

## Inspection Procedure **GDF-09**

### **Gasoline Dispensing Facilities**

#### **PHASE II BALANCE SYSTEM NOZZLE INSERTION INTERLOCK OPERATION DETERMINATION**

##### **1. PURPOSE**

- 1.1 The purpose of this inspection procedure is to provide a methodology to determine the compliance status of the insertion interlock mechanism of Phase II balance system nozzles.

##### **2. PRINCIPLE AND SUMMARY**

- 2.1 The insertion interlock mechanism of the nozzle is checked to ensure that fuel cannot be dispensed without activating the dispenser and compressing the nozzle bellows.

##### **3. BIASES AND INTERFERENCES**

- 3.1 If the bellows of the balance system nozzle is not fully compressed during the procedure specified in Section 5.2, results may be biased toward noncompliance.
- 3.2 If the proper methodology for the specific nozzle type is not employed the results may be biased toward noncompliance.

##### **4. EQUIPMENT**

- 4.1 **Approved Gas Can.** Use an approved gas can to hold any gasoline that may be dispensed during testing.
- 4.2 **Stopwatch.** Use a stopwatch accurate to  $\pm 0.2$  seconds.
- 4.3 **Field Data Sheet.** Use a data sheet to record which nozzles have been tested and their respective compliance status. This field data sheet will help ensure, and verify, that all nozzles have been checked on a routine basis. An example of a Field Data Sheet is shown in Form 1.

##### **5. INSPECTION PROCEDURE**

- 5.1 The following nozzles may be tested for proper operation of the insertion interlock **WITHOUT** activating the dispenser:

Emco Wheaton A4000	Emco Wheaton A4003
Rainbow RA4000	Emco Wheaton A4005
Emco Wheaton A4001	Rainbow RA4005
Rainbow RA4001	EZ-flo Rebuilt A4000
Emco Wheaton A4002	EZ-flo Rebuilt A4001
OPW-111V	Husky Model V

- 5.2 If the nozzle to be tested is listed in Section 5.1, remove the nozzle from the dispenser holster. **DO NOT ACTIVATE THE DISPENSER.** Carefully tip the nozzle spout into the gas can to collect any retained gasoline. **WITHOUT COMPRESSING THE BELLOWS,** pull the nozzle trigger.
- 5.3 Note if the trigger had, or did not have, tension on the Field Data Sheet, as shown in Form 1. Tension on the trigger without the bellows being depressed indicates that the interlock is not working properly and that the nozzle must be repaired or replaced.
- 5.4 If the nozzle is not on the list in Section 5.1, activate the dispenser and place the nozzle spout tip so that any dispensed gas would flow into the approved gas can but so that the **BELLOWS ARE NOT COMPRESSED.** (In addition, any bellows-equipped balance nozzle may be tested using this method. However, testing nozzles listed in Section 5.1 using this method may create unnecessary emissions caused by the “spitting” or spilling of retained gasoline.)
- 5.5 Simultaneously pull the nozzle trigger and start the stopwatch. Observe whether gasoline continues to flow after 2 seconds. Release the trigger. If fuel continues to be dispensed after 2 seconds, the insertion interlock is not working properly and the nozzle must be repaired or replaced.
- 5.6 Carefully empty the gasoline from the gas can into the LOWEST OCTANE Phase I product riser, as necessary.

## 6. RECORDING DATA

- 6.1 Complete the station information at the top of Form 1 and record the following information:
- a) Dispenser Number
  - b) Gasoline Octane or Grade
  - c) Nozzle Make and Model Number
  - d) Was Trigger Tension Noted or
  - e) Was Fuel Dispensed After Two Seconds
  - f) Name of Person Conducting the Test and Test Date

