

**OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
OREGON TITLE V OPERATING PERMIT**

**Northwest Region
2020 SW 4th, Suite 400
Portland, OR 97201
Telephone: (503) 229-5263**

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:

Owens Corning Fiberglass Corporation
11910 N.W. St. Helens Road
Portland, OR 97231

INFORMATION RELIED UPON:

Application Number: 021690
Received: 11/30/2005
NC Application Received: 05/22/2006

PLANT SITE LOCATION:

11910 N.W. St. Helens Road
Portland, OR 97231

LAND USE COMPATIBILITY STATEMENT:

From: City of Portland
Dated: 03/10/95

ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY

Cory Ann Wind, NWR AQ Manager

Date

Nature of Business: Manufacturer of Asphalt and Asphaltic Mixture for Roofing and Paving

Primary SIC: 2951

Other SIC: 2952

RESPONSIBLE OFFICIAL:

Name: Mr. Frank Burg
Title: Plant Leader

FACILITY CONTACT PERSON:

Name: Mr. Frank Burg
Title: Plant Leader
Phone: (503) 273-1465

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LIST OF ABBREVIATIONS USED IN THIS PERMIT

ACDP	Air Contaminant Discharge Permit
AIA	Aggregate Insignificant Activities
acfm	actual cubic foot per minute
avg.	average
AQMA	Air quality management area
ASTM	American Society of Testing and Materials
Btu	British thermal unit
CFR	Code of federal regulations
CO	Carbon monoxide
CO ₂	Carbon dioxide
DEQ/ODEQ	Oregon Department of Environmental Quality
dscf	dry standard cubic foot
EF	emission factor
EPA	US Environmental Protection Agency
EU	Emissions unit
ft ³	cubic feet
FCAA	Federal Clean Air Act
gr/dscf	grain per dry standard cubic foot
HAP	Hazardous Air Pollutant as defined by OAR 340-032-0130
HCFC	Hydro-chloro-fluoro-carbons
H ₂ S	Hydrogen Sulfide
ID	Identification number
I&M	Inspection and maintenance
kg/Mg	kilogram per megagram
LEL	lower explosive limit
LPG	Liquefied petroleum gas
MB	Material balance
mg/l	milligrams per liter
MMBtu	Million British thermal units
mvac	Motor vehicle air conditioner
NG	Natural gas
NO _x	Oxides of nitrogen
O ₂	Oxygen
OAR	Oregon Administrative Rules
ORS	Oregon Revised Statutes
O&M	Operation and maintenance
Pb	Lead
PCB	Polychlorinated biphenyls
PCD	Pollution control device
PM	Particulate matter
PM ₁₀	Particulate mater less than 10 microns in size
ppm	Part per million
PSD	Prevention of Significant Deterioration
PSEL	Plant Site Emission Limit
psig	pounds per square inch, gauge pressure
RACT	Reasonably Available Control Technology
scf	Standard cubic foot
SERP	Source Emission Reduction Plan
SIP	State Implementation Plan
SNAP	Significant New Alternative Policy
SO ₂	Sulfur dioxide
SP	Softening point
ΔSP	Change in Softening Point
ST	Source test
VE	Visible emissions
VMT	Vehicle miles traveled
VOC	Volatile organic compound

PERMITTED ACTIVITIES

1. Until such time as this permit expires or is modified or revoked, the permittee is allowed to discharge air contaminants from those processes and activities directly related to or associated with air contaminant source(s) in accordance with the requirements, limitations, and conditions of this permit. [OAR 340-218-0010, 340-218-0120(2)]

2. All conditions in this permit are federally enforceable and state enforceable, except Conditions 6, 8, 21, 28, 30, 35, and G21 are enforceable by the state only.

OPERATING SCENARIOS

3. The permittee shall operate under the following operating scenarios. [OAR 340-218-0140(1)]
 - 3.a. In the Normal Operating Scenario (OS #1), Emissions Unit 1 (EU1) shall be operated to produce the asphalt products without using any catalyst.
 - 3.b. In the Alternative Operating Scenario 2 (OS #2), EU1 shall be operated to produce ferric chloride (catalyst) oxidized asphalt.
 - 3.c. In the Alternative Operating Scenario 3 (OS #3), caustic/metal Catalyst shall be added to the EU1 convertors to control SO₂ emissions.
 - 3.d. In the Alternative Operating Scenario 4 (OS #4), EU1 shall be operated to produce ferric chloride (catalyst) oxidized asphalt, and caustic/metal catalyst shall be added to the convertors to control SO₂ emissions.

EU1 Operating Scenario	Variation in Process
<u>OS #1:</u> Normal Operating Scenario	No Catalyst is used.
<u>OS #2:</u> Alternative Operating Scenario 2	Ferric chloride Catalyst is added to the Convertors.
<u>OS #3:</u> Alternative Operating Scenario 3	Caustic/metal Catalyst is added to the Convertors.
<u>OS #4:</u> Alternative Operating Scenario 4	Ferric chloride Catalyst and Caustic/metal Catalyst are added to the Convertors.

4. The permittee shall contemporaneously record changes from one operating scenario to another, as specified in the PSEL monitoring condition 40, for the emissions unit EU1. The record shall be submitted upon request by the Department. [OAR 340-218-0140(1)(c)]

EMISSIONS UNIT (EU) AND POLLUTION CONTROL DEVICE (PCD) IDENTIFICATION

5. The emissions units and pollution control devices regulated by this permit are the following [OAR 340-218-0040(3)]:

EU ID	EU Devices	EU Device ID	POLLUTION CONTROL DEVICE	PCD ID
EU1	Convertor #1	EU1.1	Fume Incinerator	I-1
	Convertor #2	EU1.2		
	Convertor #3	EU1.3		
	Convertor #4	EU1.4		
	Preheater	EU1.5 **	None	--
EU2	Hot Oil Heater	EU2.1	None	--
	Boiler	EU2.3	None	--
	Preheater	EU2.4	None	--
	Boiler	EU2.5	None	--
EU3	Tank #1	EU3.1	Fiber bed filter	F-1
	Tank #2	EU3.2	Fiber bed filter	F-2
EU4	Tank #3	EU4.1	Fume Incinerator & RTO-1 back-up	I-1 (RTO-1)
	Tank #4	EU4.2		
	Tank #5	EU4.3		
	Tank #6	EU4.4		
	Accessory Tank	EU4.5		
EU5	Tank #7	EU5.1	Fume Incinerator & RTO-1 back-up	I-1 (RTO-1)
	Tank #8	EU5.2		
	Tank #9	EU5.3		
	Tank #10	EU5.4		
	Tank #12	EU5.5	Fume Incinerator	I-1
	Tank #13	EU5.6		
	Tank #14	EU5.7		
	Tank #15	EU5.8		
	Tank #16	EU5.9		
	Tank #17	EU5.10		
EU6	Tank #51	EU6.1	I-1 & fiber bed filter	I-1 & F-51
	Dryer Tank	EU6.2	Fume Incinerator	I-1
EU7	Truck Loading Rack #1	EU7.1	I-1 & fiber bed filter	I-1 & FL-1
	Truck Loading Rack #2	EU7.2	I-1 & RTO-1 back-up	I-1 & RTO-1
	Truck Loading Rack #3	EU7.3	Fume Incinerator	I-1
	Truck Loading Rack #4	EU7.4		
EU8	Pouring Shed	EU8.1	None	--

** The (non-contact) preheater EU1.5 is also the incinerator I-1.

EMISSION LIMITS AND STANDARDS

The following Table-I through Table-IV contain summaries of applicable requirements other than the Plant Site Emission Limits (PSEL), along with the monitoring methods for the emissions units to which those requirements apply.

Table-I. Facility-wide Emission Limits and Standards

Applicable Requirements		Parameter	Pollutant/ Standard	Monitoring Requirements	
Oregon Administrative Rule / 40 CFR	Condition Number			Method	Condition Number
340-208-0560	6	VOC	Equipment Specification	I&M Recordkeeping	7
340-208-0300	8	Nuisance	No nuisance	I&M Recordkeeping	9

6. **REQUIREMENT:** Storage tanks with a capacity of 40,000 gallons or more shall not be used to store VOC liquids with a true vapor pressure equal to or greater than 1.5 psia at the storage temperature, unless the tank is equipped with a floating roof or other equivalent vapor recovery system. [OAR 340-208-560] [State-only enforceable]

7. **MONITOR AND RECORD:** For the purpose of determining compliance with the equipment specifications of condition 6, the permittee shall have the means (e.g., physical inspection) to show the applicable storage vessels are built to the specifications. For fixed roof vessels with a capacity of 40,000 gallons or more, the permittee shall keep readily accessible records⁽⁻¹⁻⁾ showing that VOC liquids with a high vapor pressure (> 1.5 psia) are not stored.

