# **Executive Order VR-209-A VST Phase II EVR System with Clean Air Separator**

# Exhibit 3 **Performance Standards and Specifications**

## Part I - VST Manufacturing Performance Standards and Specifications

The VST Phase II EVR System and all components shall be manufactured in compliance with the performance standards and specifications in CP-201 (amended May 25, 2006), as well as the requirements specified in this Executive Order. All components (Exhibit 1) shall be manufactured as certified; no change to the equipment, parts, design, materials or manufacturing process shall be made unless approved in writing by the Executive Officer or Executive Officer delegate. Unless specified in Exhibit 2 or in the ARB Approved Installation, Operation and Maintenance Manual, the requirements of this section apply to the manufacturing process and are not appropriate for determining the compliance status of a gasoline dispensing facility.

#### 1. NOZZLES

Every nozzle shall be tested at the factory. Every nozzle shall have affixed to it a card or label stating the performance specifications listed below, and a statement that the nozzle was tested to, and met, the following specifications.

- The nozzle vapor valve leak rate shall not exceed 0.07 cubic feet per hour (CFH) a. at a pressure of +2 inches water column (WC) when tested in accordance with the latest version of TP-201.2B.
- b. The nozzle automatic shut off feature is tested at all service clip settings as well as handheld in accordance with Underwriters Laboratories (UL) Standard 842.
- The nozzle's primary and secondary shut-off mechanism shall be identical to the C. design that passed the California Department of Food and Agriculture Division of Measurement Standards Article 2 (DMS 6-6-97).
- d. The nozzle is manufactured to the specifications that passed all tests conducted during the ARB certification for the following:

TP-201.2C - Spillage from Phase II Systems TP-201.2D - Post Fueling Drips from Nozzles TP-201.2E - Gasoline Liquid Retention and Spitting in Nozzles and Hoses TP-201.2J

- Nozzle Pressure Drop

- The nozzle vapor collection boot is manufactured such that the force necessary e. to compress the nozzle bellows 0.5 inches is in the range of 10-16 pounds force.
- f. The terminal end of each nozzle shall be manufactured in accordance with the specifications referenced in Section 4.7.3 of CP-201.

## 2. COAXIAL HOSES

- a. Every coaxial hose is tested for continuity and pressure tests in accordance with UL Standard 330.
- b. Every coaxial hose is manufactured to the standards and specifications that passed all tests conducted during the ARB certification for the following:

Exhibit 5 - Liquid Removal Test Procedure (for curb hoses)TP-201.2J - Hose Pressure Drop (for curb and whip hoses)

## 3. BREAKAWAY COUPLINGS

- a. Every breakaway coupling is tested for continuity and pressure tests in accordance with UL Standard 567.
- b. Every breakaway coupling is manufactured to the standard that passed all tests conducted during the ARB certification for the following:

TP-201.2J - Breakaway Pressure Drop

### 4. TANK PRESSURE MANAGEMENT SYSTEM

- a. The Clean Air Separator tank is designed, constructed, tested, inspected and stamped per the American Society of Mechanical Engineers (ASME) Code Section VIII, Division 1, 2001 Edition, 2003 Addendum.
- b. Every Clean Air Separator bladder is performance and pressure tested using the **Clean Air Separator Performance Test** to ensure its integrity.