

Modification Highlights for Executive Order VR-204-N

Part I: Executive Order

All Exhibits

- Changed title from “VST Phase II EVR System Including Veeder-Root ISD System” to “Balance Phase II EVR Systems Including ISD Systems”
- Changed all footers and headers to reference VR-204-N

Legal Language:

- Page 1, added “whereas” paragraph describing the nature of the amendment request from VST including CAS to include the FFS INCON ISD system. Also, paragraph limits the use of VST and INCON with unihose dispensers only;
- Page 1, added “whereas” paragraph describing the nature of the amendment request from Veeder-Root to add Maintenance Tracker;
- Page 1, added “whereas” paragraph describing the nature of the amendment request from Veeder-Root to add wireless vapor pressure sensor as an alternate component;
- Page 1, added “whereas” paragraph describing the nature of the amendment request from VST to include the Green Machine Vapor Processor as an alternate processor;
- Page 1, added “whereas” paragraph describing the nature of the amendment request from OPW to include a re-connectable balance breakaway as an alternate component ;
- Page 1; added “whereas” paragraph describing the nature of the amendment request from EMCO Wheaton Retail to include hanging hardware (nozzle, A4005EVR, and safe break valve, A41119EVR) for use with Franklin Fueling Clean Air Separator and Veeder-Root ISD System;
- Page 2, added reference to new Exhibit 15: the VST Green Machine Annual Compliance Test Procedure
- Page 2, added reference to new Exhibit 18: Accessing PMC and ISD Parameters at Gasoline Dispensing Facilities (GDFs) with Veeder-Root’s “Maintenance Tracker” Security Feature Installed & Enabled,
- Page 2, added reference to new Exhibit 19: INCON ISD System Vapor Flow Meter Operability Test Procedure, and new Exhibit 20: INCON ISD System Vapor Pressure Sensor Verification Test procedure;
- Page 4, changed reference in two places from VR-204-M to VR-204-N;
- Page 4, change reference from March 20, 2012 to Month, xx, 2012;
- Page 5, added reference to new Exhibits 15, 18, 19, and 20 (see above)
- Last page prior to signature block, changed EO expiration date from April 1, 2013 to April 1, 2014 to allow more time for the renewal process.

Exhibit 1:

- Page 1, added OPW Coupling, model 66CLP to the Breakaway category on the Hanging Hardware Equipment List #1;
- Page 1, added INCON ISD System to Allowable Hanging Hardware and Processor Table;
- Page 1, added VST Green Machine to Allowable Hanging Hardware and Processor Table under the processor category to be allowed with Veeder-Root ISD;

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- Page 2, added Veeder-Root wireless vapor pressure sensor and desiccant tube components to VST Membrane Processor Equipment List #1;
- Page 2, added footnote under VST Membrane Processor Equipment List that states that wireless components are optional;
- Page 3, added Veeder-Root wireless vapor pressure sensor and desiccant tube components to Veeder-Root Vapor Polisher Processor Equipment List #2;
- Page 3, added footnote under Veeder-Root Vapor Processor Equipment List that states that wireless components are optional;
- Page 5, added new table # 5 for VST Green Machine Processor Equipment List
- Page 7, added Veeder-Root wireless vapor pressure sensor and desiccant tube components to Veeder-Root ISD Equipment List;
- Page 10, added footnote under Veeder-Root ISD Equipment List that states that wireless components are optional;
- Page 8, changed heading in last column of table to read: Wireless PMC and ISD Components;
- Page 11, added new table: INCON ISD System Equipment List #2;
- Page 10, added the Veeder-Root Maintenance Tracker Table;
- Several locations, added new figure for the TLS 350 console
- Several locations, added alternate names of the TLS 350 console such as Gilbarco Promax and Red Jacket
- Added EMCO Wheaton Retail nozzle to hardware matrix, approving use with CAS and Veeder-Root ISD
- Added EMCO Wheaton Retail breakaway to hardware matrix, approving use with all processors
- Under **Figure 1A-5**, Changed header to read: **Veeder-Root Vapor Pressure Sensors** and replaced current line drawing with updated one;
- Page 21, updated **Figure 1A-8**;
- Page 22, **Figure 1A-9**, changed header to read: **Wireless Components for Veeder-Root PMC and ISD System**;
- Page 23, **Figure 1A-9** (continued), Changed header to read: **Wireless Components for Veeder-Root PMC and ISD System**, updated figure;
- Page 24, added OPW Hanging Hardware Breakaway to the current Figure 1A-2;
- Page 35, added new **Figures 1A-16** and **1A-17** Veeder-Root Maintenance Tracker Technician Key and Interface Module;
- Page 36, added new **Figures 1A-18, 1A-19, 1A-20, 1A-21** INCON Console, Flow Meter, Pressure Sensor, and DTU;
- Page 48, added new **Figure 1A-22**, VST Green Machine Processor

