

RULE 416 OIL-EFFLUENT WATER SEPARATORS
(Adopted 12/11/79; revised 9/14/99)

A Applicability

- A.1 This rule applies to any compartment, vessel, or device operated for the recovery of oil from effluent water, which recovers 200 gallons or more petroleum in any one day, from any equipment which processes, refines, stores, or handles hydrocarbons with a Reid vapor pressure of 0.5 pounds per square inch or greater.
- A.2 Terms applicable to this rule are defined in Rule 101 - Definitions.

B Requirements

- B.1 A person shall not use any compartment of any single or multiple compartment Oil-Effluent Water Separator unless such compartment is equipped with one of the vapor loss control devices specified in B.2 through B.5.
- B.2 A fixed cover with all openings sealed and totally enclosing the liquid contents, except for breathing vents that are structurally necessary.
- B.3 A floating pontoon or double-deck type cover, resting on the surface of the liquid contents and equipped with primary and secondary closure seals, to close the space between the cover and container wall.
- B.4 A vapor recovery system, which reduces the emission of all hydrocarbon vapors and gases into the atmosphere by at least 90 percent by weight.
- B.5 Other control equipment of equal or greater efficiency than the equipment specified in Sections B.1 through B.4, above, provided equipment specifications are submitted to, and approved by the Air Pollution Control Officer.

C Specifications for Covers

- C.1 Covers for oil-water separators shall be impermeable to ROCs, and free from holes or openings.
- C.2 Any gauging or sampling devices on the compartment cover shall be covered and these covers shall be kept closed except when the sampling device is being used.
- C.3 Hatches on covers shall be kept closed and free of gaps, except when opened for inspection, maintenance or repair.

- C.4 The perimeter of a fixed cover, shall form a seal free of gaps with the foundation to which it is installed.

D Compliance and Record keeping

- D.1 Any facility claiming an exemption to the rule pursuant to Section A.1 shall keep records to substantiate the requested exempt status and shall determine the Reid Vapor Pressure in accordance with the procedure identified in Section E.1.a.
- D.2 Any person using an emission control device or system pursuant to Sections B.4 and B.5, as a means of complying with provisions of this rule, shall maintain operating and maintenance data records for the purpose of demonstrating continuous compliance during periods of emission producing activities.
- D.3 Vapor return and vapor recovery systems used to comply with the provisions of this rule shall comply with all safety, fire, weights and measures, and other applicable rules and regulations.
- D.4 Each calendar month, Oil- Effluent Water Separators shall be inspected for liquid and vapor leaks. Any leaks detected shall be recorded. Appropriate corrective action to minimize or eliminate the leak shall occur within 48 hours. Any leak must be repaired within 15 days of detection. Ant leaks discovered by Air Pollution Control District staff during an inspection constitutes a violation of the Rule.
 - D.4.a A log of the monthly leak inspection shall be kept on file at the facility. At a minimum, the log shall record shall contain, the date of inspection, findings (indicate if leaks are discovered, location, nature, and severity of each leak, or if no leaks are discovered), the leak determination method, any corrective action (date each leak repaired and reasons for any repair interval in excess of 15 calendar days), and the name and signature of the person performing the inspection.
- D.5 Any record required or produced pursuant to this rule shall be retained on site for a minimum of two (2) years and shall be made available to the APCO upon request.

E Test Methods for Compliance Verification

- E.1 Compliance with the rule shall be determined using the following test methods. A violation determined by any one of these test methods shall constitute a violation of the rule.

- E.1.a ASTM D 323-82 (Vapor Pressure of Petroleum Products, Reid Method) shall be used to determine the Reid vapor pressure of petroleum products.
- E.1.b ARB Method TP203.1 Determination of Emission Factor of Vapor Recovery Systems of Terminal, shall be used to determine control device efficiency.
- E.1.c Liquid leaks shall be measured by observing the number of drops per minute. A leak exists when the dripping rate exceeds three or more drops per minute of liquid containing reactive organic compounds.
- E.1.d Vapor leaks shall be determined using EPA Method 21 (Determination of Volatile Organic Compound Leaks), as specified in 40 CFR 60 Appendix A.