Simple

air contaminant discharge permit

Department of Environmental Quality

This permit is being issued in accordance with the provisions of ORS 468A.040 and

based on the land use compatibility findings included in the permit record.

|  |  |
| --- | --- |
| ISSUED TO:  <Company Legal Name>  <Mailing Address>  <City, State, Zip> | INFORMATION RELIED UPON:  Application No.: 0  Date Received: <mm/dd/yy> |
| PLANT SITE LOCATION:  <Site Address>  <City, State, Zip> | LAND USE COMPATIBILITY FINDING:  Approving Authority: <Name>  Approval Date: <mm/dd/yy> |
|  | PERMIT PREVIOUSLY ISSUED TO:  <Company legal name> |

**ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY**

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Air Quality Manager Dated

Source(s) Permitted to Discharge Air Contaminants (OAR 340-216-0020):

|  |  |  |
| --- | --- | --- |
| **Table 1 Code** | **Source Description** | **SIC** |
| Part B, <#> |  |  |
|  |  |  |

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# GENERAL emission standards AND LIMITS

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| Visible Emissions | The permittee must comply with the following visible emission limits, as applicable: |
|  | Emissions from any air contaminant source installed on or before June 1, 1970 must not equal or exceed 40% opacity for a period aggregating more than 3 minutes in any one hour. |
|  | Emissions from any air contaminant source installed, constructed, or modified after June 1, 1970 must not equal or exceed 20% opacity for a period aggregating more than 3 minutes in any one hour. |
|  | Emissions from any air contaminant source other than fuel burning equipment must not equal or exceed 20% opacity for a period aggregating more than 30 seconds in any one hour. |
| Particulate Matter Emissions | The permittee must comply with the following particulate matter emission limits, as applicable: |
|  | Particulate matter emissions from any fuel burning equipment installed on or before June 1, 1970 must not exceed 0.2 grains per standard cubic foot, corrected to 12% CO2 or 50% excess air. |
|  | Particulate matter emissions from any fuel burning equipment installed, constructed, or modified after June 1, 1970 must not exceed 0.1 grains per standard cubic foot, corrected to 12% CO2 or 50% excess air. |
|  | Particulate matter emissions from fuel burning equipment must not exceed: |
|  | 0.2 grains per dry standard cubic foot corrected to 12% CO2 when using wood residue in equipment that existed before April 7, 1978; |
|  | 0.1 grains per dry standard cubic foot corrected to 12% CO2 when using wood residue in equipment that did not exist before April 7, 1978; or |
|  | The emission rate shown in Figure 1 of OAR 340-208-0610 as a function of the maximum heat input when using all other fuels, except natural gas and LPG. |
|  | Particulate matter emissions from any air contaminant source installed on or before June 1, 1970 other than fuel burning equipment and fugitive emission sources must not exceed 0.2 grains per standard cubic foot. |
|  | Particulate matter emissions from any air contaminant source installed, constructed, or modified after June 1, 1970 other than fuel burning equipment and fugitive emission sources must not exceed 0.1 grains per standard cubic foot. |
|  | Non-fugitive particulate matter emissions from any process must not exceed the amount shown in Table 1 of OAR 340-226-0310 for the process weight allocated to such a process. |
| Fugitive Emissions | The permittee must take reasonable precautions to prevent fugitive dust emissions by: |
|  | Treating vehicular traffic areas of the plant site under the control of the permittee. |
|  | Operating all air contaminant-generating processes so that fugitive type dust associated with the operation will be adequately controlled at all times. |
|  | 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. |
| 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. DEQ will verify that the deposition exists and will notify the permittee that the deposition must be controlled. |
| 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 DEQ personnel. |
| 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. |
|  | Fuel oils must not contain more than: |
|  | 0.3% sulfur by weight for ASTM Grade 1 distillate oil; |
|  | 0.5% sulfur by weight for ASTM Grade 2 distillate oil; |
|  | 1.75% sulfur by weight for residual oil; |
|  | The permittee is allowed to use on-specification used oil as fuel which 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 each shipment of oil does not exceed the used oil specifications contained in 40 CFR Part 279.11, Table 1. |

# specific performance and emission standards

|  |  |
| --- | --- |
| Device/Process |  |
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# Operation and Maintenance Requirements