Exhibit 2:

- Page 7, added bullet 2 to Breakaway Coupling section for the OPW Breakaway re-connectable;
- Page 3, added a new section for the VST green Machine Processor;
- Page 8, added information on the INCON ISD suggested troubleshooting information.
- Page 8, bullet one, reworded the paragraph for clarity;"
- Page 8, bullet two, added reference to "IOM Section 4";
- Page 11, added a new section for "System with VST Green Machine Processor";

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- Page 13, under: **TLS Console & ISD Software Version number**. The last paragraph will read as follows: If Veeder-Root Maintenance Tracker is installed and enabled, see Exhibit 18 for instructions to disable.
- Page 14, added two sentences to bottom of the first paragraph that reads: **Figure 2B-19** shows the wireless vapor pressure sensor dispenser installation configuration. **Figure 2B-20** shows the wireless vapor pressure sensor vapor vent stack installation configuration.
- Page 14, added sentence under RF Wireless Components heading that reads: The Veeder-Root wireless components must be installed in accordance with **Section 19: TLS RF Wireless 2 System (W2) Installation and Maintenance Guide of the ARB Approved IOM**.
- Page 15, added the Veeder-Root Maintenance Tracker Kit Information, and revised the training program information and inserted the Veeder-Root Contractor Training Certification Requirement Table.
- Page 22, **Figure 2B-8**, added new images clearly identifying part numbers for VPS and desiccant tube
- Page 35, added new **Figure 2B-21, Wireless Vapor Pressure Sensor – Vapor Vent Stack Installation Configuration**
- Page 17-20, added the INCON Vapor Recovery Monitoring (VRM) System Specifications including **Figures 2B-22 to Figure 2B-27** (changed the figures numbering accordingly).
- Page 44, added new **Figures 2B-29 and 2B-30** the Veeder-Root Maintenance Tracker Technician Key and Interface Module;
- Page 52, added a new **Figure 2B-31** for the Typical VST Green Machine Installation

Exhibit 3:

- Revised warranty language for all equipment manufacturers listed; include the full one year warranty from date of installation.

Exhibit 4:

- Page 1, under **Veeder-Root Vapor Polisher Installed**, Item 1, modified and added instruction on how to proceed if maintenance tracker is installed.
- Page 4, added item # 4. If using Veeder-Roots “PC Setup Tool” use version 1.09 or higher.

Exhibit 7:

- Added a statement recommending that test be conducted when UST pressure is greater than one inch of water column pressure or less than one inch of water column vacuum.

Exhibit 8:

- Page 2, Section 6, 6.1.1 inserted instruction on how to proceed if maintenance tracker is installed.
- Page 3, deleted the first paragraph and inserted instruction on how to proceed if maintenance tracker is installed in #7.

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Exhibit 9

- Page 1, Changed title to read: **VST Processor Determination of Activation Pressure**
- Page 1, #2, revised language
- Page 1, 3.4 added paragraph identifying time laps for getting pressure reading from the TLS based on wired or wireless vapor pressure installation.
- Page 2, 6.2, revised language
- Page 3, 7.2, added paragraph identifying time laps for getting pressure reading from the TLS

Exhibit 10:

- Page 2, item # **3. Biases and Interferences**, added item 3.6, instruction on how to proceed if maintenance tracker is installed.

Exhibit 11:

- Page 2, item # **3. Biases and Interferences**, added item 3.3, instruction on how to proceed if maintenance tracker is installed.

Exhibit 12:

- Page 1, item # **3. Biases and Interferences**, added item 3.5, instruction on how to proceed if maintenance tracker is installed

Exhibit 15:

- Added a new Exhibit 15, **VST Green Machine Annual Compliance Test Procedure**

Exhibit 16:

- Page 8, APPENDIX A, under **Veeder-Root TLS-350 Console**, added second paragraph instruction on how to proceed if maintenance tracker is installed.
- Page 8, APPENDIX A, under **Veeder-Root TLS-350 Console**, replaced current second paragraph added instruction on how to proceed if maintenance tracker is installed.

