

## Required Documentation for Electronic Line Leak Detectors

By Rule, line leak detectors are required for pressurized piping, except for bulk product piping<sup>1</sup>. Line leak detectors may be mechanical (MLLD) or electronic (ELLD). ELLDs may also be referred to as Pressurized Line Leak Detectors (PLLD) or Volumetric Line Leak Detectors (VLLD). This document addresses the testing requirements and documentation that shall be kept for ELLDs. The rule citations supporting this document can be found in Attachment 1.

The ELLD must be programmed to perform the 3.0 gph line leak test during normal pump / dispenser operations and must shut off power to the pump when a 3.0 gph leak is detected<sup>2</sup>. The ELLD must also provide an audible or visual alarm when a discharge of 0.2 gph is detected<sup>3</sup>. The ELLD must be function tested for a 3.0 and 0.2 gph line leak annually<sup>4</sup>.

The following must be kept for a minimum of two years and made available for review within five working days<sup>5</sup>:

- Documentation of a passing annual operability test of the ELLD performed in accordance with the manufacturer's requirements for both a 3.0 gph and 0.2 gph line leak.

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<sup>1</sup> Fla. Admin. Code R. 62-761.600(1)(i)

<sup>2</sup> Fla. Admin. Code R. 62-761.640(4)(a)1, 4

<sup>3</sup> Fla. Admin. Code R. 62-761.640(4)(a)4

<sup>4</sup> Fla. Admin. Code R. 62-761.640(4)(a)2,4

<sup>5</sup> Fla. Admin. Code R. 62-761.710(1),(2)

# Attachment 1

## Rule Citations

Rule 62-761.600(1)(i), F.A.C. states that pressurized piping, excluding bulk product piping, shall be equipped with a line leak detector that meets the standards of paragraph 62-761.640(4)(a), F.A.C. Gravity piping systems are exempt from this requirement.

Rule 62-761.640(4)(a)1, F.A.C., states that line leak detectors shall be capable of detecting a discharge of 3.0 gph with a probability of detection of 0.95 and a probability of false alarm of 0.05 at a line pressure of 10 psi within one hour.

Rule 62-761.640(4)(a)2, F.A.C. states that line leak detectors shall have an annual test of the operation of the leak detector conducted in accordance with the manufacturer's requirements by an individual certified or trained by the manufacturer to determine whether the device is functioning as designed. Remote testing of the leak detector can be performed by the manufacturer if the remote test is approved under subsection 62-761.850(2), F.A.C.

Rule 62-761.640(4)(a)4, F.A.C., states that when a discharge of 3.0 gph is detected, shut off power to the pump if designed with automatic electronic shutoff. When in test mode, line leak detectors with automatic electronic shutoff shall also be able to detect a discharge of 0.2 gph at a line pressure of 150% of operating pressure, or an equivalent leak rate, with a probability of detection within a one month period of at least 0.95 and a probability of false alarm of no more than 0.05. When a discharge of 0.2 gph is detected, the leak detector shall provide audible or visual alarms that can be clearly heard or seen by the operator of the facility, or if monitored remotely on a real time basis, the alarm condition must be immediately transmitted from the remote location to the facility operator

Rule 62-761.710(1), F.A.C. states that all records shall be dated, maintained in permanent form, and available for inspection by the Department or County. If records are not kept at the facility, they shall be made available at the facility or another agreed upon location upon five working days notice. Site access to the facility shall be provided for compliance inspections conducted at reasonable times.

Rule 62-761.710(2), F.A.C. states that records of the following are required to be kept for two years: (a) Measurements and reconciliations of inventory, as applicable; (b) Repair, operation, and maintenance records; (c) Release detection results, including electronic test results, regardless of the frequency, and monthly visual inspections performed in accordance with paragraph 62-761.640(2)(e), F.A.C. The presence of a regulated substance's odor, sheen, or free product shall be recorded for each sampling event; (d) Release detection response level descriptions; (e) A copy of all test data and results gathered during tightness tests, pressure tests, and breach of integrity tests, and the name and type of the test approved under Rule 62-761.850, F.A.C.; (f) Certification of Financial Responsibility on Form 62-761.900(3); (g) Records of types of fuels stored per tank; and (h) The repair or replacement of gaskets, valve packings, valves, flanges, and connection/disconnection fittings for bulk product piping if the repair or replacement is performed in response to a discharge or loss of regulated substances.