Summary Flow Diagrams of the Gasoline Distribution MACT Standard (40 CFR part 63, subpart R)

April 1997

Update since 2/13/95.
Rule changes are shown in italics.

Waste and Chemical Processes Group

Emission Standards Division

U.S. Environmental Protection Agency

Research Triangle Park, NC 27711

NOTE: The following 7 diagrams provide only a summary of the requirements of the standards and do not supersede the standards in any manner. Compliance determinations are based on the standards published in the Code of Federal Regulations.

FIGURE 1. SUMMARY OF MACT APPLICABILITY *

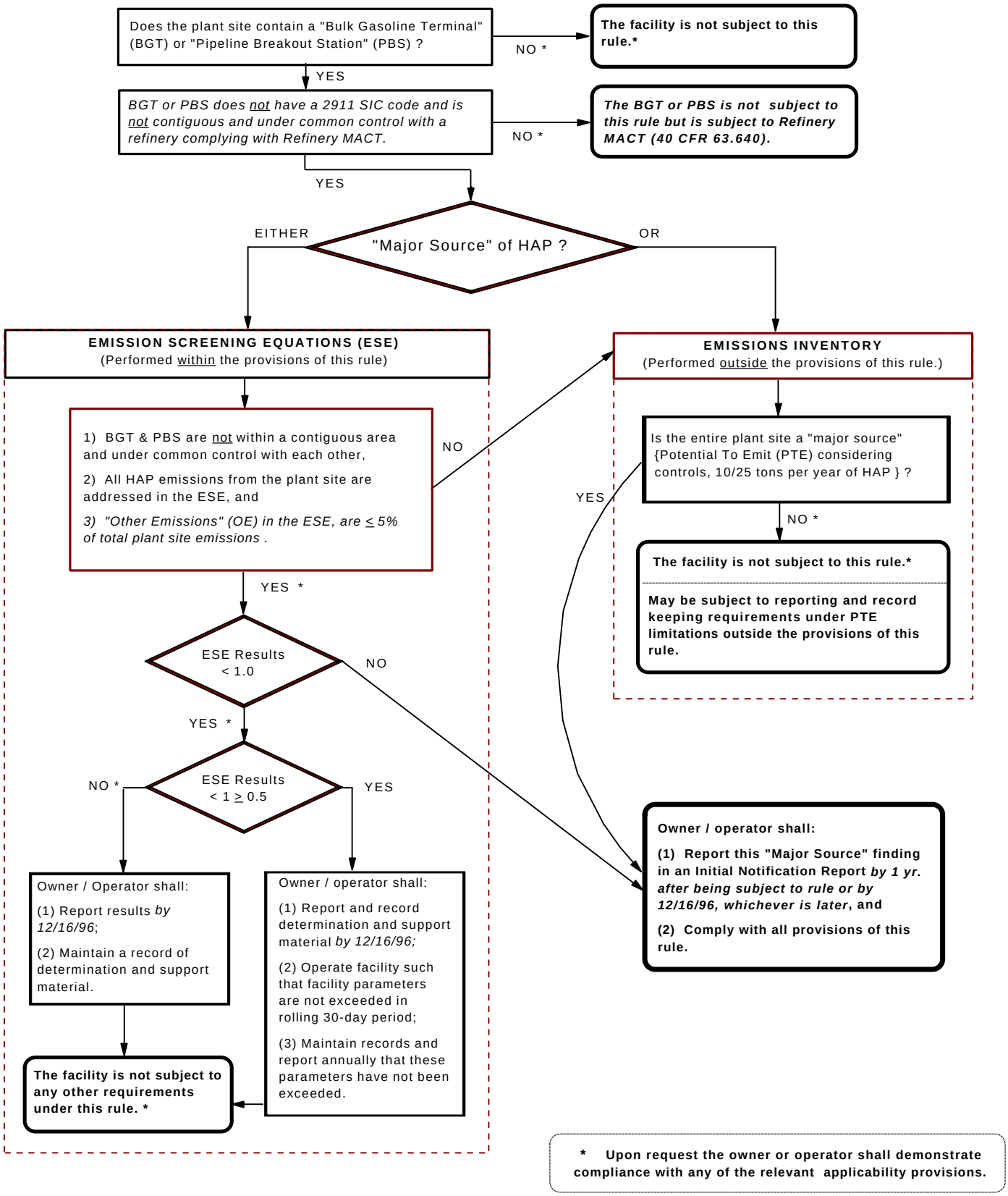


FIGURE 2. SUMMARY OF STANDARDS FOR TANK TRUCK AND RAILCAR (CARGO TANK) LOADING RACKS

