

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 October 17, 2007 for the following source category:

Asphaltic concrete paving plant, stationary or portable, and associated material handling activities such as storage piles, conveyors, and vehicle traffic. Other equipment may include electric power generators with internal combustion engines. SIC 2951

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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 hot-mix asphalt pavement production listed on the cover page of this permit, including supporting activities.
 - 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 if the permittee no longer meets the requirements of OAR 340-216-0060 and the conditions of this 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air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, revoked or rescinded as long as conditions of this permit are complied with.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 Standard Permit or additional General ACDPs, 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 Pollution Authority 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 EMISSION STANDARDS AND LIMITS

- 2.1 Visible Emissions The permittee must comply with the following visible emission limits, as applicable:
- a. Emissions from an “existing” air contaminant source (one installed, constructed or modified on or before June 1, 1970), that is not located in a special control area must not equal or exceed 40% opacity for a period aggregating more than 3 minutes in any one hour.
 - b. Emissions from any air contaminant source installed, constructed, or modified after June 1, 1970 or an existing source located in a special control area must not equal or exceed 20% opacity for a period aggregating more than 3 minutes in any one hour.
 - c. In Clackamas, Columbia, Multnomah, or Washington Counties, 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.
- 2.2 Particulate Matter Emissions The permittee must comply with the following particulate matter emission limits, as applicable:
- a. Particulate matter emissions from any air contaminant source, other than fugitive emission sources, installed on or before June 1, 1970, must not exceed 0.2 grains per dry standard cubic foot as measured by DEQ Method 5.
 - b. Particulate matter emissions from any air contaminant source, other than fugitive emission sources, installed after June 1, 1970, must not exceed 0.1 grains per dry standard cubic foot as measured by DEQ Method 5.
 - c. No hot-mix asphalt plant for which construction, modification, or reconstruction was commenced after June 11, 1973 (for definitions of construction, modification, reconstruction and/or commenced see 40 CFR Part 60, Subpart A), may emit particulate matter in excess of 0.04 grains per dry standard cubic foot, as measured by EPA Method 5.

- d. The permittee must not operate any hot-mix asphalt plant, either portable or stationary, located within any area of the state outside of special control areas unless all dusts and gaseous effluents generated by the plant are subjected to air cleaning device or devices having a particulate collection efficiency of at least 80% by weight.
- e. The permittee must not operate the hot-mix asphalt plant within any special control area of the state without installing and operating systems or processes for the control of particulate emissions so as to comply with the emission limits established by the process weight table for asphalt plants, Table 1 (OAR 340-236-0410), included as Condition 12.0.

Note: As used in Conditions d. and e., “special control area” means:

- Any area designated in OAR 340-204-0070;
- Any incorporated city or within six miles of the city limits of said incorporated city;
- Any area of the state within one mile of any structure or building used for a residence; and
- Any area of the state within 2 miles straight line distance or air miles of any paved public road, highway, or freeway having a total of 2 or more traffic lanes.

2.3 Fugitive Emissions

The permittee must comply with the following:

- a. Ancillary air contamination sources from the plant and its facilities which emit air contaminants into the atmosphere such as, but not limited to, the dryer openings, screening and classifying system, hot rock elevator, bins, hoppers, and pug mill mixer, must be controlled at all times so as to maintain the highest possible level of air quality and the lowest possible discharge of air contaminants.
- b. The handling of aggregate and traffic must be conducted at all times so as to minimize emissions into the atmosphere by:
 - i. Controlling vehicle speeds on unpaved roadways.
 - ii. Treating vehicular traffic areas of the plant site under the control of the permittee.
 - iii. [This is already covered in a.]
 - iv. Treating storage piles, as necessary.