8. **REQUIREMENT:** The permittee shall not allow the emission of air contaminants that create nuisance conditions off the permittee's property. [OAR 340-208-0300] [State-only enforceable]

9. **MONITOR AND RECORD:** The permittee shall record all written complaints or complaints received via telephone or in person by the responsible official or a designated appointee that specifically refer to a complaint of odor from the permitted facility. Said log shall also record permittee's actions to investigate, make a determination as to the validity of the complaint, and resolve the problem within two working days or within such longer time (not to exceed 5 days) as is reasonably necessary to resolve the problem that led to the complaint.

NOTIFY: The permittee shall notify the Department if more than 5 working days are needed to resolve the problem.

⁽⁻¹⁻⁾ The PSEL monitoring and recordkeeping requirements of this permit already satisfies the recordkeeping requirements of this condition, and no additional monitoring is necessary.

Table-II. Emissions Unit Specific NSPS Requirements

EU/PCD ID	Applicable Requirements		Pollutant/ Parameter	Limit/ Standard	Monitoring Requirements	
	OAR/ 40 CFR	Cond. Number			Method	Condition Number
EU1 (OS#1)	40 CFR 60.472(b)(3)	10	PM/PM ₁₀ without Catalyst	0.60 kg/Mg Asphalt	CEM & Recordkeeping	13
EU1 (OS#2, OS#3, OS#4)	40 CFR 60.472 (b)(1)	11	PM/PM ₁₀ with Catalyst	0.67 kg/Mg Asphalt	CEM & Recordkeeping	13
All EU5 tanks except EU5.4	40CFR60.112b(a)(3)	12	VOC	No detectable leak, 95% VOC Control	Testing, CEM & Recordkeeping	14 & 13
EU1	40 CFR 60.472(b)(5)	15	Opacity	0%	VE and Recordkeeping	17
EU3, EU4 and EU5	40 CFR 60.472 (c)	16	Opacity	0%	VE and Recordkeeping	17
All Tanks > 40m ³	40 CFR 60.116b (a) & (b)	18	NSPS Recordkeeping Requirements required on (exempt) vessels.			18

10. **REQUIREMENT (OS#1):** Under the normal operating scenario OS#1, when no catalyst is used, the emissions of particulate matter from EU1 shall not exceed 0.60 kilograms per megagram of asphalt charged to the convertor. [40 CFR 60.472 (b)(3)]
11. **REQUIREMENT (OS#2, 3, & 4):** Under the alternative operating scenarios OS#2, OS#3, or OS#4, when ferric chloride or caustic/metal catalyst is used, the emissions of particulate matter from EU1 shall not exceed 0.67 kilograms per megagram of asphalt charged to the still. [40 CFR 60.472 (b)(1)]
12. **REQUIREMENT:** The permittee shall provide a closed vent system and control device meeting the following specifications for applicable EU5 tanks: [40 CFR 60.112b (a)(3)]
 - 12.a. The closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessels (All EU5 tanks except EU5.4) and operated with no detectable emissions, except during gauging, as indicated by an instrument reading of less than 500 ppm above background and visual inspection, as determined from condition 14.
 - 12.b. The control devices (I-1 and RTO-1) shall be designed and operated to reduce inlet VOC emissions by 95 percent or greater, as determined from condition 13.
13. **MONITOR AND RECORD:** The permittee shall determine compliance with the requirements of Conditions 10 through 12, and the fume incinerator (I-1) temperature and residence time specified in Conditions 19 and 25, by monitoring the temperature in the combustion zone of the fume incinerator (I-1) and RTO (RTO-1) and the following parameters as specified:
 - 13.a. The production rate through the convertor shall be monitored by recording the blow time, pump time during the blow and the volume (gallon) processed for each batch. The permittee shall also record the product type and final softening point for each batch.

- 13.b. The combustion chamber temperature shall be continuously measured and shall be recorded on a continuous (circular) chart recorder. The temperature monitoring instrument shall have an accuracy of $\pm 10^{\circ}\text{C}$ over its range, as specified in 40 CFR 60.473(b).
- 13.c. The incinerator (I-1) residence time and RTO-1 residence time shall be monitored by measuring the exhaust flow rate of the incinerator with an annubar (averaging pitot tubes). The I-1 exhaust flow rate shall be recorded once per month or sooner if equipment changes are made.
- 13.d. Provided the combustion chamber temperature is maintained at a minimum of 1,400 °F during incineration not including shutdowns, and the minimum residence time of 0.5 seconds are met, the incinerator I-1 and RTO-1 are assumed to be operating in compliance with the 95% VOC destruction efficiency.
14. **MONITOR AND RECORD:** At a minimum of once per calendar year, the permittee shall determine compliance with the 500 ppm leak standard of condition 12.a in accordance with the following methods specified in 40 CFR 60.485(b):
- 14.a. The EPA Method 21 shall be used to determine the presence of leaking sources. The instrument shall be calibrated before use each day of its use by the procedures specified in EPA Method 21.
- 14.b. The following calibration gases shall be used:
- 14.b.i. Zero air (less than 10 ppm of hydrocarbon in air); and
- 14.b.ii. a mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane.
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15. **REQUIREMENT:** Emissions unit EU1 exhaust gases with an opacity greater than zero (0) percent shall not be emitted into the atmosphere. [40 CFR 60.472 (b)(5)]
16. **REQUIREMENT:** Emissions units EU3, EU4, and EU5 exhaust gases with an opacity greater than zero (0) percent shall not be emitted into the atmosphere, except for one consecutive 15-minute period in any 24-hour period when transfer lines are being blown for clearing. The control device shall not be by-passed during this 15-minute period. [40 CFR 60.472 (c)]
17. **MONITOR AND RECORD:** The permittee shall conduct visible emissions survey at each discharge point of emissions units EU1, EU3, EU4, and EU5 in accordance with the following procedures and frequencies:
- 17.a. At a minimum of once per week, except as specified in condition 17.e, the permittee shall conduct a six (6) minute visible emission survey using the procedures outlined in EPA Method 22. The minimum monitoring frequency specified is also the required interval between two consecutive monitoring periods.
- 17.b. All visible emissions observations shall be conducted during operating conditions that have the potential to create visible emissions (e.g. during loading and/or unloading activities).
- 17.c. If visible emissions are present, the permittee shall continue the Method 22 survey for 60 minutes or until more than 12 cumulative minutes of visible emissions are observed, in which case an EPA

Method 9 test shall be conducted on that monitoring point in accordance with the Department's Source Sampling Manual.

- 17.d. If the observer is unable to conduct the survey and/or EPA Method 9 or Method 22 tests due to visual interference caused by other visible emissions sources (e.g., fugitive emissions during high wind conditions), or due to weather conditions such as fog, heavy rain, or snow, the observer shall note such conditions on the data observation sheet and make at least three attempts in same day to conduct the surveys and/or tests at approximately 2 hour intervals throughout the day. If no observations are made for that day, the observer shall continue to attempt to conduct the survey and/or EPA Method 9 or Method 22 daily until a valid observation is made.
- 17.e. If visible surveys and/or observations conducted during 10 consecutive observation weeks show no visible emissions for a particular source, the permittee may reduce the minimum monitoring frequency to once per month for that source. Anytime the monthly visible emissions survey show any visible emissions, or when requested by the Department inspector, the observations for that source of visible emissions shall start over with weekly surveys, as noted in item a of this condition.

