Executive Order VR-201-AE

Assist Phase II EVR System
Not Including ISD

Exhibit 3

MANUFACTURING PERFORMANCE STANDARDS AND SPECIFICATIONS

The Assist Phase II EVR System and all components shall be manufactured in compliance with the performance standards and specifications in CP-201 (amended April 23, 2015), 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 **CARB 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.

a. The nozzle vapor valve leak rate shall not exceed 0.038 cubic feet per hour (CFH) at a pressure of +2 inches H_2O when tested in accordance with the latest version of TP-201.2B.

b. The nozzle vapor valve leak rate shall not exceed 0.10 CFH at a vacuum of -100 inches H_2O when tested in accordance with the latest version of TP-201.2B.

c. The nozzle automatic shut off feature is tested at all service clip settings (either two or three) as well as handheld in accordance with Underwriters Laboratories (UL) Standard 842.

d. The nozzle is tested in accordance with the California Department of Food and Agriculture Division of Measurement Standards Article 2 (DMS 6-6-97).

e. The nozzle is manufactured to specifications that passed the following tests during the CARB certification evaluation:

TP-201.2C - Spillage from Phase II Systems

TP-201.2D - Post Fueling Drips From Nozzle

TP-201.2E - Gasoline Liquid Retention in Nozzles and Hoses

f. The nozzle is manufactured to meet the Vapor to Liquid Ratio as specified in Exhibit 2.

g. The terminal end of each nozzle shall be manufactured in accordance with the specifications referenced in Section 4.7.3 of CP-201.

2. INVERTED COAXIAL HOSES

Every inverted coaxial hose is tested for continuity and pressure tests in accordance with UL Standard 330.

3. HOSE ADAPTORS

Every hose adaptor is tested for continuity and pressure tests in accordance with UL Standard 567.

4. RECONNECTABLE BREAKAWAY COUPLINGS

Every re-connectable breakaway coupling is tested for continuity and pressure tests in accordance with UL Standard 567.

5. FLOW LIMITER

Every flow limiter is tested to 50 pounds per square inch (psi) liquid pressure to verify maximum gasoline flow rate limited to 10.0 gpm.

6. VP1000 VACUUM PUMPS

a. Every vacuum pump is pressure tested in accordance with UL Standard 79.

b. Every vacuum pump is manufactured to the exact specifications that passed all tests conducted during the CARB certification.

c. Every MC100 control module is tested in the factory to verify proper operation.

7. PASSIVE 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.

8. ACTIVE TANK PRESSURE MANAGEMENT SYSTEM

a. Every Permeator AT-150 processor is performance and pressure tested using the following three tests to ensure proper operation:

Vacuum Pump Motor Rotation	-	Verifies Clockwise Motor Rotation
Low Oil Level	-	Verifies that insufficient oil level will trigger audible and visual alarm on control panel.
Pressure Integrity	-	Verifies that all internal components have been installed correctly.