

DRAFT Performance Standards for In-Station Diagnostics (to be incorporated into CP-201)

All Phase II vapor recovery systems shall have in-station diagnostic (ISD) systems designed to monitor and electronically record the operating parameters indicated below. Data points shall be recorded at minimum intervals of five minutes, and shall be stored electronically for a minimum of 12 months. The failure mode responses of the system are as defined below. Any device designed to silence an audible alarm shall do so for time periods not to exceed eight hours; the system shall continue to sound the alarm and record failures until the problem is corrected. The time and date of all failures shall be electronically recorded for a minimum of 12 consecutive months following the failure. A hard copy, or quickly and easily downloaded electronic copy, of all data points and failures for the previous 12 consecutive months shall be stored at the facility and made available upon request.

Systems using designs incompatible with the following requirements will be evaluated for the capability of providing similar assurance of vapor recovery system on a case by case basis.

Vapor Collection at the Nozzle/Fillpipe Interface

Assist Systems

- ◆ An audible alarm will sound if the following failure mode is detected:
 - ◆ A/L ratio less than 25% of the lowest A/L allowed.

- ◆ All fueling points associated with the vacuum producing device shall be automatically shut down if the following failure modes are detected:
 - ◆ Two or more A/L ratios of zero in any 24 clock-hour period..
 - ◆ A/L ratios less than 25% of the lowest A/L allowed for two consecutive fuelings
 - ◆ Five or more A/L ratios less than 25% of the lowest A/L in any 24 clock-hour period.

Vapor Retention in the Underground Storage Tank Vapor Space

Vapor Recovery Systems Certified to Maintain Continuously Negative Vacuum Storage Tank Headspace Pressures.

- ◆ An audible alarm will sound if the following failure mode is detected:
 - ◆ Pressure exceeds -0.1 inch water column (w.c.) for:
 - ◆ more than 1 consecutive hour, or
 - ◆ more than 3 hours in any 24 clock-hour period.

All other Vapor Recovery Systems

- ◆ An audible alarm will sound if the following failure mode is detected:
 - ◆ Pressure exceeds 0.25 inches w.c. for:
 - ◆ more than 1 consecutive hour, or
 - ◆ more than 3 hours in any 24 clock-hour period.
 - ◆ Pressure exceeds 1.0 inches w.c. for more than 1 hour in any 24 clock-hour period.
 - ◆ The diagnostic system detects a failure to maintain ongoing compliance with the static pressure decay test criteria.

Processor

Failure criteria for the processor will be developed individually for each system. The ISD system shall require automatic shut-down of all fueling points if timely corrective action is not taken, as well as alarm mode and storage of data points and failures.