18. **NSPS RECORDKEEPING:** The permittee shall keep readily accessible records showing the dimension of all storage vessel and an analysis showing the capacity of each of the storage vessels that is used to store volatile organic liquids (VOL). This record shall be kept for the life of the applicable unit. **The following storage tanks are exempt from the recordkeeping requirements of this condition:** [40 CFR 60.110b(a); 60.116b(a) & (b)]

- 18.a. All tanks with the capacity less than 75 m³;
- 18.b. All tanks with the capacity from 75 m³ to 151 m³ storing VOL with a true vapor pressure less than 15 kPa (2.12 psi); and
- 18.c. All tanks with the capacity greater than 151 m³ storing VOL with a true vapor pressure less than 3.5 kPa (0.51 psi).
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Table-III. Emissions Unit Specific Non-NSPS Requirements

EU/PCD ID	Applicable Requirements		Pollutant/ Parameter	Limit/ Standard	Monitoring Requirements	
	OAD / 40 CFR	Cond No.			Method	Cond. No.
EU1 / I-1	340-224-0060(1)	19	CO	BACT	CEM Recordkeeping	13
EU1, EU3, EU4,	340-208-0110(2)	20	Opacity	< 20%	VE Recordkeeping	17 & 13
EU2, EU6, EU7 , EU8	340-208-0015(2) 340-208-0110(3)(a)	20	Opacity	< 20%	VE Recordkeeping	24
EU3, EU4, EU5	340-208-0600	21	Opacity	< 20%	VE Recordkeeping	17 & 13
EU6, EU7, EU8	340-208-0600	21	Opacity	< 20%	VE Recordkeeping	24
EU1, EU2	340-228-0210(1)(b)	22	PM	0.1 gr/scf	VE Recordkeeping	24
EU3, EU4, EU5, EU6, EU7, EU8	340-226-0210(1)(b)	23	PM	0.1 gr/scf	VE Recordkeeping	24
EU1	340-226-0120(1), 340-208-0550	25	Temperature & res. time	1,400 °F & 0.5 second	CEM and Recordkeeping	13
EU1.5 & EU2	340-228-0110	26	Distillate Oil Sulfur Cont.	0.3% by weight 0.5% by weight	%Sulfur Analysis Recordkeeping	27
EU1,EU4,EU5, EU7	340-208-0630	28	SO ₂	< 1,000 ppm	I&M Recordkeeping	29

19. **BACT-REQUIREMENT FOR CO EMISSIONS FROM EU1/I-1:** The permittee shall maintain the I-1 combustion chamber temperature at a minimum of 1,450 °F, and above 1,550 °F based on an averaging period of one operational day, during incineration not including shutdowns; and the minimum residence time of 0.75 seconds. [OAR 340-224-0060(1)]

MONITORING & RECORDKEEPING: Procedures outlined in Condition 13 shall be used.

20. **APPLICABLE REQUIREMENT:** The permittee shall not cause or allow the emissions of any air contaminant into the atmosphere for a period or periods aggregating more than three (3) minutes in any one hour which is equal to or greater than 20% opacity, excluding uncombined water, from emissions units EU1 through EU7. Opacity from EU1, EU3, EU4, and EU5 shall be measured in accordance with condition 17. Opacity from EU2, EU6, EU7 and EU8 shall be measured in accordance with condition 24. [OAR 340-208-0110(2) and 340-208-0110(3)(a)]

21. **APPLICABLE REQUIREMENT:** The permittee shall not cause or allow the emissions of any air contaminant into the atmosphere for a period or periods aggregating more than thirty (30) seconds in any one hour which is equal to or greater than 20% opacity, excluding uncombined water, from emissions units EU3 through EU7. Opacity from EU3, EU4, and EU5 shall be measured in accordance with condition 17. Opacity from EU6, EU7 and EU8 shall be measured in accordance with condition 24. [OAR 340-208-0600] [State-only enforceable]

22. **APPLICABLE REQUIREMENT:** The permittee shall not cause or allow the emissions of particulate matter in excess of 0.1 grain per standard cubic foot, corrected to 12% CO₂ or 50% excess air, from emissions units EU1 and EU2. Particulate matter emissions shall be measured in accordance with condition 46. [OAR 340-228-0210(1)(b)]
23. **APPLICABLE REQUIREMENT:** The permittee shall not cause or allow the emissions of particulate matter in excess of 0.1 grain per standard cubic foot, from emissions units EU3, EU4, EU5, EU6, EU7 and EU8. Particulate matter emissions shall be measured in accordance with condition 46. [OAR 340-226-0210(1)(b)]
24. **MONITOR AND RECORD:** Except as provided in condition 24.f for EU2, the permittee shall conduct visible emissions survey at emission points of each of the fuel burning equipment grouped under emissions units EU2, EU6, and EU7 in accordance with the following procedures and frequencies:
- 24.a. At a minimum of once per week, except as provided in condition 24.e, the permittee shall conduct a six (6) minute visible emission survey using the procedures outlined in EPA Method 22. The minimum weekly monitoring frequency specified is also the required interval between two consecutive monitoring periods.
- 24.b. All visible emissions observations shall be conducted during a period when the equipment is operating.
- 24.c. If visible emissions excluding condensed water vapor from an individual monitoring point are detected for more than 5% (18 seconds) of the survey time, a 60 minute EPA Method 22 test shall be conducted on that monitoring point in accordance with the Department's Source Sampling Manual. The observation period shall continue until 60 minutes of observation have been completed or until more than 12 cumulative minutes of visible emissions have been observed. If more than 12 cumulative minutes of visible emissions are observed, then a Method 9 opacity test shall be performed.
- 24.d. If the observer is unable to conduct the survey and/or EPA Method 9 or Method 22 tests due to visual interference caused by other visible emissions sources (e.g., fugitive emissions during high wind conditions), or due to weather conditions such as fog, heavy rain, or snow, the observer shall note such conditions on the data observation sheet and make at least three attempts in same day to conduct the surveys and/or tests at approximately 2 hours intervals throughout the day. If no observations are made for that day, the observer shall continue to attempt to conduct the survey and/or EPA Method 9 or Method 22 daily until a valid observation is made.
- 24.e. If visible surveys and/or observations conducted during 10 consecutive observation weeks show no visible emissions for a particular source, the permittee may reduce the minimum monitoring frequency to once per month for that source. Anytime the monthly visible emissions survey show any visible emissions, or when requested by the Department inspector, the observations for that source of visible emissions shall start over with weekly surveys, as noted in item 24.a of this condition.
- 24.f. As long as the EU2 fuel burning equipment burns natural gas or LPG, emissions from that equipment is assumed to be in compliance with the 20% opacity standard; and the visual emissions survey required by this condition is waived for that equipment. For the purpose of verification, the permittee shall monitor and record the type(s) of fuel used in the fuel burning equipment. The permittee may utilize the PSEL monitoring for this purpose.
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25. **APPLICABLE REQUIREMENT:** The combustion chamber of the fume incinerator (I-1) associated with the EU1 operations shall be maintained at a minimum temperature of 1,400 degrees Fahrenheit for at least 0.5 seconds residence time during processing operations. [OAR 340-208-0550, 340-226-0120(1)]

MONITORING & RECORDKEEPING: Procedures outlined in Condition 13 shall be used.

26. **APPLICABLE REQUIREMENT:** The permittee shall only use natural gas (or LPG) as fuel in emissions unit EU1. The permittee may use fuels other than natural gas in emissions unit EU2 during periods when natural gas is unavailable. The permittee shall not use the following fuel oils:

- 26.a. ASTM Grade-1 distillate fuel oil containing more than 0.3 percent sulfur by weight; and
26.b. ASTM Grade-2 distillate fuel oil containing more than 0.5 percent sulfur by weight. [OAR 340-228-0110]

27. **MONITOR AND RECORD:** The permittee shall monitor the sulfur content of each batch of ASTM grade distillate oil used in EU2, in accordance with the following methods or procedures:

- 27.a. obtaining a sulfur analysis certificate from the vendor for each batch; or
27.b. analyzing or having analyzed by a contract laboratory a composite of representative samples taken by the permittee from each batch of fuel oil received. Liquid fuels shall be analyzed using ASTM D129-64, D1552-83, D4057-81 Method, or other equivalent method approved by the Department in writing.
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28. **APPLICABLE REQUIREMENT:** The permittee shall not cause or allow the emission of sulfur dioxide in excess of 1000 ppm from any sources grouped under the emissions units EU1, EU4, EU5, and EU7. [OAR 340-208-0630] [State-only enforceable]

