

(Source: Amended at 12 III. Reg. 815, effective December 24, 1987)

Section 215.444 Process Unit Turnarounds

a) No owner or operator of a petroleum refinery shall cause or allow a refinery process unit turnaround except in compliance with an operating procedure as approved by the Agency.

b) Unless a procedure is already on file with the Agency as part of an approved operating permit no later than November 1, 1979, the owner or operator of a petroleum refinery shall submit to the Agency for approval a detailed procedure for reducing emissions of volatile organic material during refinery process unit turnarounds from organic material with a vapor pressure of 10.34 kPa (1.5 psia) or greater at 294.3°K (70°F). The Agency shall not approve the procedure unless it provides for:

1) Depressurization of the refinery process unit or vessel to a flare, refinery fuel gas system or other equipment or system of equal emission control, as approved by the Agency, until the internal pressure from the vessel or unit is less than 5.0 psig before allowing the vessel to be vented to the atmosphere;

2) Recordkeeping of the following items:

A) Each date that a refinery unit or vessel is shut down; and

B) The total estimated quantity of volatile organic material emitted to the atmosphere and the duration of the emission in hours.

(Source: Amended at 12 III. Reg. 815, effective December 24, 1987)

Section 215.445 Leaks: General Requirements

The owner or operator of a petroleum refinery shall:

a) Develop a monitoring program plan consistent with the provisions of Section 215.446;

b) Conduct a monitoring program consistent with the provisions of Section 215.447;

c) Record all leaking components which have a volatile organic material concentration exceeding 10,000 ppm consistent with the provisions of Section 215.448;

d) Identify each component consistent with the monitoring program plan submitted pursuant to Section 215.446;

e) Repair and retest the leaking components as soon as possible within 22 days after the leak is found, but no later than June 1 for the purposes of Section 215.447(a)(1), unless

the leaking components cannot be repaired until the unit is shut down for turnaround; and

f) Report to the Agency consistent with the provisions of Section 215.449.

(Source: Amended at 7 III. Reg. 1244, effective January 21, 1983)

Section 215.446 Monitoring Program Plan for Leaks

The owner or operator of a petroleum refinery shall prepare a monitoring program plan which contains, at a minimum:

a) An identification of all refinery components and the period in which each will be monitored pursuant to Section 215.447;

b) The format for the monitoring log required by Section 215.448;

c) A description of the monitoring equipment to be used pursuant to Section 215.447; and

d) A description of the methods to be used to identify all pipeline valves, pressure relief valves in gaseous service and all leaking components such that they are obvious to both refinery personnel performing monitoring and Agency personnel performing inspections.

(Source: Amended at 7 III. Reg. 1244, effective January 21, 1983)

Section 215.447 Monitoring Program for Leaks

a) The owner or operator of a petroleum refinery subject to Section 215.445 shall, for the purpose of detecting leaks, conduct a component monitoring program consistent with the following provisions:

1) Test all pressure relief valves in gaseous service, pump seals, pipeline valves, process drains and compressor seals by methods and procedures approved by the Agency not earlier than March 1 or later than June 1 of each year;

2) Again test all pressure relief valves in gaseous service, pipeline valves in gaseous service and compressor seals by methods and procedures approved by the Agency not earlier than June 1 or later than August 1 of each year;

3) Observe visually all pump seals weekly;

4) Test immediately any pump seal from which liquids are observed dripping;

5) Test any relief valve within 24 hours after it has vented to the atmosphere; and

6) Test immediately after repair any component that was found leaking.