SUMMARY FLOW DIAGRAMS Gasoline Distribution MACT (40 CFR part 63, subpart R)

February 1, 1995

(with revised Fig. 1 & 4)

Waste and Chemical Processes Group

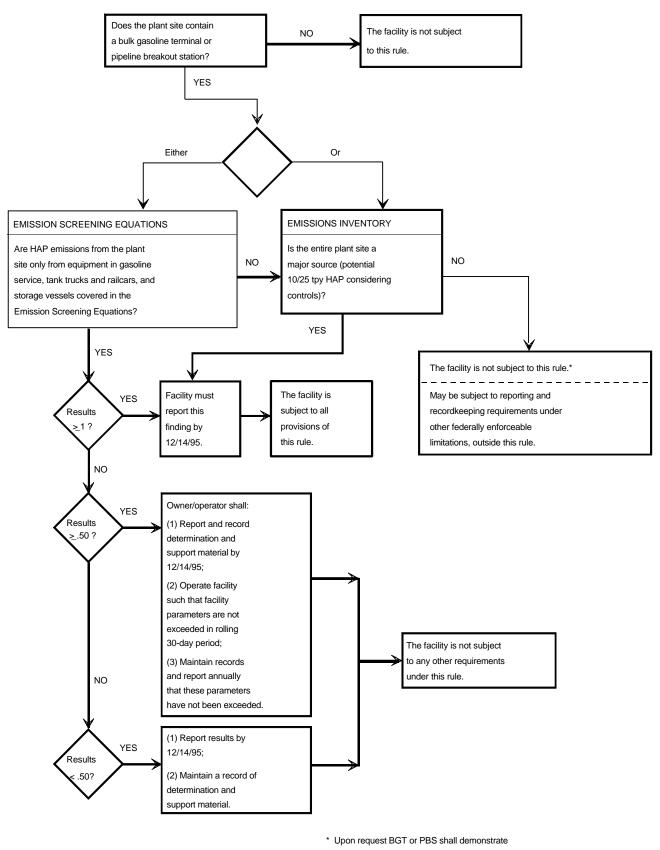
Emission Standards Division

U.S. Environmental Protection Agency

Research Triangle Park, NC 27711

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

FIGURE 1. SUMMARY OF MACT APPLICABILITY*



Upon request BGT or PBS shall demonstrate compliance with any of the relevant applicability provisions.

FIGURE 2. SUMMARY OF BULK TERMINAL LOADING RACK STANDARDS FOR TANK TRUCKS AND RAILCARS (CARGO TANKS)