- v. Prompt removal of “tracked-out” material from paved areas.
 - vi. 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.
- 2.4 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.
- 2.5 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.
- 2.6 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.
- 2.7 Recycled Asphalt Product (RAP)
If, during the term of this permit, the permittee intends to use recycled asphalt product (RAP) as a component of hot- mix production, the permittee must first notify the Department and obtain approval. Prior to approval, the Department may require tests be performed to demonstrate compliance with the emission limits while running the maximum projected RAP percentage. The amount of RAP may not exceed the amount approved by the Department.

3.0 OPERATION AND MAINTENANCE REQUIREMENTS

- 3.1 Work practices The permittee must tune the burner of the asphalt plant using the procedures described in Condition 13.0 at the following minimum frequencies:
- a. All asphalt burners must be tuned at least once within one year of being assigned to this General Permit; and
 - b. At least once every year when the total asphalt production exceeds 75,000 tons for the previous calendar year.
 - c. Tuning is not required during any year that a source test is performed in accordance with Condition 5.1.
- 3.2 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.
- 3.3 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.

4.0 PLANT SITE EMISSION LIMITS

- 4.1 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

4.2 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

4.3 Annual Period

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

5.0 COMPLIANCE DEMONSTRATION

5.1 Testing Requirements

The permittee must demonstrate that the asphalt plant is capable of operating at its normal maximum operating capacity in compliance with the applicable limit(s) in Condition 2.2 by conducting a source test for particulate matter (PM) emissions using the test procedure described in Condition 14.0 at the following minimum frequencies:

- a. **New Plants or Existing Plants beginning operations in Oregon:** If the facility assigned to this permit is a new plant or an existing plant that will begin operations in Oregon for the first time, the test must be performed within 60 days of achieving the maximum production rate at which the asphalt plant will be operated, but not later than 180 days after initial startup.
- b. Existing Plants:
 - i. All plants must be tested at least once within 10 years of being assigned to this General Permit if a test was performed that demonstrated compliance with the applicable limit(s) in Condition 2.2 within 5 years prior to being assigned to this permit.
 - ii. For plants that do not meet Condition 5.1b.i, the test must be performed within 5 years after being assigned to this permit.

- iii. If, during the permit period, the permittee replaces the Asphalt Plant's primary control device or the Asphalt Plant in its entirety (per Condition 7.7), the permittee must perform a source test within 60 days of achieving the maximum production rate at which the asphalt plant will be operated, but not later than 180 days after initial startup of the modified or new plant.

5.2 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 2.6 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.

5.3 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 (ton/yr);

EF = pollutant emission factor (see Condition 5.4);

P = process production (tons of hot-mix asphalt produced and 1000 gallons of fuel oil burned for the generators)

Note: In all areas of the state other than the Medford/Ashland AQMA, emission calculations are only required if the hot-mix asphalt production during any 12-consecutive calendar month period exceeds the levels in Condition 15.1. In the Medford/Ashland AQMA, PM₁₀ emissions must always be calculated by the 15th of each month for the previous 12-consecutive calendar month period and other pollutant emissions calculations are only required if the hot-mix asphalt production during any 12-consecutive calendar month period exceeds levels in Condition 15.2.

5.4 Emission Factors
The permittee must use the default emission factors provided in Condition 16.0 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.

- 5.5 Medford/Ashland AQMA If the source is located in the Medford/Ashland AQMA, the permittee must also maintain records of the daily asphalt production and calculate the daily maximum emissions for the reporting period.

6.0 RECORDKEEPING REQUIREMENTS

- 6.1 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:

Monitored Parameter	Frequency
Certificate of analysis for used oil fuel demonstrating that fuel is on-specification	Per shipment or batch
Type and quantity of fuels used for the asphalt plant	Monthly
Type and quantity of fuels used for the generator, if applicable	Monthly
Fuel oil sulfur content	Per shipment
Total hot-mix produced	Monthly
Total hot-mix asphalt produced within the Medford-Ashland AQMA	Daily – totaled monthly
12-calendar month rolling summation of monthly asphalt production	Monthly
12-calendar month rolling summation of monthly asphalt production that occurred within the Medford-Ashland AQMA	Monthly – as required*
All operating and production parameters to be reported to the Department annually as required in Condition 7.3	As Required
A record of any maintenance to the air contaminant control system	Each Occurrence

*Calculation to be performed at the completion of each month in which hot-mix production occurred within the Medford-Ashland AQMA

- 6.2 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.