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| --- | --- |
| Work practices | <i.e., equipment tuning> |
| Fugitive Emissions Control Plan | While operating in the Medford-Ashland AQMA, the permittee must prepare and implement site-specific plans for the control of fugitive emissions in accordance with OAR 340-240-0180. While operating in the Lakeview Urban Growth Area (UGA), the permittee must prepare and implement site-specific plans for the control of fugitive emissions in accordance with OAR 340-240-0410. |
| O&M plan | While operating in the Medford-Ashland AQMA, the permittee must prepare and implement an operation and maintenance (O&M) plan in accordance with OAR 340-240-0190. While operating in the Lakeview UGA, the permittee must prepare and implement an O&M plan in accordance with OAR 340-240-0420. |

# plant site emission limits

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| --- | --- | --- | --- |
| Plant Site Emission Limits (PSEL) | The permittee must not cause or allow plant site emissions to exceed the following: | | |
| **Pollutant** | **Limit** | **Units** |
| PM | 24 | tons per year |
| PM10 | 14 | tons per year |
| PM2.5 | 9 | tons per year |
| SO2 | 39 | tons per year |
| NOX | 39 | tons per year |
| CO | 99 | tons per year |
| VOC | 39 | tons per year |
| GHGs (CO2e) | 74,000 | tons per year |
| Single HAP | 9 | tons per year |
| Combined HAPs | 24 | tons per year |
|  |  | | |
| 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** |
| PM10 | 4.5 | tons per year |
| 49 | pounds per day |
|  |  | | |
| Annual Period | The annual plant site emissions limits apply to any 12-consecutive calendar month period. | | |

# compliance demonstration

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| --- | --- |
| Testing Requirements | By no later than 18 months after startup of a new stationary source, the permittee must demonstrate <enter equipment identification> is capable of operating at its maximum operating capacity in compliance with Condition <enter condition number> by conducting a source test for <enter pollutant> emissions using the following test methods and procedures: |
|  | <enter test method> must be used for <enter pollutant> emissions; |
|  | <enter any special requirements such as sample times, sample volumes, filter temperatures, etc.> |
|  |  |
|  | The following parameters must be monitored and recorded during the source test: |
|  | visible emissions as measured by EPA Method 9 for a period of at least six minutes during or within 30 minutes before or after each test run; |
|  | process operating parameters; |
|  | pollution control device operating parameters; and |
|  | <other information> |
|  | All tests must be conducted in accordance with DEQ’s Source Sampling Manual and the approved pretest plan. The pretest plan must be submitted at least 15 days in advance and approved by the Regional Source Test Coordinator. Test data and results must be submitted for review to the Regional Source Test Coordinator within 30 days unless otherwise approved in the pretest plan. |
|  | Only regular operating staff may adjust the combustion system or production processes and emission control parameters during the source test and within two hours prior to the source test. Any operating adjustments made during the source test, which are a result of consultation with source testing personnel, equipment vendors or consultants, may render the source test invalid. |
| Monitoring Requirements | The permittee must monitor the operation and maintenance of the plant and associated air contaminant control devices as follows: |
|  | <enter source specific monitoring requirements, such as COMS or CEMS, special inspections, etc.> |
|  |  |
| PSEL Compliance Monitoring | Compliance with the PSEL is determined for each 12-consecutive calendar month period based on the following calculation for each pollutant except GHGs:  E = Σ(EF x P)/2000 lbs  where,  E = pollutant emissions (ton/yr);  EF = pollutant emission factor (see condition 13.0);  P = process production (see condition 14.0) |
| Emission Factors | The permittee must use the default emission factors provided in condition 13.0 for calculating pollutant emissions, unless alternative emission factors are approved in writing by DEQ. The permittee may request or DEQ 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 DEQ. |
| Mass Balance without controls | Annual VOC emissions for each 12 consecutive calendar month period are calculated by the following formula:  EVOC-A = [∑(CX \* DX \* KX) – W] x 1ton/2000 pounds  Where,  EVOC-A = Annual VOC emissions in tons  C = Material usage for the period in gallons  D = Material density in pounds per gallon  K = VOC concentration expressed as a decimal  X = Subscript X represents a specific material  W = Weight of VOC shipped offsite |
| Mass Balance with controls | Annual VOC emissions for each 12 consecutive calendar month period are calculated by the following formula:  EVOC-A = [(CX \* DX \* KX)] – Wx](1 – (CE \* DE) \* 1ton/2000 pounds  Where,  EVOC-A = Annual VOC emissions in tons  C = Material usage for the period in gallons  D = Material density in pounds per gallon  K = VOC concentration expressed as a decimal  X = Subscript X represents a specific material  CE = VOC capture efficiency expressed as a decimal  DE = Destruction efficiency  W = Weight of VOC shipped offsite |
| T-butyl acetate (TBAC) | TBAC is not a VOC for purposes of demonstrating compliance with the VOC Plant Site Emission Limit. However, TBAC emissions must be determined using the procedures in conditions 5.5 or 5.6, as appropriate, and reported separately in the annual report. |