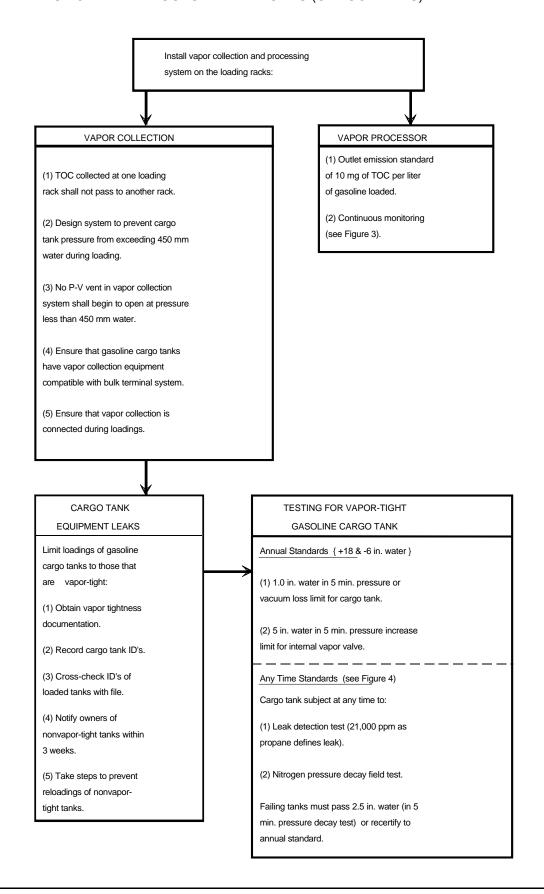


FIGURE 3. SUMMARY OF CONTINUOUS MONITORING REQUIREMENTS FOR LOADING RACK AND STORAGE VESSEL VAPOR PROCESSORS

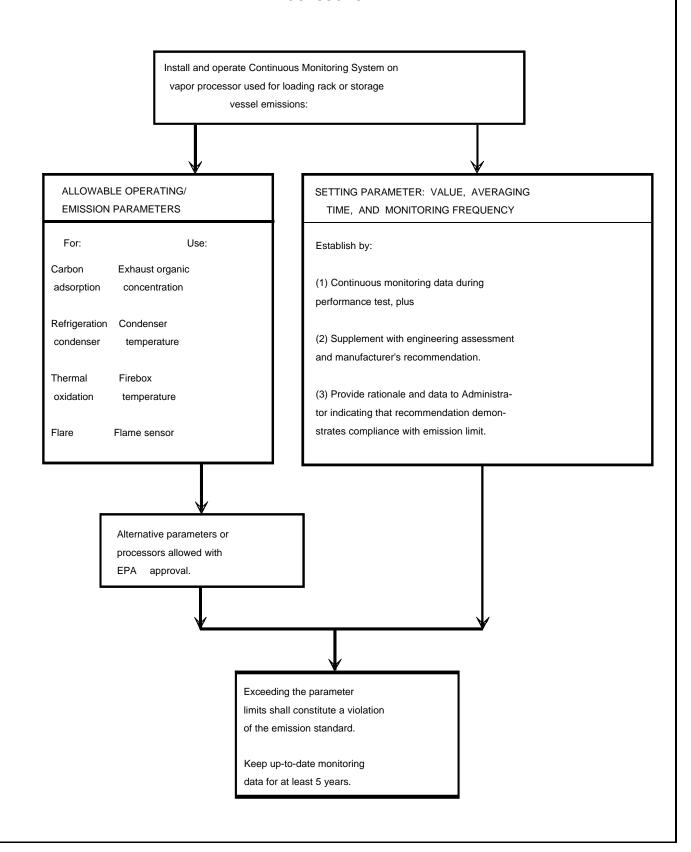
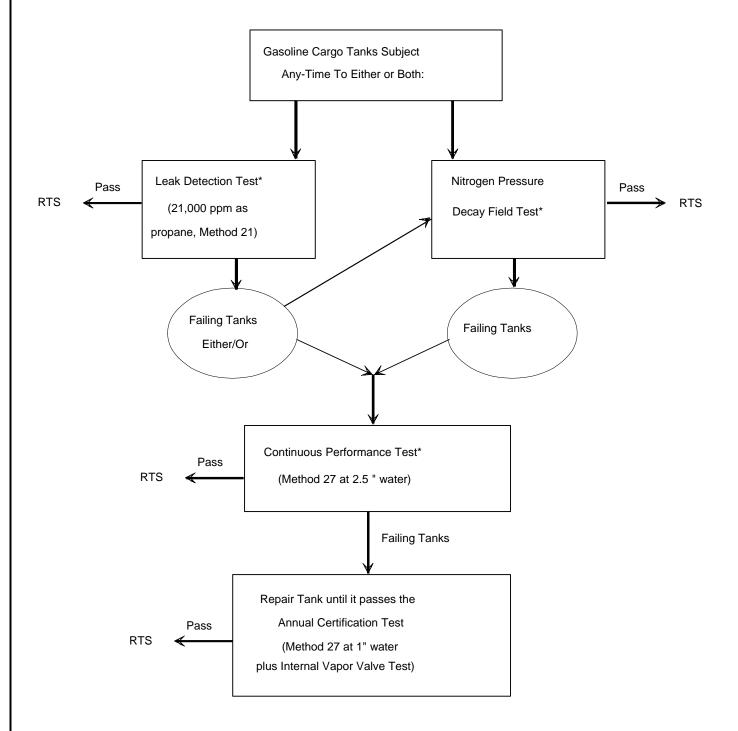


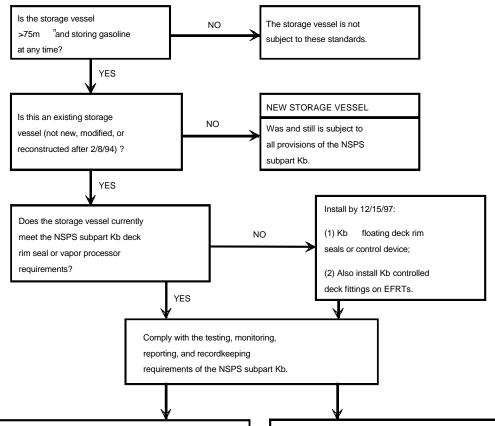
FIGURE 4. VAPOR-TIGHT GASOLINE CARGO TANK YEAR-ROUND (ANY-TIME) STANDARD



RTS: Return To Service

^{*} Pior to repair. If maintenace performed before or during test, the tank must pass the Annual Certification Test before RTS.

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:
 - Demonstrate control device will achieve
 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

LDAR PROGRAM

- Perform monthly leak detection and repair (LDAR) of gasoline liquid/vapor equipment by sight, sound, and smell.
- Alternative: Instrument LDAR progam demonstrated to be equivalent.

LOG BOOK

- · List of all equipment.
- · For each leak, record:
 - equipment leaking
 - date leak found
 - dates of repair attempts
 - reasons for any delays
 - expected date of delayed repair
 - date of successful repair.

REPAIRS

- · Initial attempt 5 days.
- · Completion 15 days.
- · Delay approved when repair within 15 days is not feasible.

HOUSEKEEPING PROVISIONS

- · Minimize gasoline spills.
- · Clean up spills as expeditiously as practicable.
- Cover and use gasketed seals on gasoline containers.
- Minimize gasoline sent to open waste collection systems.

FIGURE 7. SUMMARY OF MAJOR REPORTING REQUIREMENTS

INITIAL NOTIFICATION REPORT

(Within 1 Yr for existing sources):

- · Name/address of owner or operator.
- · Address of the source.
- · Identification of rule and source's compliance date.
- Description of operations, design capacity, and HAP emission points.
- Statement of whether is a major or area source.
- Notification of intent to construct or startup date for new or reconstructed sources.

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 recomendations used to determine operating parameter value.

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