- 6.3 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.
- 6.4 Retention of Records Unless otherwise specified, all records must be maintained on site for a period of two (2) years and made available to the Department upon request.

7.0 REPORTING REQUIREMENTS

- 7.1 Excess Emissions The permittee must notify the Department by telephone or in person of any excess emissions which are of a nature that could endanger public health.
- a. 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 8.3.
 - b. 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.
 - c. The permittee must also submit follow-up reports when required by the Department.
- 7.2 Burner Tuning The permittee must report the results of any tune-ups performed during a year by July 15th.
- 7.3 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. Operating parameters:
 - i. Type and quantity of fuels used for the asphalt plant.

- ii. Type and quantity of fuels used for the generator, if applicable.
 - iii. Total hot-mix asphalt produced during the previous calendar year.
 - iv. Total hot-mix asphalt produced within the Medford-Ashland AQMA for the previous calendar year, if applicable.
 - v. Highest daily hot-mix production rate that occurred within the Medford-Ashland AQMA during the previous calendar year.
 - vi. A calculation of annual emissions to demonstrate compliance with the PSELs stated in Condition 4.0 (see compliance determination method in Condition 5.3), if the hot-mix asphalt production levels are greater than the amounts shown in Condition 15.0. Sources located in the Medford/Ashland AQMA must calculate emissions during any 12-consecutive calendar month period.
 - vii. Highest RAP percentage in any hot-mix formula during the previous calendar year.
- b. Records of all planned and unplanned excess emissions events.
 - c. Summary of complaints relating to air quality received by permittee during the year.
 - d. List permanent changes made in plant process, production levels, and pollution control equipment which affected air contaminant emissions.
 - e. List major maintenance performed on pollution control equipment.
- 7.4 Initial Startup Notice
- The permittee must notify the Department in writing of the date a new facility is started up. The notification must be submitted no later than seven (7) days after startup.
- 7.5 Portable Plants - Relocation Notice
- If the facility is portable, 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.
- 7.6 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.
- 7.7 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 in accordance with OAR 340-210-0205 through 340-210-0250 before:
- a. Constructing or installing any new source of air contaminant emissions, including air pollution control equipment;
 - b. Modifying or altering an existing source that may significantly affect the emission of air contaminants;
 - c. Making any physical change which increases emissions;
 - d. Changing the method of operation, the process, or the fuel use, or increasing the normal hours of operation that result in increased emissions; or
 - e. Relocating an existing stationary source or any portion of an existing stationary source.
- 7.8 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 8.2. For portable sources, the reports must be sent to the DEQ regional office located nearest to the company's office of record.
- 7.9 NSPS Notifications The permittee must provide the following notifications to the U.S. EPA for any new asphalt plant or any existing asphalt plant that becomes subject to 40 CFR Part 60, Subpart I, Federal Standards of Performance for Hot-mix Asphalt Plants:
- a. The actual date of initial plant startup, postmarked within 15 days after such date.
 - b. Notification of any physical or operational changes to an "existing" facility which increase the emission rate of particulate matter, postmarked 60 days or as soon as practicable before the change is commenced.
 - c. The scheduled date of the required source test and opacity

observations, postmarked not less than 30 days prior to such date.