29. **MONITOR AND RECORD:** At minimum of once every six months, the permittee shall review the process operating procedures to confirm that parameters have not changed in any way that would cause the SO₂ emissions to exceed the 1,000 ppm level.
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Table-IV. Emission Limits and Standards applicable to Insignificant Activities

Applicable Requirements		Pollutant/ Parameter	Limit/ Standard
Oregon Administrative Rule	Cond. No.		
340-208-0600	30	opacity	20%
340-208-0110(2) & (3)(a)	31	opacity	20%
340-228-0210(1)(b)	32	PM/PM ₁₀	0.1 gr/dscf
340-226-0210(1)(b)	33	PM/PM ₁₀	0.1 gr/dscf
340-208-0210	34	Fugitive dust	no nuisance
340-208-0620	35	PM	< 250 micron

30. **REQUIREMENT:** The permittee shall not cause or allow the emissions of any air contaminant into the atmosphere for a period or periods aggregating more than thirty seconds in any one hour, which is equal to, or greater than 20% opacity, excluding uncombined water, from any insignificant source, as measured in accordance with condition 46. [OAR 340-208-0600] [State-only enforceable]
 31. **REQUIREMENT:** The permittee shall not cause or allow the emissions of any air contaminant into the atmosphere for a period or periods aggregating more than three minutes in any one hour, which is equal to, or greater than 20% opacity, excluding uncombined water, from any insignificant source. Opacity shall be measured in accordance with condition 46. [OAR 340-208-0110(2) and 340-208-0110(3)(a)]
 32. **REQUIREMENT:** The permittee shall not cause or allow the emissions of particulate matter in excess of 0.1 grain per standard cubic foot, corrected to 12% CO₂ or 50% excess air, from any fuel-burning insignificant source. Particulate matter emissions shall be measured in accordance with condition 46. [OAR 340-228-0210(1)(b)]
 33. **REQUIREMENT:** The permittee shall not cause or allow the emissions of particulate matter in excess of 0.1 grain per standard cubic foot, from any non-fuel-burning insignificant source. Particulate matter emissions shall be measured in accordance with condition 46. [OAR 340-226-0210(1)(b)]
 34. **REQUIREMENT:** The permittee shall not cause, suffer, allow, or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired or demolished; or any equipment to be operated, without taking reasonable precautions to prevent particulate matter from becoming airborne in accordance with OAR 340-208-0210.
 35. **REQUIREMENT:** Particulate matter which is larger than 250 microns and which may be deposited upon the real property of another person shall not be emitted. [OAR 340-208-0620] [State-only enforceable]
 36. **MONITOR, RECORD, & REPORT** No monitoring, recordkeeping, or reporting is required for Insignificant Activities.
 37. **TEST** No testing is required for Insignificant Activities. However, if testing is conducted for the purpose of demonstrating compliance, or verifying emission factors, the permittee shall use the test methods referenced in condition 46.
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PLANT SITE EMISSION LIMITS

38. **ANNUAL PSEL REQUIREMENT:** The annual plant site emissions based on 12-month rolling average shall not exceed the amount (tons/year) listed in this condition: [OAR 340-222-0020 and 340-222-0040]:

Pollutant:	PM	PM₁₀	SO₂	CO	NO_x	VOC
Plant Site Total:	24 *	14	106	157	39	39
AIA:	1	1	1	1	1	1

39. **SHORT-TERM PSEL REQUIREMENTS:** The short-term plant site emissions shall not exceed the following amount (lbs/day):

Pollutant:	SO₂	CO
From EU1/I-1:	528	1143

39.a. The SO₂ emissions from I-1 shall not exceed 528 pounds per day. [PSD Limit, OAR 340-225-0050]

39.b. The CO emissions from I-1 shall not exceed 1143 pounds per day. [NSR Limit, OAR 340-224-0060(2)(c)]

40. **MONITOR AND RECORD:** The permittee shall determine compliance with the annual PSEL specified in condition 38 and the short-term PSD/NSR Limits specified in condition 39 by conducting monitoring in accordance with the procedures and frequencies specified in conditions 40 through 43. The permittee shall retain records of all parameters used to determine compliance with the PSEL. The permittee shall monitor and maintain daily, monthly, and annual records of the following material and process parameters:

EMISSIONS UNIT	OPERATING PARAMETER	MINIMUM FREQUENCY	METHOD
EU1	Asphalt production "P" in "tons", blow time, gallons processed, the product type for each batch, and final softening point of product	daily	Meter/gauge readings and Recordkeeping
	Contemporaneously record changes from one operating scenario to another. Indicate whether the catalyst was used and the type of catalyst used.	As occurred	Recordkeeping
EU1.5	estimate the number (N) of hours/month the EU1.5 incinerator was operated.	Monthly	Recordkeeping
EU2	gallons of distillate fuel oil burned 10 ⁶ ft ³ of natural gas (NG) burned	Monthly	Recordkeeping
EU3 & EU5	%LEL of tank vapor space from each tank	Monthly	OVA/Instrument reading, Recordkeeping
EU7	Amount (tons/month), temperature, and type (paving or oxidized) of asphalt loaded during the period EU1.5 is operated.	Monthly	Meter/gauge readings
EU7	Amount (tons/month), temperature, and type (paving or oxidized) of asphalt loaded during the period EU1.5 is turned off.	(from review of daily records)	and Recordkeeping
EU8	Amount (tons/month) of asphalt loaded.	Monthly	Meter/gauge readings and Recordkeeping

41. **EUI - MONITOR AND RECORD:** At the end of each month, calculate the annual emissions (tons/yr) from emissions unit EU1 by applying the operating parameter (“P”, tons) identified in Condition 40 and the emission factors listed in this condition into the following formula:

41.a. First, calculate the pollutant emissions (tons) from emissions unit EU1 by applying the operating parameter (P) identified in Condition 40 and the emission factors listed in this condition into the following formula:

$$E_{ST} = P \times EF \times K$$

where: E_{ST} = short-term pollutant emissions; tons/month or lbs/day. For CO and SO₂, the short-term emissions monitoring period must not be longer than daily.
 P = Asphalt production (tons) identified in condition 40.
 EF= emission factor for the identified pollutant and emissions unit, expressed in lbs/ton at 120 degrees Fahrenheit (°F) change in softening point (ΔSP), or lbs/ton at T °F ΔSP.
 K = Conversion factor; 1 ton/2,000 lbs or 2,000 lbs/2,000 lbs

Emission Factors (EF) for emission units EU1.1 and EU1.2

Operating Scenario	PM ₁₀	CO	NO _x	SO ₂	VOC	H ₂ S	UNIT
OS#1 or OS#2	0.069 0.00058T	0.998 0.0083T	0.2 0.0017T	0.798 0.0067T	0.028 0.00023T	0.009 0.000075T	lb/ton asphalt at 120°F ΔSP lb/ton asphalt at T°F ΔSP
OS#3 or OS#4	0.069 0.00058T	0.998 0.0083T	0.2 0.0017T	0.548 0.0046T	0.028 0.00023T	0.009 0.000075T	lb/ton asphalt at 120°F ΔSP lb/ton asphalt at T°F ΔSP

The emission factor will normally be a number with unit of lbs/ton at 120°F changes in softening point. In the case of low softening point products, the revised emission factor expressed in T °F ΔSP will be used.

Emission Factors (EF) for emission units EU1.3 and EU1.4

Operating Scenario	PM ₁₀	CO	NO _x	SO ₂	VOC	H ₂ S	UNIT
OS#1 or OS#2	0.075 0.00063T	1.0 0.0083T	0.2 0.0017T	0.85 0.0071T	0.05 0.00042T	0.009 0.000075T	lb/ton asphalt at 120°F ΔSP lb/ton asphalt at T°F ΔSP
OS#3 or OS#4	0.075 0.00063T	1.0 0.0083T	0.2 0.0017T	0.6 0.005T	0.05 0.00042T	0.01 8.33E-5 T	lb/ton asphalt at 120°F ΔSP lb/ton asphalt at T°F ΔSP

The emission factor will normally be a number with unit of lbs/ton at 120°F changes in softening point. In the case of low softening point products, the revised emission factor expressed in T °F ΔSP will be used.