# special conditions

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| Special conditions | <enter any special conditions> |

# compliance schedule

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| Compliance Schedule | The permittee must provide control for the <Enter name of equipment here> in accordance with the following schedule: |
|  | By no later than <Enter date here>, the permittee must submit a final control strategy, including detailed plans and specifications, to DEQ for review and approval. |
|  | By no later than <Enter date here>, the permittee must issue purchase orders for the major components of emission control equipment or process modification work. The permittee must notify DEQ in writing within seven days that the above has been accomplished. |
|  | By no later than <Enter date here>, the permittee must initiate the installation of the emission control equipment or process modifications. The permittee must notify DEQ in writing within seven days that the above has been accomplished. |
|  | By no later than <Enter date here>, the permittee must complete the installation of emission control equipment or process modifications. The permittee must notify DEQ in writing within seven days that the above has been accomplished. |
|  | By no later than <Enter date here>, the permittee must demonstrate that <Enter name of equipment here> is capable of operating at its maximum operating capacity compliance with condition <Enter condition here> by conducting a source test for <Enter pollutant emissions here>. The following parameters must be monitored and recorded during the source test: |
|  | Visible emissions; |
|  | Process operating parameters; |
|  | Pollution control device operating parameters; and |
|  | Enter other parameters here |
|  | All tests must be conducted in accordance with DEQ’s Source Sampling Manual and the approved pretest plan. The pretest plan must be submitted at least 15 days in advance and approved by the Regional Source Test Coordinator. Test data and results must be submitted for review to the Regional Source Test Coordinator within 30 days unless otherwise approved in the pretest plan. |
|  | Only regular operating staff may adjust the combustion system or production processes and emission control parameters during the source test and within two hours prior to the source test. Any operating adjustments made during the source test, which are a result of consultation with source testing personnel, equipment vendors or consultants, may render the source test invalid. |

# recordkeeping requirements

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| Operation and Maintenance | The permittee must maintain the following records related to the operation and maintenance of the plant and associated air contaminant control devices: |
|  | <enter any specific records (e.g., inspection logs, control device parameter data, etc.)> |
|  | <enter any other necessary records (e.g., QA/QC records for CEMS)> |
|  | <enter PSEL monitoring records (e.g., production data)> |
|  | <If used oil is used as fuel, 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.> |
| Excess Emissions | The permittee must maintain records of excess emissions as defined in OAR 340-214-0300 through 340-214-0340 (recorded on occurrence). Typically, excess emissions are caused by process upsets, startups, shutdowns, or scheduled maintenance. In many cases, excess emissions are evident when visible emissions are greater than 20% opacity for 3 minutes or more in any 60-minute period. If there is an ongoing excess emission caused by an upset or breakdown, the permittee must cease operation of the equipment or facility no later than 48 hours after the beginning of the excess emissions, unless continued operation is approved by DEQ in accordance with OAR 340-214-0330(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. |
| Retention of Records | Unless otherwise specified, the permittee must maintain all records on site for a period of two (2) years and made available to the Department upon request. |

