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Title 22@ Social Security

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Division 4.5@ Environmental Health Standards for the Management of Hazardous Waste

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Chapter 14@ Standards for Owners and Operators of Hazardous Waste Transfer, Treatment, Storage, and Disposal Facilities

|-&gt;

Article 28@ Air Emission Standards for Equipment Leaks

|-&gt;

Section 66264.1053@ Standards: Compressors

## **66264.1053 Standards: Compressors**

### **(a)**

Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of total organic emissions to the atmosphere, except as provided in subsections (h) and (i) of this section.

### **(b)**

Each compressor seal system as required in subsection (a) of this section shall be:

(1) operated with the barrier fluid at a pressure that is at all times greater than the compressor stuffing box pressure; or (2) equipped with a barrier fluid system that is connected by a closed-vent system to a control device that complies with the requirements of Section 66264.1060; or (3) equipped with a system that purges the barrier fluid into a hazardous waste stream with no detectable emissions to the atmosphere.

#### **(1)**

operated with the barrier fluid at a pressure that is at all times greater than the compressor stuffing box pressure; or

#### **(2)**

equipped with a barrier fluid system that is connected by a closed-vent system to a control device that complies with the requirements of Section 66264.1060; or

#### **(3)**

equipped with a system that purges the barrier fluid into a hazardous waste stream

with no detectable emissions to the atmosphere.

**(c)**

The barrier fluid shall not be a hazardous waste with organic concentrations ten percent or greater by weight.

**(d)**

Each barrier fluid system as described in subsections (a) through (c) of this section shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system or both.

**(e)**

(1) Each sensor as required in subsection (d) of this section shall be checked daily or shall be equipped with an audible alarm that shall be checked monthly to ensure that it is functioning properly unless the compressor is located within the boundary of an unstaffed plant site, in which case the sensor shall be checked daily. (2) The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.

**(1)**

Each sensor as required in subsection (d) of this section shall be checked daily or shall be equipped with an audible alarm that shall be checked monthly to ensure that it is functioning properly unless the compressor is located within the boundary of an unstaffed plant site, in which case the sensor shall be checked daily.

**(2)**

The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.

**(f)**

If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under subsection (e)(2) of this section, a leak is detected.

**(g)**

(1) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in Section 66264.1059. (2) A first attempt at repair (e.g., tightening the packing gland) shall be made as soon as possible, to minimize escape of hazardous constituents to the environment, but no later than 24 hours after each leak is detected.

**(1)**

When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in Section 66264.1059.

**(2)**

A first attempt at repair (e.g., tightening the packing gland) shall be made as soon as possible, to minimize escape of hazardous constituents to the environment, but no later than 24 hours after each leak is detected.

**(h)**

A compressor is exempt from the requirements of subsections (a) and (b) of this section if it is equipped with a closed-vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of Section 66264.1060, except as provided in subsection (i) of this section.

**(i)**

Any compressor that is designated, as described in Section 66264.1064(g)(2), for no detectable emissions as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of subsections (a)

through (h) of this section if the compressor: (1) is determined to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Section 66264.1063(c); and (2) is tested for compliance with subsection (i)(1) of this section initially upon designation, annually, and at any other time required by the Department upon a determination by the Department that testing for compliance is necessary to protect human health or the environment.

**(1)**

is determined to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Section 66264.1063(c); and

**(2)**

is tested for compliance with subsection (i)(1) of this section initially upon designation, annually, and at any other time required by the Department upon a determination by the Department that testing for compliance is necessary to protect human health or the environment.