41.b. At the end of each month, add up the short-term emissions for each criteria pollutant for the previous 12-month period:

$$E_{Annual} = \sum_{Past\ 12-month} E_{ST}$$

41.c. At the end of each month, record the highest daily SO₂ and CO emissions noted from EU1. Record the date and the respective SO₂ and CO emissions.

42. **EU2 - MONITOR AND RECORD:** The permittee shall determine the monthly and annual emissions from the combustion unit EU2 by applying the operating parameters identified in Condition 40 and the emission factors listed in this condition into the following formula:

42.a. At the end of each month, calculate the monthly emissions (tons/month) from emissions unit EU2 by applying the monthly (NG & oil) fuel usage monitored per Condition 40 and the emission factors listed in this condition into the following formula:

$$E_{j,MO} = K \sum (P_i EF_{ij}) = K \{(P_1 EF_{1j}) + (P_2 EF_{2j}) + \dots + (P_n EF_{nj})\}$$

where: E_{j,MO} = Monthly pollutant “j” emissions; tons/month.
 P_i = Fuel usage (NG or Dist. Oil) identified in condition 40.
 EF_{ij} = emission factor for each emissions unit and pollutant identified in this condition.
 K = Conversion factor; 1 ton/2,000 lbs.

Emission Factors (EF_i) for Combustion emissions unit EU2.

EU ID	FUEL Type	PM ₁₀	SO ₂ ⁽¹⁾	NO _x	CO	VOC	UNIT
EU2.1, EU2.3,	Distillate Oil	2	142 (%S)	20	5	0.34	lbs/1000 gal
EU2.4, & EU2.5	Natural gas	2.5 ⁽²⁾	2.6 ⁽²⁾	100	84	5.5	lbs/10 ⁶ ft ³

⁽¹⁾ SO₂ EF is a function of sulfur content (%S) when distillate fuel oil is burned, in which %S is obtained per monitoring specified in condition 27.

⁽²⁾ All EFs are based on AP42 data for the "commercial boiler (0.5 - 10 million btu/hr)" category, except the PM₁₀ EF for NG combustion is DEQ EF based on source test, and the SO₂ EF for NG combustion reflects the type of NG sold in the NW region.

42.b. At the end of each month, add up the monthly emissions for each criteria pollutant for the previous 12-month period:

$$E_{j,Annual} = \sum_{\text{Past 12-month}} E_{j,MO}$$

43. **EU3 THROUGH EU8 - MONITOR AND RECORD:** At the end of each month, for each of the regulated air pollutants emitted from EU3 through EU8, the permittee shall determine the (previous 12-months) annual emissions by applying the operating parameters identified in Condition 40 and the emission factors listed in this condition into the EU specific formulas identified:

Variables used in this condition:

E _i	(lbs/month);	pollutant emissions for the EU identified
P	(tons/month);	asphalt production
P _{EU8}	(tons/month);	asphalt loaded
N	(hrs/mo);	number of hours I-1 operated per month, default = 730 hrs/mo.
n	(dimensionless)	number of tanks operated
%LEL	(%)	percent lower explosion limit
C	(ppm);	concentration of pollutant. C = (a x %LEL) + b, where a & b are pollutant specific constant (ppm).

43.a. Use the following formulas to obtain the monthly emissions from EU3, regardless of the I-1 operating status:

$$\begin{aligned} E_{EU3, VOC} &= 73.77 n \text{ (%LEL)} \\ E_{EU3, PM10} &= 2.066 n \text{ (%LEL)} \\ E_{EU3, CO} &= 0.1848 n \text{ C} \\ E_{EU3, H2S} &= 0.2253 n \text{ C} \end{aligned} \quad \text{where default value for } n = 2$$

43.b. Use the following formulas to obtain the monthly emissions from EU4 when RTO-1 is on:

$$\begin{aligned} E_{EU4, VOC} &= 2.021 \times 10^{-3} n \text{ N (%LEL)} \\ E_{EU4, PM10} &= 5.659 \times 10^{-4} n \text{ N (%LEL)} \\ E_{EU4, CO} &= 5.062 \times 10^{-6} n \text{ C N} \\ E_{EU4, H2S} &= 6.172 \times 10^{-6} n \text{ C N} \\ E_{EU4, SO2} &= 5.679 \times 10^{-4} n \text{ C N} \end{aligned} \quad \text{where default value for } n = 5$$

43.c. Use the following formulas to obtain the monthly emissions from EU5 when incinerator I-1 and RTO-1 are on:

$$\begin{aligned} E_{EU5, VOC} &= 2.021 \times 10^{-3} n \text{ N (%LEL)} \\ E_{EU5, PM10} &= 5.659 \times 10^{-4} n \text{ N (%LEL)} \\ E_{EU5, CO} &= 5.062 \times 10^{-6} n \text{ C N} \\ E_{EU5, H2S} &= 6.172 \times 10^{-6} n \text{ C N} \\ E_{EU5, SO2} &= 5.679 \times 10^{-4} n \text{ C N} \end{aligned} \quad \text{where default value for } n = 10$$

43.d. During the period when the incinerator I-1 and RTO-1 are turned off, use the following formulas to obtain the monthly VOC and PM₁₀ emissions from each storage tank grouped under emissions unit EU4, EU5, and EU6:

$$\begin{aligned} E_{VOC} &= (730 - N) (0.78 L_B) / 730 \\ E_{PM10} &= (730 - N) (0.022 L_B) / 730 \end{aligned}$$

The monthly VOC breathing losses (L_B) from each storage tank grouped under the emissions units identified shall be calculated based on the AP42 algorithms listed in this condition, or use the EPA TANKS program (software):

$$L_B = \text{monthly breathing loss} = 18.83 M_V [P/(P_A - P)]^{0.68} D^{1.73} H^{0.51} \Delta T^{0.5} F_P C K_C \text{ (lbs/month)}$$

where:

- M_V = average vapor molecular weight
- P = true vapor pressure at storage temperature
- P_A = average atmospheric pressure at tank location, psia; default = 14.7 psi
- D = tank diameter, feet
- H = average vapor space height - if not available, assume H equals 1/2 the tank height.
- ΔT = average temperature fluctuation, °F; default = 31°F
- F_P = paint factor; default = 1
- C = adjustment factor for small tanks with $D < 30$ feet

= 0.0771 (D) - 0.0013 (D²) - 0.1334; otherwise C = 1 for D ≥ 30.
 K_C = product factor; for crude oil, K_C = 0.65. For all other organic liquids, K_C = 1.0.

43.e. Use the formulas and emissions factors listed below to obtain the monthly emissions from EU7:

The EU7 Variables:

	CE (%)	CA (%)	EF (lbs/ton)	
			@ 480°F, oxidized asphalt	@ 375°F, paving asphalt without additive with additive
PM10/ PM	90	95	0.1316	2.137 x 10 ⁻² 2.137 x 10 ⁻²
VOC	0	95	0.467	7.578 x 10 ⁻² 0.1291
CO	0	95	5.114 x 10 ⁻³	4.57 x 10 ⁻⁴ 4.57 x 10 ⁻⁴
H2S	0	95	1.343 x 10 ⁻³	4.429 x 10 ⁻⁴ 4.429 x 10 ⁻⁴

43.e.i. Use the following equations for uncaptured EU7 emissions when I-1/RTO is on:

$$E_{PM} = P * EF * (1 - CA/100) * (90\%) \quad \text{where 90\% of uncaptured emissions are not PM10}$$

$$E_{PM10} = P * EF * (1 - CA/100) * (10\%) \quad \text{where 10\% of uncaptured emissions are PM10}$$

$$E_{VOC} = P * EF * (1 - CA/100)$$

$$E_{CO, Oxidized} = P * EF$$

$$E_{CO, Paving} = P * EF$$

$$E_{H2S, Oxidized} = P * EF$$

$$E_{H2S, Paving} = P * EF \quad \text{where P = asphalt loaded with I-1/RTO on}$$