# reporting requirements

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| Excess Emissions | The permittee must notify DEQ of excess emissions events if the excess emission is of a nature that could endanger public health. |
|  | Such notice must be provided as soon as possible, but never more than one hour after becoming aware of the problem. Notice must be made to the regional office identified in Condition 10.4 by e-mail, telephone, facsimile, or in person. |
|  | If the excess emissions occur during non-business hours, the permittee must notify the Department by calling the Oregon Emergency Response System (OERS). The current number is 1-800-452-0311. |
|  | The permittee must also submit follow-up reports when required by DEQ. |
| Monthly |  |
| Quarterly |  |
| Semi-annual |  |
| Annual Report | For each year this permit is in effect, the permittee must submit to the Department by **February 15** two (2) copies of the following information for the previous calendar year: |
|  | Operating parameters: |
|  |  |
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|  | A summary of annual pollutant emissions determined each month in accordance with Condition 5.0. |
|  | Records of all planned and unplanned excess emissions events. |
|  | Summary of complaints relating to air quality received by permittee during the year. |
|  | List permanent changes made in plant process, production levels, and pollution control equipment which affected air contaminant emissions. |
|  | List of major maintenance performed on pollution control equipment. |
| Greenhouse Gas Registration and Reporting | If the calendar year emission rate of greenhouse gases (CO2e) is greater than or equal to 2,756 tons (2,500 metric tons), the permittee must register and report its greenhouse gas emissions with DEQ in accordance with OAR 340-215. |
| Initial Startup Notice | The permittee must notify DEQ in writing of the date a new facility is started up. The notification must be submitted no later than seven (7) days after startup. |
| Relocation Notice | The permittee must not install or operate the facility or any portion of the facility at any new site without first providing written notice to the Permit Coordinator in the appropriate regional office. The written notice must include the date of the proposed move, approximate dates of operation, a detailed map showing access to the new site, and a description of the air pollution controls and procedures to be installed, operated, and practiced at the new site. Additional permits may be required if the permittee operates individual components of the facility at more than one site at a time. |
| Notice of Change of Ownership or Company Name | The permittee must notify DEQ in writing using a Departmental “Permit Application Form” within 60 days after the following: |
| Legal change of the name of the company as registered with the Corporations Division of the State of Oregon; or |
| Sale or exchange of the activity or facility. |
| Construction or Modification Notices | The permittee must notify DEQ in writing using a Departmental “Notice of Construction Form,” or “Permit Application Form,” and obtain approval in accordance with OAR 340-210-0205 through 340-210-0250 before: |
| Constructing, installing, or establishing a new stationary source that will cause an increase in any regulated pollutant emissions; |
| 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 |
| Constructing or modifying any air pollution control equipment. |
| Where to Send Reports and Notices | The reports, 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 10.3. |

# Administrative requirements

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| Permit Renewal Application | The permittee must submit the completed application package for renewal of this permit by <enter the first of the month date>. The permittee must submit two (2) copies of the application to the DEQ Permit Coordinator listed in condition 10.3 |
| Permit Modifications | The permittee must submit an application for a modification of this permit not less than **60** days prior to the source modification. A special activity fee must be submitted with an application for the permit modification. The fees and two (2) copies of the application must be submitted to the Business Office of the Department. |
| 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: |

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| **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 Drive, Suite 110  Bend, OR 97701-7415  Telephone: 541-633-2021 |
| Department Contacts | Information about air quality permits and DEQ’s regulations may be obtained online: 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. DEQ’s regional offices are as follows: | |

| **Counties** | **Office Address and Telephone** |
| --- | --- |
| Clackamas, Clatsop, Columbia, Multnomah, Tillamook, and Washington | Department of Environmental Quality  Portland and Gresham Offices  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: 503-378-5305 |
| Coos, Curry, and Western Douglas | Department of Environmental Quality  Coos Bay Office  340 N Front Street  Coos Bay, OR 97420-2325  Telephone: 541-269-2721 |
| Eastern Douglas, Jackson, and Josephine | Department of Environmental Quality  Medford Office  221 Stewart Ave., Suite 201  Medford, OR 97501  Telephone: 541-776-6010 |
| Crook, Deschutes, Harney, Hood River, Jefferson, Klamath, Lake, Sherman, Wasco, and Wheeler | Department of Environmental Quality  Eastern Region  475 NE Bellevue Drive, Suite 110  Bend, OR 97701-7415  Telephone: 541-633-2021 |
| 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 |