- d. A written report of the source test results.
- e. The notifications listed above must be submitted to EPA at the following address:

Director
 Air and Waste Management Program
 U.S. Environmental Protection Agency
 Mail Stop OAQ-107
 1200 Sixth Avenue
 Seattle, WA 98101-3188

8.0 ADMINISTRATIVE REQUIREMENTS

- 8.1 Reassignment to the General ACDP 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. If the Department is delinquent in renewing the permit, the existing permit will remain in effect and the permittee must comply with the conditions of the permit until such time that the permit is reissued and the source is reassigned to the permit.
 - b. 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 the Department takes final action on the Simple or Standard ACDP application.
 - c. If a complete application for reassignment to the General ACDP or Simple or Standard ACDP is filed with the Department in a timely manner, the permit will not be deemed to expire until final action has been taken on the application.
- 8.2 Permit Coordinator Addresses All reports, notices, and applications should be directed to the Permit Coordinator (or for portable sources, reports must be sent to the DEQ regional office located nearest to the company's office of record) for the area where the source is located. The Permit Coordinator addresses are as follows:

Counties	Permit Coordinator Address and Telephone
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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) 378-8240
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 Dr., Suite 110 Bend, OR 97701 Telephone: (541) 633-2021

- 8.3 Department Contacts Information about air quality permits and the Department's regulations may be obtained from the DEQ web page at www.deq.state.or.us. 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) 229-5582
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

Counties	Office Address and Telephone
Crook, Deschutes, Harney, Hood River, Jefferson, Klamath, Lake, Sherman, Wasco, and Wheeler	Department of Environmental Quality Bend Office 475 NE Bellevue Dr., #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

9.0 FEES

- 9.1 Annual Compliance Fee The Annual Compliance Determination Fee specified in OAR 340-216-0090, Table 2, Part 2(c) for a Class Three 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.
- 9.2 Change of Ownership or Company Name Fee The non-technical permit modification fee specified in OAR 340-216-0090, Table 2, Part 3(a) is due with an application for changing the ownership or the name of the company of a source assigned to this permit.
- 9.3 Where to Submit Fees Fees must be submitted to:
Department of Environmental Quality
Business Office
811 SW Sixth Avenue
Portland, Oregon 97204-1390

10.0 GENERAL CONDITIONS AND DISCLAIMERS

- 10.1 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.
- 10.2 Conflicting Conditions In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply.
- 10.3 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.
- 10.4 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.
- 10.5 Permit Availability The permittee must have a copy of the permit available at the facility at all times.
- 10.6 Open Burning The permittee may not conduct any open burning except as allowed by OAR 340 Division 264.
- 10.7 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.
- 10.8 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.
- 10.9 Termination, Revocation, or Modification The Commission may modify or revoke this permit pursuant to OAR 340-216-0060(3) and (4).

11.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

ACDP	Air Contaminant Discharge Permit	NSR	New Source Review
ASTM	American Society for Testing and Materials	O ₂	oxygen
AQMA	Air Quality Maintenance Area	OAR	Oregon Administrative Rules
bbl	barrel (42 gal)	ORS	Oregon Revised Statutes
calendar year	The 12-month period beginning January 1st and ending December 31st	O&M	operation and maintenance
CFR	Code of Federal Regulations	Pb	lead
CO	carbon monoxide	PCD	pollution control device
date	mm/dd/yy	PM	particulate matter
DEQ	Oregon Department of Environmental Quality	PM ₁₀	particulate matter less than 10 microns in size
dscf	dry standard cubic foot	ppm	part per million
EPA	US Environmental Protection Agency	ppmv	part per million by volume
FCAA	Federal Clean Air Act	PSD	Prevention of Significant Deterioration
gal	gallon(s)	PSEL	Plant Site Emission Limit
gr/dscf	grains per dry standard cubic foot	PTE	Potential to Emit
HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040	RACT	Reasonably Available Control Technology
ID	identification number	scf	standard cubic foot
I&M	inspection and maintenance	SER	Significant Emission Rate
lb	pound(s)	SERP	Source Emission Reduction Plan
MMBtu	million British thermal units	SIC	Standard Industrial Code
NA	not applicable	SIP	State Implementation Plan
NESHAP	National Emissions Standards for Hazardous Air Pollutants	SO ₂	sulfur dioxide
NO _x	nitrogen oxides	Special Control Area	as defined in OAR 204-0070
NSPS	New Source Performance Standard	VE	visible emissions
		VOC	volatile organic compound
		year	A period consisting of any 12-consecutive calendar months