Exhibit 17:

- Page 3, section 2.14, change 1.03 to 1.09
- Page 8, 3. Pre-Test Procedures, 3.1, added instruction on how to proceed if maintenance tracker is installed.
- Page 8, 3.2, change v1.03 to v1.09
- Page 11, Site Shutdown Test, 1.1 should read:

“This test must be performed by a certified Veeder-Root contractor due to possible backup battery or H8 processor issues. Before testing see Veeder-Root “Technical Support Service Alert”, dated August 11, 2011 or contact Technical Support at 1-800-323-1799 or technicalsupport@veeder.com”

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Exhibit 18:

- Added a new Exhibit 18, **Accessing PMC and ISD Parameters at Gasoline Dispensing Facilities (GDFs) with Veeder-Root's "Maintenance Tracker" Security Feature Installed & Enabled**

Exhibit 19:

- Added a new Exhibit 19, **INCON ISD System Vapor Flow Meter Operability Test Procedure**

Exhibit 20:

- Added a new Exhibit 20, **INCON ISD System Vapor Pressure Sensor Verification Test Procedure**

Part II: Changes to ARB Approved Installation, Operation, and Maintenance Manuals (IOM)

All Sections:

- Where applicable, changed title from “VST Phase II EVR Systems Including Veeder-Root ISD” to “Balance Phase II EVR Systems Including ISD Systems”
- Changed all footers and headers to reference VR-204-N

IOM Cover

- Added INCON ISD Certified Technician requirement to the cover.

Table of Contents

- Added new Sections 18 for VST Green Machine, Sections 21 through 26 for the INCON with VST and CAS certification, and 27 for Veeder-Root Wireless Vapor Pressure Sensor. The sections are:

Section 18:	VST Green Machine Installation and Maintenance Manual
Section 21:	INCON Vapor Recovery Monitoring (VRM) Installation, Operation, & Maintenance Manual
Section 22:	INCON Vapor Flow Meter (VFM) Installation Guide
Section 23:	INCON Vapor Pressure Sensor (VPS) Installation Guide
Section 24:	INCON Console DTU (Data Transfer Unit) Installation Instructions
Section 25:	INCON Data Transfer Unit (DTU) Dispenser Retrofit Manual
Section 26:	FFS Thermal Printer Model TSSP-TMPTR Retrofit/Installation Instructions
Section 27:	Veeder-Root Wireless Vapor Pressure Sensor Installation Guide

Section 1

- Revised and re-arranged VST Contractor Requirement Table including changes for the Veeder-Root certification levels;
- Added the contractor training requirements specific to INCON ISD and contact information to determine what level and who has been trained.

Section 3

- Page 3-4, added new Section 4 and Figure 24 that show how to view battery on wireless components, and a new Table 5 for the annual inspection requirements for VST Green Machine Processor.

Section 4

- Changed Title name from Veeder-Root ISD Alarm Troubleshooting Summary to **ISD Alarm Troubleshooting Summary**. Added Veeder-Root to the name of each table, 1-5.
- Added Table 6: INCON ISD Alarm Troubleshooting Summary for Facilities Equipped with VST Phase II EVR System and FFS Healy Clean Air Separator;
- Added Table 7: Veeder-Root ISD Alarm Troubleshooting Summary for Facilities Equipped with VST Green Machine Processor

Section 5

- Added reference to the OPW RE-connectable breakaway

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Section 9

- Added instruction for the OPW re-connectable breakaway.

Section 13

- Throughout document, changed title to “Veeder-Root Vapor Pressure Sensor Installation Guide”

Section 19

- Throughout document, updated document to include wireless vapor pressure sensor

New IOM Sections:

- Added a new section for the VST Green Machine
 - Section 18: VST Green Machine Installation and Maintenance Manual
- Added new sections 21-26 for the INCON with VST and CAS certification
 - Section 21: INCON Vapor Recovery Monitoring (VRM) Installation, Operation, & Maintenance Manual
 - Section 22: INCON Vapor Flow Meter (VFM) Installation Guide
 - Section 23: INCON Vapor Pressure Sensor (VPS) Installation Guide
 - Section 24: INCON Console DTU (Data Transfer Unit) Installation Instructions
 - Section 25: INCON Data Transfer Unit (DTU) Dispenser Retrofit Manual
 - Section 26: FFS Thermal Printer Model TSSP-TMPTR Retrofit/Installation
- Added a new section for Veeder-Root Wireless Vapor Pressure Sensor
 - Section 27: Veeder-Root Wireless Vapor Pressure Sensor Installation Guide