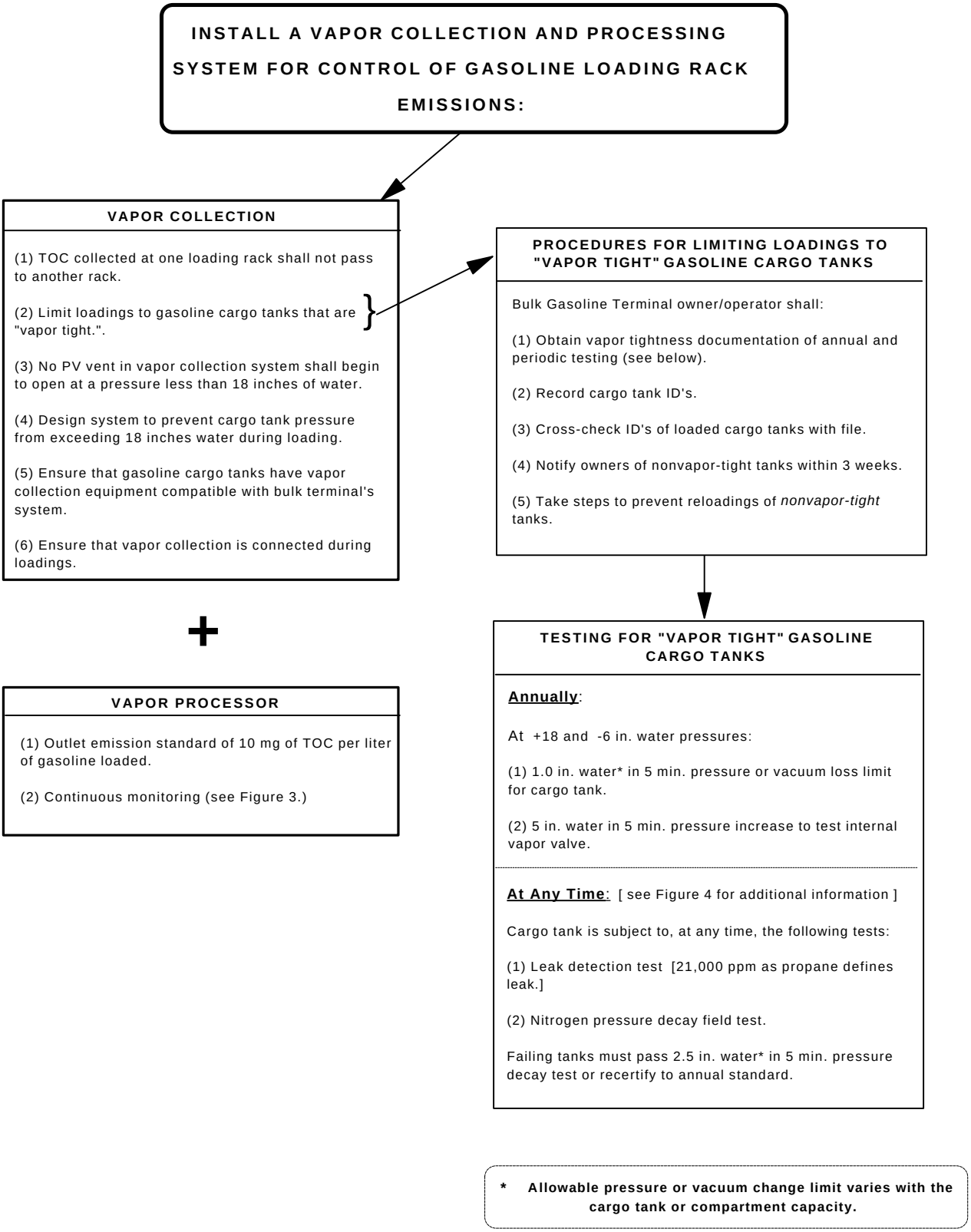


FIGURE 3. SUMMARY OF CONTINUOUS MONITORING REQUIREMENTS FOR LOADING RACK AND STORAGE VESSEL VAPOR PROCESSORS

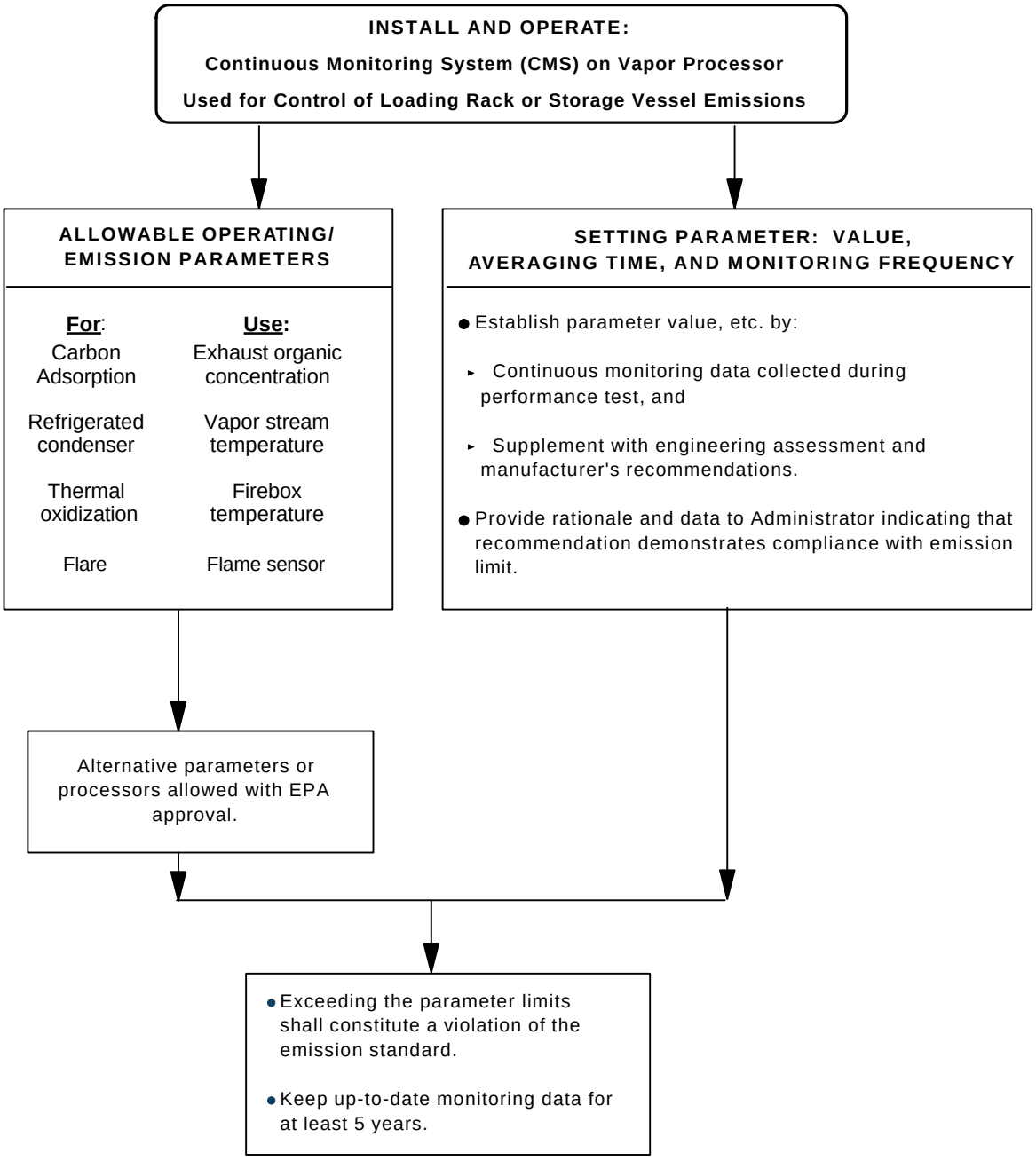
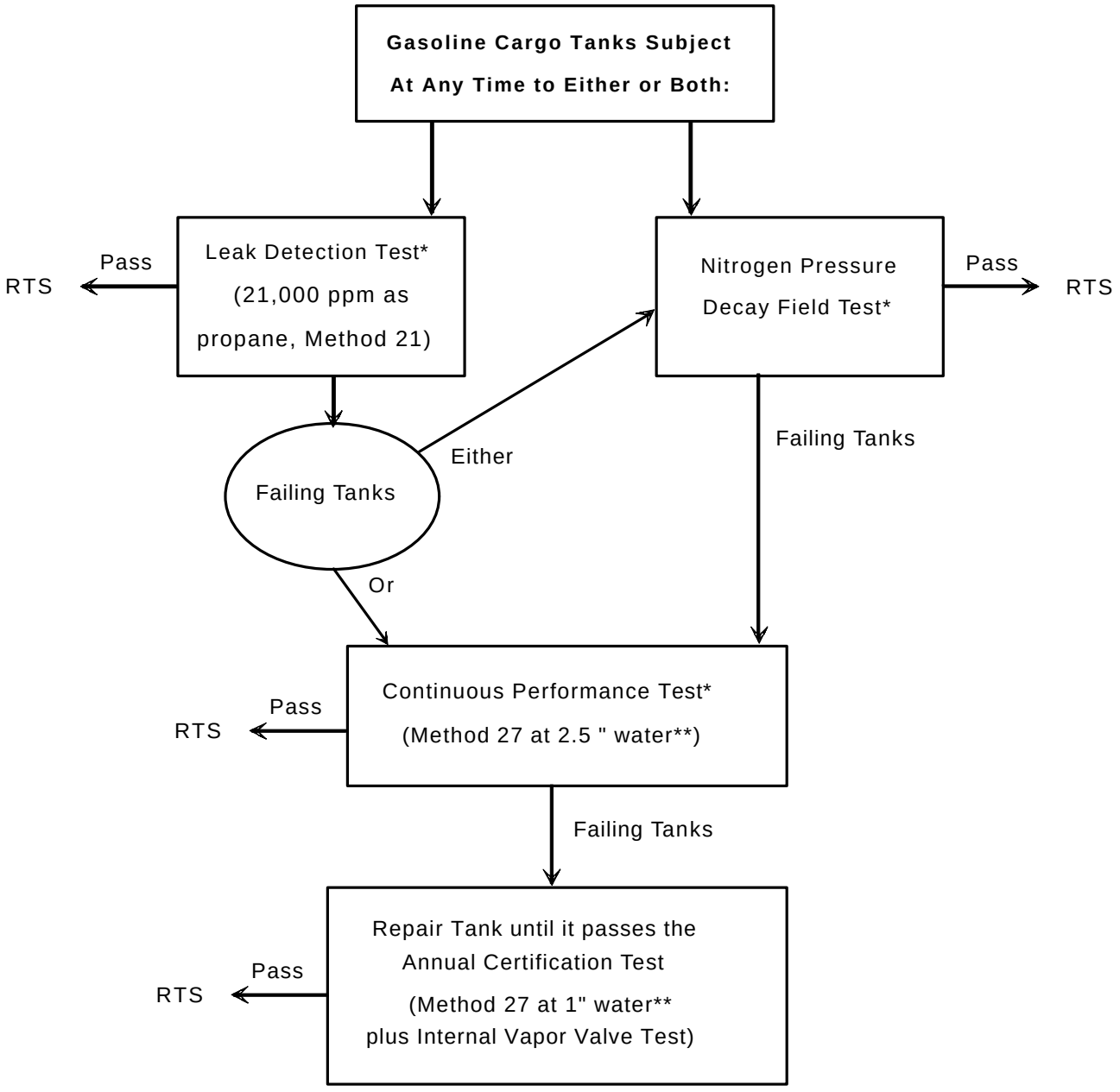