12.0 PROCESS WEIGHT EMISSION LIMITS

Process Weight/hr (lbs.)	Maximum Weight Discharge/hr (lbs.)
50	0.24
100	0.46
150	0.66
200	0.85
250	1.03
300	1.20
350	1.35
400	1.50
450	1.63
500	1.77
550	1.89
600	2.01
650	2.12
700	2.24
750	2.34
800	2.43
850	2.53
900	2.62
950	2.72
1,000	2.80
1,100	2.97
1,200	3.12
1,300	3.26
1,400	3.40
1,500	3.54
1,600	3.66
1,700	3.79
1,800	3.91
1,900	4.03
2,000	4.14
2,100	4.24
2,200	4.34
2,300	4.44
2,400	4.54
2,500	4.64
2,600	4.74

Process Weight/hr (lbs.)	Maximum Weight Discharge/hr (lbs.)
2,700	4.84
2,800	4.92
2,900	5.02
3,000	5.10
3,100	5.18
3,200	5.27
3,300	5.36
3,400	5.44
3,500	5.52
3,600	5.61
3,700	5.69
3,800	5.77
3,900	5.85
4,000	5.93
4,100	6.01
4,200	6.08
4,300	6.15
4,400	6.22
4,500	6.30
4,600	6.37
4,700	6.45
4,800	6.52
4,900	6.60
5,000	6.67
5,500	7.03
6,000	7.37
6,500	7.71
7,000	8.05
7,500	8.39
8,000	8.71
8,500	9.03
9,000	9.36
9,500	9.67
10,000	10.00
11,000	10.63
12,000	11.28

Process Weight/hr (lbs.)	Maximum Weight Discharge/hr (lbs.)
13,000	11.89
14,000	12.50
15,000	13.13
16,000	13.74
17,000	14.36
18,000	14.97
19,000	15.58
20,000	16.19
30,000	22.22
40,000	28.3
50,000	34.3
60,000 or more	40.0

13.0 BURNER TUNING PROCEDURES

- 13.1 During any year in which burner tuning is required by Condition 3.1, the tuning must be completed and a report submitted to the Department by July 15th.
- 13.2 Burner tuning must be performed by a qualified person after the plant is sufficiently warmed up and while the plant is operating within 10% of the normal maximum operating capacity. Normal maximum operating capacity is the plant's maximum operating capacity or the maximum rate which the permittee expects to achieve within the term of the Air Contaminant Discharge Permit.
- 13.3 The permittee must maintain records that demonstrate that the burner is properly tuned. At a minimum, the following information must be recorded and reported to the Department:
- a. Exhaust gas flow rate (if available);
 - b. Carbon monoxide concentrations (ppm) – specify whether on a wet or dry basis;
 - c. Oxygen concentration (%) – specify whether on a wet or dry basis;
 - d. Stack exhaust gas temperature;
 - e. Asphalt production rate in tons/hr;
 - f. Asphalt mix temperature;
 - g. % asphalt oil in mix;
 - h. RAP content as a percent of mix production; and
 - i. Fuel usage in units of gallons per ton of asphalt produced.

Note: It is not necessary to measure the carbon monoxide and oxygen concentrations in accordance with reference test methods because the burner tuning is not an official compliance source test. Carbon monoxide and oxygen concentrations may be measured using combustion gas analyzers calibrated in accordance with the manufacturer's instructions. Sufficient data must be recorded that shows that the burner is properly tuned. Carbon monoxide and oxygen must be measured at the same location (e.g., drum outlet or stack) on either a dry or wet basis.