43.e.ii. Use the following equations for EU7 emissions when I-1/RTO is turned off:

$$E_{PM10} = P * EF * (1 - CE CA/10,000)$$

$$E_{VOC} = P * EF * (1 - CE CA/10,000)$$

$$E_{CO, Oxidized} = P * EF * (1 - CE CA/10,000)$$

$$E_{CO, Paving} = P * EF * (1 - CE CA/10,000)$$

$$E_{H2S, Oxidized} = P * EF * (1 - CE CA/10,000)$$

$$E_{H2S, Paving} = P * EF * (1 - CE CA/10,000)$$

where P = asphalt loaded with I-1/RTO are off

43.f. Use the following equation for EU8 emissions:

$$E_{PM10} = P_{EU8} * 2.034 * 10^{-3} \quad \text{10\% of emissions are PM10}$$

$$E_{VOC} = P_{EU8} * 7.641 * 10^{-2}$$

$$E_{CO} = P_{EU8} * 1.371 * 10^{-5}$$

$$E_{H2S} = P_{EU8} * 8.5727 * 10^{-7}$$

$$E_{PM} = P_{EU8} * 1.831 * 10^{-2} \quad \text{90\% of emissions are not PM10}$$

TEST METHODS AND PROCEDURES [OAR 340-218-0050(1)]

44. Unless otherwise specified in this permit, all testing shall be conducted in accordance with the Department's Source Sampling Manual. [OAR 340-212-0120]
45. The EU1 SO₂ Emission Factor Verification Testing Requirements: The following procedures and test methods shall be used on the EU1 convertor/preheater to verify the accuracy of the SO₂ emission factor (0.0042T lbs SO₂ and 0.0045T lbs SO₂/ton asphalt) used in condition 41 for OS#3 or OS#4:
- 45.a. Sulfur dioxide source testing shall be performed within 2 weeks of initiating OS#3 or OS#4. Source testing is not required if OS#3 or OS#4 is never triggered during the permit term.
 - 45.b. The EPA Method 6c or alternative method (e.g., EPA Method 6) approved in writing by the Department shall be used for SO₂ emissions testing.
 - 45.c. During each test, the permittee shall monitor and record at minimum the following information:
 - 45.c.i. amount of asphalt production (tons) and the batch cycle time (hrs);
 - 45.c.ii. temperature change (°F) in softening point (ΔS);
 - 45.c.iii. amount of Caustic/metal catalyst used (lbs); and
 - 45.c.iv. amount and type of other catalyst (i.e., Cl₃Fe) used, if any.
 - 45.d. A report including the following information shall be submitted to the Department for review within 45 days of completing the source test, unless otherwise approved by the Department:
 - 45.d.i. a summary of the source test results;
 - 45.d.ii. measured production rate (tons /hr), Caustic/metal catalyst feed rate (lbs/hr), and T(°F) change in ΔS; and
 - 45.d.iii. proposed action levels for the Caustic/metal catalyst feed rate.
46. Although source testing is not required by this permit for the permit conditions listed below, if source testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods and averaging times to measure the pollutant emissions:

Permit Condition	Test Method	Averaging Time	Special Conditions
22, 23, 32 and 33	ODEQ Methods 5, 7, or 8	average of three one-hour test runs	ODEQ Method 8 is for sources with exhaust gases at essentially ambient conditions (e.g. material handling cyclones); ODEQ Method 7 is for direct contact combustion sources (e.g., particle and veneer dryers); ODEQ Method 5 is for indirect contact fuel burning equipment (e.g., boilers) and any other source.
20 and 31	Modified EPA Method 9 in accordance with	aggregate of three (3) minutes in any 60 minute period	Each Method 9 observation shall represent a period of 15 seconds for the purpose of determining the aggregate amount of time in 60 minute period that the visible emissions are greater than the opacity limit. The test duration may be less than 60 minutes if a violation of the standard is documented before the full 60 minute observation period is completed
21 and 30	the Department's Source Sampling Manual	aggregate of thirty (30) seconds in any 60 minute period	

RECORDKEEPING REQUIREMENTS [OAR 340-218-0050(3)(b)]

47. As with the monitoring requirements, recordkeeping requirements are specified elsewhere throughout the permit, usually at the end of the specific applicable requirement. The permittee shall maintain the following general records of monitoring required by this permit:
- 47.a. the date, place as defined in the permit, and time of sampling or measurements;
 - 47.b. the date(s) analyses were performed;
 - 47.c. the company or entity that performed the analyses;
 - 47.d. the analytical techniques or methods used;
 - 47.e. the results of such analyses;
 - 47.f. the operating conditions as existing at the time of sampling or measurement; and
 - 47.g. the records of quality assurance for continuous monitoring systems (including but not limited to quality control activities, audits, calibrations drift checks).
 - 47.h. records of the type and monthly records of the amount of fuels used in the fuel burning equipment;
 - 47.i. the records of the daily, monthly, and annual production and loading rates on a volume basis (in a confidential file);
 - 47.j. nuisance complaint log and investigation reports;
 - 47.k. the records of product temperature and type loaded into trucks;
 - 47.l. visible emissions observation reports;
 - 47.m. source test summary reports and results;
 - 47.n. incinerator temperature charts;
 - 47.o. % LEL of tanks in emissions units EU3, EU4, EU5, and EU6; and
 - 47.p. air flow-rate through incinerator.
48. Unless otherwise specified by permit condition, the permittee shall make every effort to maintain 100 percent of the records required by the permit. If information is not obtained or recorded for legitimate reasons (e.g., the monitor or data acquisition system malfunctions due to a power outage), the missing record(s) shall not be considered a permit deviation provided the amount of data lost does not exceed 10% of the averaging periods in a reporting period or 10% of the total operating hours in a reporting period, if no averaging time is specified. Upon discovering that a required record is missing, the permittee shall document the reason for the missing record. In addition, any missing record that can be recovered from other available information shall not be considered a missing record. [OAR 340-214-0110, 340-212-0160, and 340-218-0050(3)(b)]
49. The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. All existing records required by the previous Air Contaminant Discharge Permit shall also be retained for five (5) years from the date of the monitoring, sample collection, measurement, report, or application.

Exception: As specified in condition 18, certain NSPS records (e.g., storage vessel dimensions) must be kept for the life of the equipment, **if applicable**.

REPORTING REQUIREMENTS [OAR 340-218-0050(3)(c)]

50. **SEMI-ANNUAL REPORTING REQUIREMENTS:** The permittee shall submit four (4) copies of the semi-annual monitoring report by July 31, unless otherwise approved in writing by the Department. The semi-annual monitoring report shall include the following information:
- 50.a. The first semi-annual compliance certification for the period January 1 through June 30 [OAR 340-218-0080] and the information specified in forms R1002 and R1003 for the same period. All instances of deviations from permit requirements shall be clearly identified in such report.
 - 50.b. The permittee may use forms supplied by the Department or equivalent forms approved by the Department.
 - 50.c. One copy of the semi-annual report shall be submitted to the DEQ Air Quality Division, two copies to the DEQ Northwest regional office, and one copy to the EPA Region X office.

51. **ANNUAL REPORTING REQUIREMENTS:** The permittee shall submit four (4) copies of the annual monitoring report by February 15, unless otherwise approved in writing by the Department. The annual monitoring report shall include the following information:
- 51.a. The second semi-annual compliance certification for the period July 1 through December 31 [OAR 340-218-0080] and the information specified in forms R1002 and R1003 for the same period. All instances of deviations from permit requirements shall be clearly identified in such reports.
 - 51.b. The emission fee report [OAR 340-220-0100]
 - 51.c. The emission statement, if applicable [OAR 340-214-0220]
 - 51.d. The excess emissions upset log, if applicable [OAR 340-214-0340]
 - 51.e. The annual certification that the risk management plan is being properly implemented, if triggered; OAR 340-244-0230. [OAR 340-218-0080(7)]
 - 51.f. Other source-specific annual reporting requirements as specified elsewhere throughout the permit, including the following:

EMISSIONS UNIT	ANNUAL PARAMETERS	UNIT
Plant-wide basis	12-month summary of annual emissions of each criteria pollutants noted at the end of each month	tons/yr
EU1	summary of maximum daily emissions noted each month for SO ₂ and CO, and dates	lbs/day.
EU2	summary of monthly emissions and corresponding fuel usage	tons/mo quantity, type
EU3 through EU8	summary of monthly emissions	lbs/mo

- 51.g. The permittee may use forms supplied by the Department or equivalent forms approved by the Department;