FIGURE 4. SUMMARY OF VAPOR TIGHT GASOLINE CARGO TANK YEAR-ROUND (At Any Time) STANDARDS

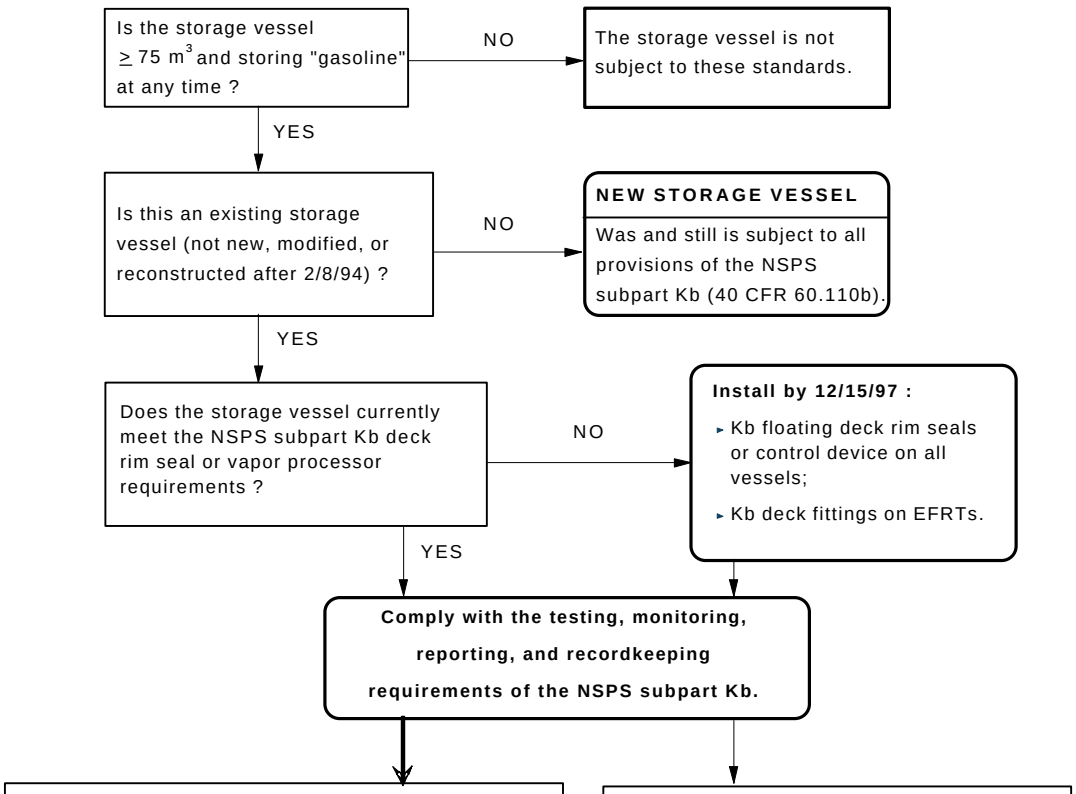


RTS: Return To Service

* Prior to repair. If maintenance performed before or during test, the tank must pass the Annual Certification Test before RTS.

** Allowable pressure or vacuum change limit varies with the cargo tank or compartment capacity.

FIGURE 5. SUMMARY OF STANDARDS FOR STORAGE VESSELS



TESTING AND MONITORING

- Visually inspect IFRT and repair defects:
  - (1) Prior to filling.
  - (2) Annually for liquid-mounted or mechanical shoe primary seals.
  - (3) Every 5 years for primary/secondary seal systems.
- Measure seal gaps on EFRT and repair defects:
  - (1) During hydrostatic testing and every 5 years thereafter.
  - (2) Within 60 days of initial fill and annually thereafter.
- Visually inspect EFRT each time vessel is emptied and degassed.
- Fixed-roof storage vessel control device:
  - (1) Demonstrate control device will achieve 95% control efficiency.
  - (2) Continuous monitoring under subpart R (see Figure 3).

REPORTING AND RECORDKEEPING

- Keep records of each inspection.
- Report any defects found (30 days).
- Report seal gap measurement data (60 days).
- Report control device description and performance.
- Keep records of control device operation (see Figure 3).
- Keep records of product true vapor pressure.
- Keep all records for 5 years.