# fees

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| Annual Compliance Fee | The permittee must pay the Annual Fee specified in OAR 340-216-0020, Table 2, Part 2 for a Simple ACDP by **December 1** of each year this permit is in effect. An invoice indicating the amount, as determined by DEQ regulations, will be mailed prior to the above date. **Late fees in accordance with Part 4 of the table will be assessed as appropriate.** |
| Change of Ownership or Company Name Fee | The non-technical permit modification fee specified in OAR 340-216-0020, Table 2, Part 3(a) is due with an application for changing the ownership or the name of the company. |
| 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. |
| Where to Submit Fees | The permittee must submit fees to:  Department of Environmental Quality  Business Office  811 SW Sixth Avenue  Portland, Oregon 97204-1390 |

# general conditions and disclaimers

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| --- | --- |
| Permitted Activities | This permit allows the permittee 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, or is revoked. |
| Other Regulations | In addition to the specific requirements listed in this permit, the permittee must comply with all other legal requirements enforceable by DEQ. |
| Conflicting Conditions | In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply. |
| 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. |
| Department Access | The permittee must allow DEQ’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. |
| Permit Availability | The permittee must have a copy of the permit available at the facility at all times. |
| Open Burning | The permittee may not conduct any open burning except as allowed by OAR 340 Division 264. |
| 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. |
| 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. |
| Permit Expiration | A source may not be operated after the expiration date of the permit, unless any of the following occur prior to the expiration date of the permit:a timely and complete application for renewal or for an Oregon Title V Operating Permit has been submitted, oranother type of permit (ACDP or Oregon Title V Operating Permit) has been issued authorizing operation of the source.For a source operating under an ACDP or Oregon Title V Operating Permit, a requirement established in an earlier ACDP remains in effect notwithstanding expiration of the ACDP, unless the provision expires by its terms or unless the provision is modified or terminated according to the procedures used to establish the requirement initially. |
| Permit Termination, Revocation, or Modification | DEQ may modify or revoke this permit pursuant to OAR 340-216-0082 and 340-216-0084. |

# Emission Factors

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| --- | --- | --- | --- | --- |
| **Emissions device or activity** | **Pollutant** | **Emission Factor (EF)** | **EF units** | **EF reference** |
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# Process/Production Records

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| --- | --- | --- |
| **Emissions device or activity** | **Process or production parameter** | **Frequency** |
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# Abbreviations, acronyms, and definitions

|  |  |
| --- | --- |
| ACDP | Air Contaminant Discharge Permit |
| ASTM | American Society for Testing and Materials |
| AQMA | Air Quality Maintenance Area |
| calendar year | The 12-month period beginning January 1st and ending December 31st |
| CFR | Code of Federal Regulations |
| CO  CO2e | carbon monoxide  carbon dioxide equivalent |
| DEQ | Oregon Department of Environmental Quality |
| dscf | dry standard cubic foot |
| EPA | US Environmental Protection Agency |
| FCAA | Federal Clean Air Act |
| Gal  GHG | gallon(s)  greenhouse gas |
| gr/dscf | grains per dry standard cubic foot |
| HAP | Hazardous Air Pollutant as defined by OAR 340-244-0040 |
| I&M | inspection and maintenance |
| lb | pound(s) |
| MMBtu | million British thermal units |
| NA | not applicable |
| NESHAP | National Emissions Standards for Hazardous Air Pollutants |
| NOX | nitrogen oxides |
| NSPS | New Source Performance Standard |
| NSR | New Source Review |
| O2 | oxygen |
| OAR | Oregon Administrative Rules |
| ORS | Oregon Revised Statutes |
| O&M | operation and maintenance |
| Pb | lead |
| PCD | pollution control device |
| PM | particulate matter |
| PM10  PM2.5 | particulate matter less than 10 microns in size  particulate matter less than 2.5 microns in size |
| ppm | part per million |
| PSD | Prevention of Significant Deterioration |
| PSEL | Plant Site Emission Limit |
| PTE | Potential to Emit |
| RACT | Reasonably Available Control Technology |
| scf | standard cubic foot |
| SER | Significant Emission Rate |
| SIC | Standard Industrial Code |
| SIP | State Implementation Plan |
| SO2 | sulfur dioxide |
| Special Control Area | as defined in OAR 340-204-0070 |
| VE | visible emissions |
| VOC | volatile organic compound |
| year | A period consisting of any 12- consecutive calendar months |