⁽⁹⁾	0.236
Hemlock	0.05 ⁽⁵⁾	0.39 ⁽⁸⁾	0.128 ⁽⁸⁾	0.113 ⁽¹⁰⁾	0.244

- (1) Use source specific data, if available
- (2) VOC emissions factors are based on propane, using the carbon based results from the cited studies and multiplying by 44/36.
- (3) No data, use Douglas Fir
- (4) Oregon State University (OSU) kiln study, 2000 (NCASI)
- (5) OSU kiln study, 1998 (WI)
- (6) University of Idaho kiln study, 1996 (NCASI), average of heart and sap results
- (7) No data, use Hemlock
- (8) Emissions from Western Hemlock lumber during drying, Milota & Mosher (2006)
- (9) No data, use Hemlock
- (10) Average of Rosboro and Hampton tests at OSU

12.5. Emission Factors for Surface Coating Operations

Consult manufacturer or Material Safety Data Sheet for required information needed to calculate emissions.

12.6. Emission Factor for Wood Preserving

Emissions device or activity	Pollutant	Emission Factor (EF)	Emission factor units
Treatment cycle without conditioning, uncontrolled	VOC	0.74	lb/1000ft ³ of wood treated
	Naphthalene (Single HAP)	0.0046	lb/1000ft ³ of wood treated
	Combined HAPs	0.0097	lb/1000ft ³ of wood treated
Treatment cycle with conditioning by Boulton process, uncontrolled	VOC	5.80	lb/1000ft ³ of wood treated
	Naphthalene (Single HAP)	0.079	lb/1000ft ³ of wood treated
	Combined HAPs	0.16	lb/1000ft ³ of wood treated

13.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

ACDP	Air Contaminant Discharge Permit	HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040
ASTM	American Society for Testing and Materials	I&M	inspection and maintenance
AQMA	Air Quality Maintenance Area	lb	pound(s)
calendar year	The 12-month period beginning January 1st and ending December 31st	Metal HAP	chromium, manganese, lead, nickel
CFR	Code of Federal Regulations	MMBtu	million British thermal units
CO	carbon monoxide	NA	not applicable
DEQ	Oregon Department of Environmental Quality	NESHAP	National Emissions Standards for Hazardous Air Pollutants
dscf	dry standard cubic foot	NO _x	nitrogen oxides
EPA	US Environmental Protection Agency	NSPS	New Source Performance Standard
FCAA	Federal Clean Air Act	NSR	New Source Review
gal	gallon(s)	O ₂	oxygen
gr/dscf	grains per dry standard cubic foot	OAR	Oregon Administrative Rules
		ORS	Oregon Revised Statutes
		O&M	operation and maintenance

Pb	lead	SER	Significant Emission Rate
PCD	pollution control device	SIC	Standard Industrial Code
PM	particulate matter	SIP	State Implementation Plan
PM ₁₀	particulate matter less than 10 microns in size	SO ₂	sulfur dioxide
ppm	part per million	Special Control Area	as defined in OAR 340-204-0070
PSD	Prevention of Significant Deterioration	VE	visible emissions
PSEL	Plant Site Emission Limit	VOC	volatile organic compound
PTE	Potential to Emit	year	A period consisting of any 12-consecutive calendar months
RACT	Reasonably Available Control Technology		
scf	standard cubic foot		

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