14.0 SOURCE TEST PROCEDURES

- 14.1 Source tests must be performed while the plant is operating within 10% of its normal maximum operating capacity. Normal maximum operating capacity is the plant's maximum operating capacity or the maximum rate which the permittee expects to achieve within the term of the Air Contaminant Discharge Permit.
- 14.2 Stack emissions must be tested for particulate matter using EPA Methods 1-5 and Oregon Method 5. Unless otherwise approved in the source test plan, each test must be a minimum of 60 minutes and collect at least 31.8 dry standard cubic feet of sample.
- 14.3 The following parameters must be monitored and recorded during the source test:
- a. Stack gas oxygen concentration (% on a dry basis);
 - b. Visible emissions (VE) as measured by EPA Method 9. VE must be monitored for a period of at least six (6) minutes during or within 30 minutes before or after each test run;
 - c. NO_x emissions (ppm, dry basis) as measured by EPA Method 7E;
 - d. CO emissions (ppm, dry basis) as measured by EPA Method 10 (note: Method 10 must be modified to include improved quality assurance procedures of Method 6C - contact Department's Regional Source Test Coordinator for details);
 - e. Asphalt production rate in tons/hr;
 - f. The asphalt mix temperature;
 - g. % asphalt oil in mix;
 - h. RAP content as a percent of mix production;
 - i. Fuel usage in units of gallons per ton of asphalt produced;
 - j. The pressure drop across the control device;
 - k. Water pressure at the inlet to the scrubber (for plants controlled by a wet scrubber); and
 - l. Other parameters determined at the time of the test plan review.
- 14.4 All tests must be conducted in accordance with the Department's Source Sampling Manual and with the pretest plan 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 45 days unless otherwise approved in the pretest plan.
- 14.5 Only regular operating staff may adjust the combustion system or production processes and emission control parameters during the source test and within 2 hours prior to the tests. Any operating adjustments made during the source test which are a result of consultation during the tests with source testing personnel equipment vendors or consultants may render the source test invalid.

15.0 ALTERNATIVE PRODUCTION LIMITS FOR DETERMINING COMPLIANCE WITH THE PSEL

- 15.1 Operational limitation – Statewide, except Medford/Ashland AQMA. The permittee does not have to do emission calculations if the production/operational limitations during any 12-consecutive month period are below the levels shown below (as applicable):

Plant Operational Description	Maximum 12-month asphalt production/generator fuel usage			
	0 gal fuel oil	25,000 gal oil	50,000 gal oil	75,000 gal oil
Batch Plant – natural gas-fired w/baghouse	800,000 tons/yr	800,000 tons/yr	800,000 tons/yr	800,000 tons/yr
Batch Plant – natural gas-fired w/scrubber	340,000 tons/yr	335,000 tons/yr	327,000 tons/yr	320,000 tons/yr
Batch Plant – oil-fired w/baghouse	650,000 tons/yr	523,000 tons/yr	398,000 tons/yr	273,000 tons/yr
Batch Plant – oil-fired w/scrubber	340,000 tons/yr	340,000 tons/yr	340,000 tons/yr	273,000 tons/yr
Drum Plant – natural gas-fired w/baghouse	800,000 tons/yr	800,000 tons/yr	800,000 tons/yr	800,000 tons/yr
Drum Plant – natural gas-fired w/scrubber	800,000 tons/yr	800,000 tons/yr	800,000 tons/yr	800,000 tons/yr
Drum Plant – oil-fired w/baghouse	800,000 tons/yr	800,000 tons/yr	800,000 tons/yr	800,000 tons/yr
Drum Plant – oil-fired w/scrubber	800,000 tons/yr	800,000 tons/yr	800,000 tons/yr	800,000 tons/yr

15.2 Operational limitation, Medford-Ashland AQMA

The permittee is not required to calculate emissions if the production/operational limitations within the Medford-Ashland AQMA during any 12-consecutive month period are below the levels shown below (as applicable):

