



Vapor Systems Technologies, Inc.

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the Fuel Dispensing
Industry Professional

The Voice

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650 Pleasant Valley Drive * Springboro, OH 45066 * www.vsthose.com * (937) 704-9333



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Hello!

Well, 2016 is upon us! And with it comes Volume 7 of The VST Voice.

This edition explains VST's commitment to EVR and the creation of a complete EVR system.

This edition also provides an index of past editions of the VST Voice so you can easily find past articles for current reference.

And finally, we'll take a peek at what the future has in store for VST products.

Until next time,

Susie

Susie McLaughlin
Editor, The VST Voice

VST: A Leader in EVR

The California regulatory community has led the charge for improved air quality solutions, inclusive of Gasoline Dispensing Facility (GDF) vapor recovery equipment, for more than three decades. It has been a progressive path of regulations and equipment all aimed at improving air quality for the benefit of the environment and for the general public's health. In the mid to late 1980's, California was the birthplace of Phase I and Phase II regulations for GDFs. VST has been an active and supportive supplier of vapor recovery equipment in California for 25 years, as well as in other states throughout the USA and countries around the world.

Throughout this timeline, improvements and efficiency have constantly been sought by the regulators and equipment suppliers. After a number of years and examination of the in-use efficiency of the initial Phase I and Phase II systems, the California Air Resources Board (CARB) determined that the vapor recovery equipment was not working as efficiently as originally certified. A State Implementation Plan (SIP) agreement for emission reductions was created and the result was Enhanced Vapor Recovery (EVR). EVR was a comprehensive strategy/regulation aimed at reducing fugitive emissions even further by improving numerous facets of GDF equipment and inspection processes. It involved 6 Modules for equipment upgrades, which when fully implemented, were certified as a comprehensive GDF system, as opposed to individually certified components.

The new efficiency requirements for EVR drove innovation for new technologies. VST accepted the challenge and ultimately certified the first comprehensive EVR Balance System with **ALL** VST equipment: Forecourt equipment – hoses, safety breakaways, and nozzles, as well as an Underground Storage Tank (UST) pressure management processor – **a complete EVR system.**

Since the evolution of EVR, VST has continuously focused our engineering efforts on equipment that exceeds the stringent requirements and performance criteria for EVR Systems. To this point, and to date, VST has engineered, developed, and successfully certified more EVR Phase II equipment than any other manufacturer participating in the EVR arena. For EVR Balance Systems, VST has successfully completed three (3) separate efficiency certifications using CARB's vehicle matrix criteria: 1) Our original certification; 2) A CARB required recertification; and 3) A certification with our most current G2 EVR Balance Nozzle. In all cases, VST utilized our complete EVR Balance forecourt equipment (hoses, safety breakaways, and nozzles) and the efficiency results were 98.5% or greater.

VST: A Leader in EVR

To successfully pass the stringent EVR requirements, understanding the entire system and necessary performance requirements is critical. VST engineering and design of equipment has consistently addressed these challenges by developing equipment that individually exceeds component requirements, but more importantly exceeds the system requirements; i.e. back pressure budgets, liquid removal effectiveness, and dripless/spitless criteria – VST EVR Balance nozzle performance exceeds the specification by +99%.

To summarize:

- VST has addressed EVR as a system from the beginning.
- Our products have been extensively tested via the CARB requirements and protocols on numerous occasions.
- The EVR marketplace has responded by adding more VST equipment year over year.
- Our goal is to continue supporting the marketplace with robust products that offer station owners the Best Cost of Ownership.

The feedback that we are getting from VST customers is that they are experiencing lower expenditures due to less maintenance and fewer system alarms. In other words, a Better Cost of Ownership. However, we would encourage you to talk between yourselves, ask users who use our products, and decide for yourself.

The VST Voice Index: Earlier Editions

Many in the industry have told us how much they use the information we supply in The VST Voice. To make finding information from past editions easier, please refer to the following:

Tech Talk		
<u>Volume</u>	<u>Date</u>	<u>Topic</u>
1	June 2014	Locate Dispenser leaks on Balance ISD Systems
2	Sept 2014	Troubleshooting winter fuel alarms
3	Dec 2014	A Balance Misconception - Balance Systems are not inherently leaky - How to test
4	Mar 2015	Troubleshooting Veeder-Root flow collection warnings for Balance EVR Systems
5	June 2015	VST ZERO Conversions - Tutorial - How to convert Assist systems to VST ZERO Balance
6	Sept 2015	VST ZERO Conversions - Installation and Troubleshooting Tips

Training		
<u>Volume</u>	<u>Date</u>	<u>Topic</u>
All	All	New California Executive Orders VR-203P and VR-204P require retaking Level A training. How to do so free, online. Level A is for hanging hardware
All	All	Level B/C training - Schedules, how to apply
		Level B - ECS Membrane Processor installation
		Level C - ECS Membrane Processor Installation, start-up, testing, trouble-shooting, maintenance and repair
4	Mar 2015	VST Level B or Level C certification extension - easy process to make it happen
5	June 2015	VST Training videos - at www.vsthose.com and YouTube - links

The VST Voice Index: Earlier Editions

New Products		
<u>Volume</u>	<u>Date</u>	<u>Topic</u>
1	June 2014	VST ZERO Upgrade Plus - Low cost solution to upgrade existing dispensers and reduce ISD alarms and maintenance costs
2	Sept 2014	EVR Vapor Assist Breakaways ENVIRO-LOC™ Low Permeation Dispensing Curb Pump Hose
3	Dec 2014	Factory Service Repair - VSTA-EVR-SBKA Reattachable EVR Balance Safety Breakaway
4	Mar 2015	VST Highly Engineered Premium Diesel Fuel Delivery System - Auto, Light Truck, Marine
5	June 2015	VST "Lip Seal" hose fitting swivel technology - Great value for ease of use, endurance, and leak and maintenance prevention
6	Sept 2015	VST Sentry Reattachable Safety Breakaways - Secure, consistent operation when you need it - field reattachable

Special Edition		
<u>Chapter</u>	<u>Date</u>	<u>Topic</u>
1	Jan 2015	Back to Basics - Balance vs. Assist systems - how they work
2	Mar 2015	Performance differences Balance vs. Assist
3	Apr 2015	Reverse Flow - What it is and what it isn't

You can find previous issues of The VST Voice at this link:

www.vsthose.com/education.aspx

Also, VST Product Bulletins are a good resource. Click here to link to all of our Product Bulletins: www.vsthose.com/prodbul.aspx

VST: A Look to the Future

VST has a number of new products currently undergoing CARB certification testing. These new products are designed with our same engineering focus – to enhance existing GDF systems by reducing the cost of regulatory and maintenance issues.

We will be announcing these products throughout 2016.