FIGURE 6. SUMMARY OF STANDARDS FOR EQUIPMENT LEAKS

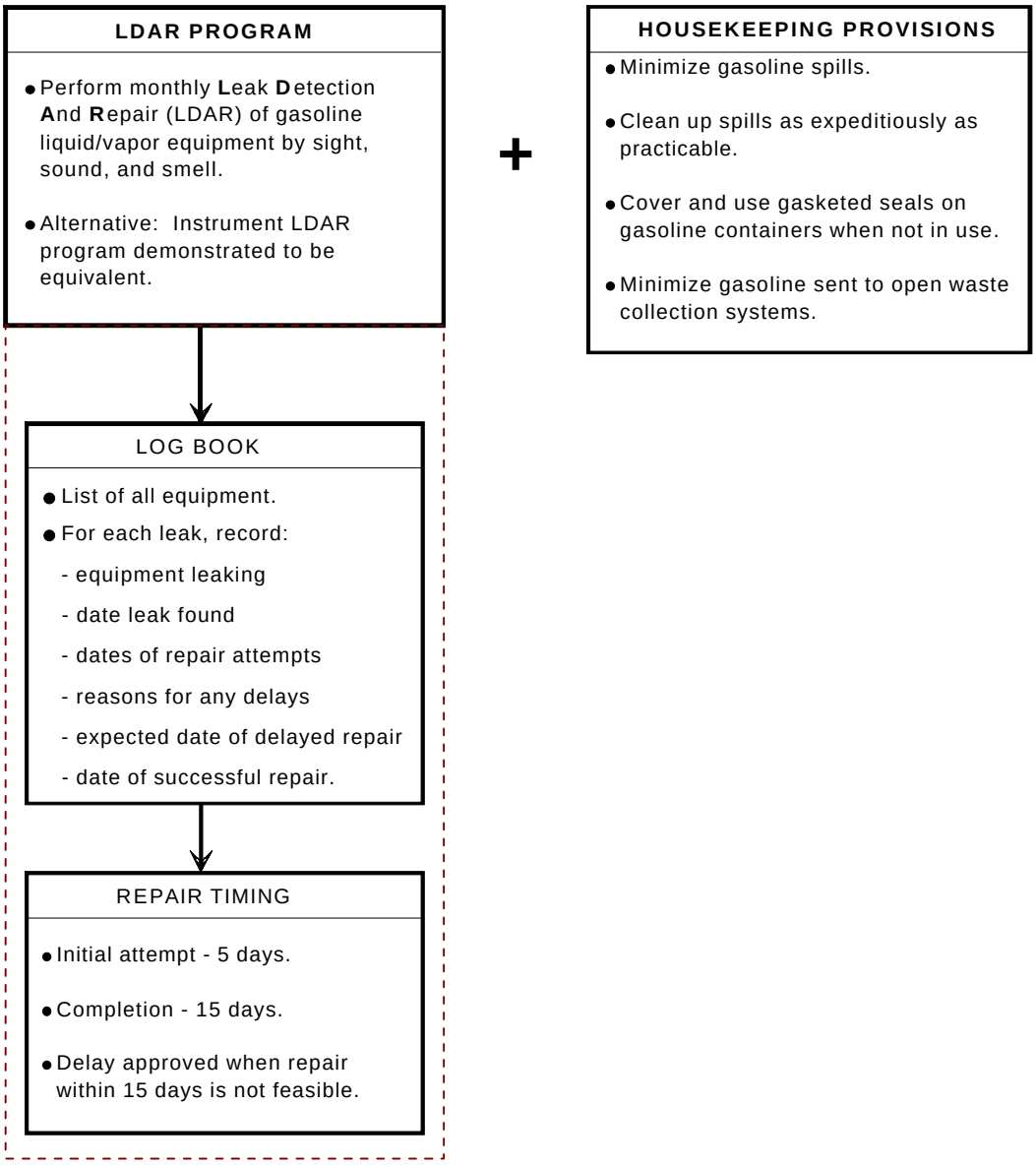


FIGURE 7. SUMMARY OF MAJOR REPORTING REQUIREMENTS

INITIAL NOTIFICATION REPORT

Existing Major Sources: *Within 1 Yr. after becoming subject to rule or by 12/16/96, whichever is later*.

New or Reconstructed Major Sources: no later than 120 days after initial startup.

- Name & address of owner or operator.
- Address of the source.
- Identification of the rule and source's compliance date.
- Description of operations, design capacity, and HAP emission points.
- Statement of whether a major or area source.
- Notification of intent to construct or startup date for new or reconstructed sources.
- Report if using Emission Screening Equation, including in some cases supporting documentation.
- *Report non-binding description of and schedule for the actions planned to achieve area source status, if major source on 12/16/96 but plan to be area source on 12/15/97.*

NOTIFICATION OF COMPLIANCE STATUS REPORT

60 Days Following Compliance Demonstration

- Methods used to determine compliance.
- Results of performance tests and/or CMS performance evaluations.
- Methods to be used to determine continuing compliance.
- Type and quantity of HAP emitted.
- Analysis demonstrating whether a major or area source.
- Description of control equipment and efficiencies.
- Statement as to whether source has complied with standard.
- Data, calculations, engineering assessments, and manufacturer's recommendations used to determine operating parameter value.

PERIODIC REPORTS

Normal Semiannual (no excess emissions)	**Quarterly** (excess emissions)
Additional under R: • Loading of cargo tanks for which vapor tightness documentation was not on file at the facility. • Storage vessel reports under subpart Kb. • Number of leaks not repaired within 5 days after detection.	Additional under R: • Exceedances of continuous monitoring system operating parameter value. • Failures of owners/operators to take steps to prevent reloadings of nonvapor tight gasoline cargo tanks. • Reloadings of nonvapor tight gasoline cargo tanks • Equipment leaks for which repair is not attempted in 5 days or completed in 15 days.