- 51.h. One copy of the annual report shall be submitted to the Air Quality Division, two copies to the Northwest regional office, and one copy to the EPA Region X office.
52. The permittee shall submit the following additional reports and/or information to the DEQ - Northwest Region as required by specific conditions within the permit:
- 52.a. source test plans/notifications prior to conducting actual test/measurements;
 - 52.b. source test results within 45 days after the source test was done; and
 - 52.c. when requested by the Department, submit all relevant records, data, and support information maintained at the plant site per recordkeeping requirements of conditions 47 through 49.
53. The (first & second) semi-annual compliance certification shall include the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable): [OAR 340-218-0080(6)(c)]
- 53.a. The identification of each term or condition of the permit that is the basis of the certification;
 - 53.b. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the methods and means required under OAR 340-218-0050(3). If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the FCAA, which prohibits knowingly making a false certification or omitting material information;
 - 53.c. The status of compliance with terms and conditions of the permit for the period covered by the certification, based on the method or means designated in OAR 340-218-0040(6)(c)(B). The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance, as defined under OAR 340-200-0020, occurred; and
 - 53.d. Such other facts as the Department may require to determine the compliance status of the source.
54. Notwithstanding any other provision contained in any applicable requirement, the owner or operator may use monitoring as required under OAR 340-218-0050(3) and incorporated into the permit, in addition to any specified compliance methods, for the purpose of submitting compliance certifications. [OAR 340-218-0080(6)(e)]
55. Excess Emissions Reporting [OAR 340-214-0300 through 340-214-0360]
- 55.a. The permittee shall report all excess emissions in accordance with OAR 340-214-0300 through 340-214-0360. In summary, the permittee shall immediately (i.e., as soon as possible but in no case more than one hour after the beginning of the excess emission period) notify the Department by telephone or in person of any excess emission, other than pre-approved startup, shutdown, or scheduled maintenance. Notification shall, to the extent reasonably ascertainable at the time of notification, include the source name, nature of the emissions problem, name of the person making the report, name and telephone number of the contact person for further information, date

and time of the onset of the upset condition, whether or not the incident was planned, the cause of the excess emission (e.g., startup, shutdown, maintenance, breakdown, or other), equipment involved in the upset, estimated type and quantity of excess emissions, estimated time of return to normal operations, efforts made to minimize emissions, and a description of remedial actions to be taken. Follow-up reporting shall be made in accordance with Department direction and OAR 340-214-0330(2) and 340-214-0340.

- 55.b. In the event of any excess emissions which are of a nature that could endanger public health and occur during non-business hours, weekends, or holidays, the permittee shall immediately notify the Department by calling the Oregon Accident Response System at 1-800-452-0311.
- 55.c. If startups, shutdowns, or scheduled maintenance may result in excess emissions, the permittee shall submit startup, shutdown, or scheduled maintenance procedures used to minimize excess emissions to the Department for prior authorization, as required in OAR 340-214-0310 and 340-214-0320. New or modified procedures shall be received by the Department in writing at least 72 hours prior to the first occurrence of the excess emission event. The permittee shall abide by the approved procedures and have a copy available at all times.
- 55.d. The permittee shall notify the Department of planned startup/shutdown or scheduled maintenance events only if required by permit condition or if the source is located in a nonattainment area for a pollutant which may be emitted in excess of applicable standards.
- 55.e. The permittee shall maintain and submit to the Department a log of planned and unplanned excess emissions, on Department approved forms, in accordance with OAR 340-214-0340.
- 56. The permittee shall promptly report deviations from permit requirements that do not cause excess emissions, including those attributable to upset conditions, as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. "Prompt" means within seven (7) days of the deviation. Deviations that cause excess emissions, as specified in OAR 340-214-0300 through 340-214-0360 shall be reported in accordance with OAR 340-214-0340. [OAR 340-218-0050(3)(c)(B)]
- 57. The permittee shall submit any required source test report within 30 days after the source test; unless otherwise approved in the source test plan. [OAR 340-218-0050(3)(c)(C) and 340-212-0120]
- 58. All required reports shall be certified by a responsible official consistent with OAR 340-218-0040(5); OAR [OAR 340-218-0050(3)(c)(D)]
- 59. Reporting requirements shall commence on the date of permit issuance unless otherwise specified in the permit. [OAR 340-218-0050(3)(c)(E)]
- 60. Addresses of regulatory agencies are the following, unless otherwise instructed:

DEQ – Northwest Region	DEQ - Air Quality Division	Air Compliance Division US Environmental Protection Agency
2020 S.W. 4th Avenue, #400 Portland, OR 97201-5884	811 SW Sixth Avenue Portland, OR 97204	Mail Stop OAQ-107 1200 Sixth Avenue Seattle, WA 98101
(503) 229-5263	(503) 229-5359	--

NON-APPLICABLE REQUIREMENTS

61. Divisions of Chapter 340, Air Quality Oregon Administrative Rules (OARs), currently determined not applicable to the permittee are listed below. [OAR 340-028-2190]

61.a. The following OARs are not applicable because the source is not in the source category cited in the rules:

Division 202: Rules	Entire Division
Division 204: Rules	Entire Division
Division 206: Rules	0050, 0070
Division 230: Rules	Entire Division
Division 232: Rules	Entire Division
Division 234: Rules	Entire Division
Division 236: Rules	Entire Division
Division 238: Rules	0100
Division 242: Rules	0500, 0790
Division 244: Rules	Entire Division
Division 258: Rules	0400
Division 260: Rules	0010 - 0030

61.b. The following OARs are not applicable because the source is outside the special control area, non-attainment area or county cited in the rules:

Division 240: Rules	Entire Division
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61.c. The following OARs are not applicable because the source does not have specific emissions units cited in the rules:

Division 208: Rules	0560, 0570
Division 228: Rules	0200

61.d. The following OARs are not applicable because the source does not sell, distribute, use, or make available for use, the fuel type cited in the rules:

Division 228: Rules	0120, 0130
Division 258: Rules	0110 to 0300

62. The following federal regulations are not applicable to the permittee at the time of permit issuance because the source is not in the source category cited in the rules:

40 CFR Part 60 except subpart A, Kb, UU, and the Appendices,
40 CFR Part 61 except subparts A, M, and the Appendices,
40 CFR Part 63 except subpart A and the Appendices,
40 CFR Parts 55, 57, 68, 71, 72, 73, 75, and 76,
40 CFR Part 82 (except subpart F),
40 CFR Parts 85 through 89,
Section 129 of the FCAA, Solid Waste,
Section 183(e) of the FCAA, Consumer and commercial products,
Section 183(f) of the FCAA, Tank Vessels.

GENERAL CONDITIONS

G1. General Provision

Terms not otherwise defined in the permit shall have the meaning assigned to such terms in the referenced regulation.

G2. Reference materials

Where referenced in this permit, the version of the following materials are effective as of the dates noted unless otherwise specified in the permit:

- a. Source Sampling Manual; January 23, 1992 - State Implementation Plan Volume 3, Appendix A4;
- b. Continuous Monitoring Manual; January 23, 1992 - State Implementation Plan Volume 3, Appendix A6; and
- c. All State and Federal regulations as in effect on the date of issuance of this permit.

G3. Compliance [OAR 340-218-0040(3)(n)(C), 340-218-0050(6), and 340-218-0080(4)]

- a. The permittee shall comply with all conditions of the federal operating permit. Any permit condition noncompliance constitutes a violation of the Federal Clean Air Act and/or state rules and is grounds for enforcement action; for permit termination, revocation and re-issuance, or modification; or for denial of a permit renewal application. Any noncompliance with a permit condition specifically designated as enforceable only by the state constitutes a violation of state rules only and is grounds for enforcement action; for permit termination, revocation and re-issuance, or modification; or for denial of a permit renewal application.
- b. Any schedule of compliance for applicable requirements with which the source is not in compliance at the time of permit issuance shall be supplemental to, and shall not sanction noncompliance with the applicable requirements on which it is based.
- c. For applicable requirements that will become effective during the permit term, the source shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement.

G4. Credible Evidence:

Notwithstanding any other provisions contained in any applicable requirement, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any such applicable requirements. [OAR 340-214-0120]

G5. Certification [OAR 340-214-0110, 340-218-0040(5), 340-218-0050(3)(d), and 340-218-0080(2)]

Any document submitted to the Department pursuant to this permit shall contain certification by a responsible official of truth, accuracy and completeness. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and, complete. The permittee shall promptly, upon discovery, report to the Department a material error or omission in these records, reports, plans, or other documents.

