

Department of Environmental Quality
Air Quality Program

GENERAL
AIR CONTAMINANT DISCHARGE PERMIT
ASSESSMENT REPORT

GASOLINE DISPENSING FACILITIES – STAGE I

SOURCE DESCRIPTION AND QUALIFICATION

1. This General Permit is designed to regulate air contaminant emissions from gasoline dispensing facilities subject to the Emission Standards for Gasoline Dispensing Facilities requirements in OAR chapter 340 division 244.
2. The facilities assigned to this General Permit may not emit any other air pollution that requires regulation beyond that specified in this permit, except for other pollution emissions that also qualify for assignment and are assigned to other General Permits and categorically insignificant activities defined by OAR chapter 340 division 200. A facility that has experienced reoccurring or serious compliance problems is not eligible for assignment to this permit.
3. The facilities assigned to this General Permit must meet the definition of ‘gasoline dispensing facility’, as follows:
340-244-0030. "Gasoline dispensing facility (GDF)" means any stationary facility which dispenses gasoline into the fuel tank of a motor vehicle, motor vehicle engine, nonroad vehicle, or nonroad engine, including a nonroad vehicle or nonroad engine used solely for competition. These facilities include, but are not limited to, facilities that dispense gasoline into on- and off-road, street, or highway motor vehicles, lawn equipment, boats, test engines, landscaping equipment, generators, pumps, and other gasoline fueled engines and equipment. In Clackamas, Multnomah and Washington Counties, the Medford-Ashland Air Quality Maintenance Area, and the Salem-Keizer Area Transportation Study area, “gasoline dispensing facility” includes any stationary facility which dispenses gasoline into the fuel tank of an airplane.

ASSESSMENT OF EMISSIONS

4. Facilities assigned to this General Permit are area sources of volatile organic compound (VOC) and hazardous air pollutant (HAP) emissions.
5. DEQ has assessed the level of emissions of air pollutants from these facilities and determined that facilities complying with the operational limits and monitoring requirements of this permit will remain area sources and compliant with applicable emission limits.

SPECIFIC AIR PROGRAM APPLICABILITY

6. Facilities assigned to this General Permit are subject to the general nuisance requirements (odors) in OAR Chapter 340, Division 208. The permit contains requirements and limitations to ensure compliance with these standards. The visible emissions and fugitive dust standards in OAR Chapter 340, Division 208 are applicable to these facilities but they do not typically cause visible or fugitive emissions. The particulate matter emission limits in OAR Chapter 340, Division 226 are not applicable to these facilities because the emissions, if any, are fugitives, which cannot be measured using standard test methods.
7. Facilities assigned to this General Permit are subject to 40 C.F.R. part 63 subpart CCCCCC, but these standards have not been adopted by the Environmental Quality Commission and are therefore only enforceable by the U.S. Environmental Protection Agency. The Environmental Quality Commission has adopted specific standards applicable to Gasoline Dispensing Facilities established in OAR chapter 340 division 244.

COMPLIANCE ASSURANCE

8. Permittees are required to maintain records of production, equipment leaks and repairs, inspections, changes made at the facility, major maintenance performed on the vapor balance system, complaints received at the facility, and if required, VOC emissions. Permittees are also required to submit an annual report to DEQ.
9. DEQ staff review annual report submittals and perform site inspections of the permitted facilities on a routine basis; inspections may be performed more frequently if complaints are received.

10. EMISSION FACTORS

For a source that has not installed a complete Stage 1 vapor balance system and only uses submerged filling, the following emission factors apply:

Activity or Process	Emission Factor	Units
Tank Filling ³	7.70	lbs/1,000 gallons throughput
Tank Breathing & Emptying ³	0.76	
Vehicle Refueling ⁴	3.46	
Spillage ³	0.61	
Hose Permeation ³	0.06	
Total VOC	12.59	
Total HAP emissions are equal to 12.2% of VOC emissions ²		

For a source that has installed and operates a complete Stage 1 vapor balance system, the following emission factors apply:

Activity or Process	Emission Factor	Units
Tank Filling ^{1, 4}	0.34	lbs/1,000 gallons throughput
Tank Breathing & Emptying ³	0.09	
Vehicle Refueling ⁴	3.46	
Spillage ³	0.61	
Hose Permeation ³	0.06	
Total VOC	4.56	
Total HAP emissions are equal to 12.2% of VOC emissions ²		

Emission Factor References:

¹ United States Environmental Protection Agency. Compilation of Emission Factors: AP-42

² United States Environmental Protection Agency. Air Emissions Modeling Speciate 4.5 Model. Gasoline Profile 2455.

³ California Air Resource Board. Revised Emission Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities. CARB 12/23/2013.

⁴ Oregon Department of Environmental Quality. 2014 Oregon Gasoline Dispensing Facility VOC Emission Estimates and GDF Vapor Recovery System Impact Evaluation. DEQ 6/14/2018.

REVOCAION OF ASSIGNMENT

11. Any facility that fails to demonstrate compliance or fails to conform to the requirements and limitations contained in the permit may have its assignment to the General Permit revoked. The facility would then be subject to a more stringent level of permitting.

PUBLIC NOTICE

12. General Air Contaminant Discharge Permits are authorized by Oregon Administrative Rules and are part of the State Implementation Plan. As part of the General ACDP issuance process under OAR Chapter 340, Division 209, the public was provided at least 30 days to submit written comments. DEQ reviewed and respond to all comments pertaining to this permit and modified the permit prior to issuance.

AQGP-022r, gasoline dispensing facilities - stage I

g c e : 12/22/09; drd: 10/1/19