Plant Operational Description	Maximum 12-month asphalt production/generator fuel usage			
	0 gal fuel oil	25,000 gal oil	50,000 gal oil	75,000 gal oil
Batch Plant – natural gas-fired w/baghouse	362,000 tons/yr	323,000 tons/yr	281,000 tons/yr	244,000 tons/yr
Batch Plant – natural gas-fired w/scrubber	288,000 tons/yr	257,000 tons/yr	223,000 tons/yr	194,000 tons/yr
Batch Plant – oil-fired w/baghouse	362,000 tons/yr	323,000 tons/yr	281,000 tons/yr	244,000 tons/yr
Batch Plant – oil-fired w/scrubber	288,000 tons/yr	257,000 tons/yr	223,000 tons/yr	194,000 tons/yr
Drum Plant – natural gas-fired w/baghouse	426,000 tons/yr	380,000 tons/yr	330,000 tons/yr	287,000 tons/yr
Drum Plant – natural gas-fired w/scrubber	362,000 tons/yr	323,000 tons/yr	281,000 tons/yr	244,000 tons/yr
Drum Plant – oil-fired w/baghouse	426,000 tons/yr	380,000 tons/yr	330,000 tons/yr	287,000 tons/yr
Drum Plant – oil-fired w/scrubber	362,000 tons/yr	323,000 tons/yr	281,000 tons/yr	244,000 tons/yr

16.0 EMISSION FACTORS

Emissions device type or activity	Pollutant	Emission Factor (EF) ¹	Emission factor units
Batch Plant – natural gas fired	PM – w/baghouse	0.042	lb/ton of production
	PM ₁₀ – w/baghouse	0.027	lb/ton of production
	PM – w/scrubber	0.14	lb/ton of production
	PM ₁₀ – w/scrubber	0.034	lb/ton of production
	SO ₂	0.0046	lb/ton of production
	NO _x	0.025	lb/ton of production
	CO	0.14	lb/ton of production
	VOC	0.0082	lb/ton of production
Batch Plant – oil fired	PM – w/baghouse	0.042	lb/ton of production
	PM ₁₀ – w/baghouse	0.027	lb/ton of production
	PM – w/scrubber	0.14	lb/ton of production
	PM ₁₀ – w/scrubber	0.034	lb/ton of production
	SO ₂	0.088	lb/ton of production
	NO _x	0.12	lb/ton of production
	CO	0.14	lb/ton of production
	VOC	0.0082	lb/ton of production
Drum Plant – natural gas fired	PM – w/baghouse	0.033	lb/ton of production
	PM ₁₀ – w/baghouse	0.023	lb/ton of production
	PM – w/scrubber	0.045	lb/ton of production
	PM ₁₀ – w/scrubber	0.027	lb/ton of production
	SO ₂	0.0034	lb/ton of production
	NO _x	0.026	lb/ton of production
	CO	0.07	lb/ton of production
	VOC	0.032	lb/ton of production

¹ AP-42 section 11.1

Emission Factors, continued

Emissions device type or activity	Pollutant	Emission Factor (EF)	Emission factor units
Drum Plant – oil fired	PM – w/baghouse	0.033	lb/ton of production
	PM ₁₀ – w/baghouse	0.023	lb/ton of production
	PM – w/scrubber	0.045	lb/ton of production
	PM ₁₀ – w/scrubber	0.027	lb/ton of production
	SO ₂	0.011	lb/ton of production
	NO _x	0.055	lb/ton of production
	CO	0.07	lb/ton of production
	VOC	0.032	lb/ton of production
Generator(s) (oil-fired)	PM/PM ₁₀	42.5	lb/1000 gallon of fuel burned
	SO ₂	39.7	lb/1000 gallon of fuel burned
	NO _x	604	lb/1000 gallon of fuel burned
	CO	130	lb/1000 gallon of fuel burned
	VOC	49.3	lb/1000 gallon of fuel burned
Generator(s) (natural gas, propane, and butane-fired)	PM/PM ₁₀	10	lb/million cubic feet of NG burned
	SO ₂	0.6	lb/million cubic feet of NG burned
	NO _x	2840	lb/million cubic feet of NG burned
	CO	399	lb/million cubic feet of NG burned
	VOC	116	lb/million cubic feet of NG burned

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