CA

66264.1052 Standards: Pumps in Light Liquid Service

(a)

(1) Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in Section 66264.1063(b), except as provided in subsections (d), (e), and (f) of this section. (2) Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.

(1)

Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in Section 66264.1063(b), except as provided in subsections (d), (e), and (f) of this section.

(2)

Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.

(b)

(1) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. (2) If there are indications of liquids dripping from the pump seal, a leak is detected.

(1)

If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(2)

If there are indications of liquids dripping from the pump seal, a leak is detected.

(c)

(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 no later than one day (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 no later than one day (24 hours) after each leak is detected.

(d)

Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of subsection (a) of this section, provided the following requirements are met: (1) each dual mechanical seal system shall be: (A) operated with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; (B) equipped with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section 66264.1060; or (C) equipped with a system that purges the barrier fluid into a hazardous waste stream with no detectable emissions to the atmosphere. (2) The barrier fluid system shall not be a hazardous waste with organic concentrations 10 percent or greater by weight. (3) Each barrier fluid system shall be equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both. (4) Each pump shall be checked by visual inspection, each calendar week, for

indications of liquids dripping from the pump seals. (5) (A) Each sensor as described in subsections (d)(3) of this section shall be checked daily or be equipped with an audible alarm that shall be checked monthly to ensure that it is functioning properly. (B) 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. (6) (A) If there are indications of liquids dripping from the pump seal or the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in subsection (d)(5)(B) of this section, a leak is detected. (B) 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. (C) A first attempt at repair (e.g., relapping the seal) shall be as soon as possible, to minimize escape of hazardous constituents to the environment, but not later than 24 hours after each leak is detected.

(1)

each dual mechanical seal system shall be: (A) operated with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; (B) equipped with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section 66264.1060; or (C) equipped with a system that purges the barrier fluid into a hazardous waste stream with no detectable emissions to the atmosphere.

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to a control device that complies with the requirements of Section 66264.1060; or

(C)

equipped with a system that purges the barrier fluid into a hazardous waste stream with no detectable emissions to the atmosphere.

(2)

The barrier fluid system shall not be a hazardous waste with organic concentrations 10 percent or greater by weight.

(3)

Each barrier fluid system shall be equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both.

(4)

Each pump shall be checked by visual inspection, each calendar week, for indications of liquids dripping from the pump seals.

(5)

(A) Each sensor as described in subsections (d)(3) of this section shall be checked daily or be equipped with an audible alarm that shall be checked monthly to ensure that it is functioning properly. (B) 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.

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Each sensor as described in subsections (d)(3) of this section shall be checked daily or be equipped with an audible alarm that shall be checked monthly to ensure that it is functioning properly.

(B)

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.

(6)

(A) If there are indications of liquids dripping from the pump seal or the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in subsection (d)(5)(B) of this section, a leak is detected. (B) 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. (C) A first attempt at repair (e.g., relapping the seal) shall be as soon as possible, to minimize escape of hazardous constituents to the environment, but not later than 24 hours after each leak is detected.

(A)

If there are indications of liquids dripping from the pump seal or the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in subsection (d)(5)(B) of this section, a leak is detected.

(B)

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.

(C)

A first attempt at repair (e.g., relapping the seal) shall be as soon as possible, to minimize escape of hazardous constituents to the environment, but not later than 24 hours after each leak is detected.

(e)

Any pump 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), (c), and (d) of this section if the pump meets the following requirements: (1) the pump

shall have no externally actuated shaft that shall penetrate the pump housing; (2) the pump shall operate with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background as measured by the methods specified in Section 66264.1063(c); and (3) the pump must be tested for compliance with subsection (e)(2) of this section initially upon designation, annually, and at other times as required by the Department.

(1)

the pump shall have no externally actuated shaft that shall penetrate the pump housing;

(2)

the pump shall operate with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background as measured by the methods specified in Section 66264.1063(c); and

(3)

the pump must be tested for compliance with subsection (e)(2) of this section initially upon designation, annually, and at other times as required by the Department.

(f)

If any pump is equipped with a closed-vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of Section 66264.1060, it is exempt from the requirements of subsections (a) through (e) of this section.