G6. Open Burning [OAR Chapter 340, Division 264]

The permittee is prohibited from conducting open burning, except as may be allowed by OAR 340-264-0020 through 340-264-0200.

G7. Asbestos [40 CFR Part 61, Subpart M (Federally enforceable), OAR 340-248-0210 through 340-248-0280 and OAR Chapter 340, Division 248 (State-only enforceable)]

The permittee shall comply with OAR 340-248-0210 through 340-248-0280, OAR Chapter 340 Division 248, and 40 CFR Part 61, Subpart M when conducting any renovation or demolition activities at the facility.

G8. Stratospheric Ozone and Climate Protection [40 CFR 82 Subpart F, OAR 340-260-0040]

The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction.

G9. Permit Shield [OAR 340-218-0110]

- a. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that:
 - i. such applicable requirements are included and are specifically identified in the permit, or
 - ii. the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
- b. Nothing in this rule or in any Federal Operating Permit shall alter or affect the following:
 - i. the provisions of ORS 468.115 (enforcement in cases of emergency) and ORS 468.035 (function of department);
 - ii. the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - iii. the applicable requirements of the national acid rain program, consistent with section 408(a) of the FCAA; or
 - iv. the ability of the Department to obtain information from a source pursuant to ORS 468.095 (investigatory authority, entry on premises, status of records).
- c. Sources are not shielded from applicable requirements that are enacted during the permit term, unless such applicable requirements are incorporated into the permit by administrative amendment, as provided in OAR 340-218-0150(1)(h), or significant permit modification.

G10. Inspection and Entry [OAR 340-218-0080(3)]

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department of Environmental Quality, or an authorized representative (including an authorized contractor acting as a representative of the EPA Administrator), to perform the following:

- a. enter upon the permittee's premises where an Oregon Title V operating permit program source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- b. have access to and copy, at reasonable times, any records that must be kept under conditions of the permit;
- c. inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- d. as authorized by the FCAA or state rules, sample or monitor, at reasonable times, substances or parameters, for the purposes of assuring compliance with the permit or applicable requirements.

G11. Fee Payment [OAR 340-220-0010, and 340-220-0030 through 340-220-0190]

The permittee shall pay an annual base fee and an annual emission fee for all regulated air pollutants except for carbon monoxide, any class I or class II substance subject to a standard promulgated under or established by Title VI of the Federal Clean Air Act, or any pollutant that is a regulated air pollutant solely because it is subject to a standard or regulation under section 112(r) of the Federal Clean Air Act. The permittee shall submit payment to the Department of Environmental Quality, Business Office, 811 SW 6th Avenue, Portland, OR 97204, within 30 days of the date the Department mails the fee invoice or August 1 of the year following the calendar year for which emission fees are paid, whichever is later. Disputes shall be submitted in writing to the Department of Environmental Quality. Payment shall be made regardless of the dispute. User-based fees shall be charged for specific activities (e.g., computer modeling review, ambient monitoring review, etc.) requested by the permittee.

G12. Off-Permit Changes to the Source [OAR 340-218-0140(2)]

- a. The permittee shall monitor for, and record, any off-permit change to the source that:
 - i. is not addressed or prohibited by the permit;
 - ii. is not a Title I modification;
 - iii. is not subject to any requirements under Title IV of the FCAA;
 - iv. meets all applicable requirements;
 - v. does not violate any existing permit term or condition; and
 - vi. may result in emissions of regulated air pollutants subject to an applicable requirement but not otherwise regulated under this permit or may result in insignificant changes as defined in OAR 340-200-0020.
- b. A contemporaneous notification, if required under OAR 340-218-0140(2)(b), shall be submitted to the Department and the EPA.
- c. The permittee shall keep a record describing off-permit changes made at the facility that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those off-permit changes.
- d. The permit shield of condition G11 shall not extend to off-permit changes.

G13. Section 502(b)(10) Changes to the Source [OAR 340-218-0140(3)]

- a. The permittee shall monitor for, and record, any section 502(b)(10) change to the source, which is defined as a change that would contravene an express permit term but would not:
 - i. violate an applicable requirement;

- ii. contravene a federally enforceable permit term or condition that is a monitoring, recordkeeping, reporting, or compliance certification requirement; or
 - iii. be a Title I modification.
- b. A minimum 7-day advance notification shall be submitted to the Department and the EPA in accordance with OAR 340-218-0140(3)(b).
- c. The permit shield of condition G11 shall not extend to section 502(b)(10) changes.

G14. Administrative Amendment [OAR 340-218-0150]

Administrative amendments to this permit shall be requested and granted in accordance with OAR 340-218-0150. The permittee shall promptly submit an application for the following types of administrative amendments upon becoming aware of the need for one, but no later than 60 days of such event:

- a. legal change of the registered name of the company with the Corporations Division of the State of Oregon, or
- b. sale or exchange of the activity or facility.

G15. Minor Permit Modification [OAR 340-218-0150]

The permittee shall submit an application for a minor permit modification in accordance with OAR 340-218-0150.

G16. Significant Permit Modification [OAR 340-218-0180]

The permittee shall submit an application for a significant permit modification in accordance with OAR 340-218-0180

G17. Staying Permit Conditions [OAR 340-218-0050(6)(e)]

Notwithstanding condition G14 and G15, the filing of a request by the permittee for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

G18. Construction/Operation Modification [OAR 340-210-0205]

No permittee shall construct or make modifications required to be reviewed under OAR 340-218-0190, the construction/operation modification rules, without receiving a Notice of Approval in accordance with OAR 340-218-0190. The permittee should allow 60 days for Department review of applications for a construction/operation modification if public notice is not required, or 180 days if public notice is required.

G19. New Source Review Modification [OAR 340-224-0010]

No permittee shall construct or make modifications required to be reviewed under New Source Review (OAR 340-224-0010(1)) without receiving an Air Contaminant Discharge Permit (ACDP) (OAR 340-216-0010). The permittee should allow 180 days for Department review of an ACDP application for New Source Review.

G20. Need to Halt or Reduce Activity Not a Defense [OAR 340-218-0050(6)(b)]

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

G21. Duty to Provide Information [OAR 340-218-0050(6)(e) and OAR 340-214-0110]

The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records required to be retained by the permit.

G22. Reopening for Cause [OAR 340-218-0050(6)(c) and 340-218-0200]

- a. The permit may be modified, revoked, reopened and reissued, or terminated for cause as determined by the Department.
- b. The filing of a request by the permittee for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- c. A permit shall be reopened and revised under any of the circumstances listed in OAR 340-218-0200(1)(a).
- d. Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists.

G23. Severability Clause [OAR 340-218-0050(5)]

Upon any administrative or judicial challenge, all the emission limits, specific and general conditions, monitoring, recordkeeping, and reporting requirements of this permit, except those being challenged, remain valid and must be complied with.

G24. Permit Renewal and Expiration [OAR 340-218-0040(1)(a)(D) and 340-218-0130]

- a. This permit shall expire at the end of its term. Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted as described below.
- b. Applications for renewal shall be submitted at least 12 months before the expiration of this permit, unless the Department requests an earlier submittal. If more than 12 months is required to process a permit renewal application, the Department shall provide no less than six (6) months for the owner or operator to prepare an application. Provided the permittee submits a timely and complete renewal application, this permit shall remain in effect until final action has been taken on the renewal application to issue or deny the permit.

G25. Permit Transference [OAR 340-218-0150(1)(d)]

The permit is not transferable to any person except as provided in OAR 340-218-0150(1)(d).

G26. Property Rights [OAR 340-200-0020(9)(c) and 340-218-0050(6)(d)]

The 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, except as provided in OAR 340-218-0110.

G27. Permit Availability [OAR 340-200-0020(9)(c) and 340-218-0120(2)]

The permittee shall have available at the facility at all times a copy of the Oregon Title V Operating Permit and shall provide a copy of the permit to the Department or an authorized representative upon request.

ALL INQUIRIES SHOULD BE DIRECTED TO:

Northwest Region
2020 S.W. 4th Avenue, #400
Portland, OR 97201-5884
Telephone: (503) 229-5263