

# Product Bulletin



Vapor Systems Technologies, Inc.  
650 Pleasant Valley Drive  
Springboro, Ohio 45066 (USA)  
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## UPDATE:

Executive Orders VR-203 and VR-204  
Revision K

06.30.11

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VST EVR balance hanging hardware is now the most comprehensive option<sup>1</sup> for more Gasoline Dispensing Facilities (GDFs) in the California EVR market than any other choice<sup>2</sup>. It is nice to keep things simple – All you need is VST!

The release of Executive Orders VR-203 and VR-204 – Revision K allows VST hanging hardware to now be used with the Franklin Fueling Systems Clean Air Separator (CAS) and Veeder-Root ISD:

### VR-203 (Non-ISD) – approved processors:

- ▶ VST Membrane Processor
- ▶ Veeder-Root Vapor Polisher
- ▶ Franklin Fueling Systems Clean Air Separator
- ▶ HIRT Thermal Oxidizer

### VR-204 (ISD)<sup>3</sup> – approved processors:

- ▶ VST Membrane Processor
- ▶ Veeder-Root Vapor Polisher
- ▶ Franklin Fueling Systems Clean Air Separator



Additionally, GDF sites with new EVR upgrade deadlines may now make the EVR upgrade to the above balance systems with VST hanging hardware:

- ▶ GDFs with Liquid Condensate Traps (LCT)
- ▶ GDFs in markets that switched from attainment to non-attainment areas

Revision K also introduces:

- ▶ VST's Factory Rebuilt EVR Safety Breakaways (See attached)
  - ◆ VST's EVR Safety Breakaway Core Return Program has allowed us to generate a new recycling opportunity that benefits the EVR marketplace with a factory made, tested, and approved product.
  - ◆ Recycle and earn core value by turning in your VST safety breakaways that were involved in drive-off events. Contact your VST EVR Distributor of choice for details and availability.
- ▶ VST's new EVR Balance Hose ferrule sleeves. (See attached)  
These cosmetically enhanced ferrule sleeves:
  - ◆ Offer a sleek, new look that improves the readability of the hose labeling.
  - ◆ Provide additional strain relief at the hose flex points.
  - ◆ Will be introduced to the marketplace via a rolling introduction from the factory.

With so many opportunities to use VST EVR nozzles, hoses, and safety breakaways – why not keep it simple and let VST help you upgrade? Contact your VST EVR Distributor of choice for details.

<sup>1</sup> VST is approved for all listed options in this Bulletin.

<sup>2</sup> VST has the only EVR balance nozzle and safety breakaway approved for all processor options. Carefully read Exhibit 1 in the Executive Orders when not using VST EVR hanging hardware.

<sup>3</sup> Veeder-Root ISD only



Tired of all  
those expensive  
alarms from your  
EVR Vacuum Assist  
System?

Stressed by all  
those expensive  
maintenance calls?

Are You Financially  
*Upside Down* with Your Old Assist System?

## VST ZERO is the Solution.

	FFS Assist (Healy)		VST Balance (VST Zero)	
	Non-ISD	ISD	Non-ISD	ISD
Annual Testing	\$	\$	\$	\$
Communication	n/a	\$	Zero	\$
Moving parts	\$	\$	Zero	Zero
Electrical Installation & Consumption	\$	\$	Zero	Zero
V/L Nozzle Test	\$	\$	Zero	Zero
Nozzle Adjustments by ASC	\$	\$	Zero	Zero
Warranty nozzle replacement (requires ASC test)	\$	\$	Zero	Zero
Weekly Physical Testing (may require an ASC)	\$	\$	Zero	Zero
Quarterly Physical Testing (may require an ASC)	\$	\$	Zero	Zero
Vapor Pumps (post-warranty replacement cost)	\$	\$	Zero	Zero



Vapor Systems Technologies, Inc.

# The VST ZERO EVR System.

## Simply the lowest cost, easiest to install and operate clean air solution in the industry.



VST Hanging Hardware



FFS Clean Air Separator



Veeder-Root  
In-Station  
Diagnostics

Unhappy with your current EVR Vacuum Assist System? Problems with station shut downs, complex nozzles, and replacement of costly vapor pumps? VST ZERO is the simple solution for you.

VST ZERO is the combination of currently certified VST hanging hardware, existing Franklin Fueling Clean Air System and a Veeder-Root TLS-350 with EVR software. This hybrid has met all CARB testing requirements. The key savings of this system are the elimination of the vapor pump in the dispenser and replacement of the vacuum-assist hanging hardware. The result: lower equipment and maintenance costs with reduced compliance testing.

#### **VST ZERO EVR system advantages:**

1. Lowest cost EVR approach
2. ZERO moving parts
3. ZERO\* carbon footprint
4. ZERO vapor pumps
5. ZERO electrical consumption  
(eliminates electrical demand for vapor pumps)
6. Substantially reduces compliance testing as well as annual testing
7. ZERO modification needed to balance dispensers

#### **Executive Orders**

VR-203 (NON-ISD)

VR-204 (ISD)

\*Relative to operation of the system  
VST-120-06/11



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# Air Resources Board



**Linda S. Adams**  
Acting Secretary for  
Environmental Protection

**Mary D. Nichols, Chairman**  
1001 I Street • P.O. Box 2815  
Sacramento, California 95812 • [www.arb.ca.gov](http://www.arb.ca.gov)

**Edmund G. Brown Jr.**  
Governor

April 6, 2011

Mr. Glenn K. Walker, President  
Vapor Systems Technologies, Inc.  
650 Pleasant Valley Drive  
Springboro, Ohio 45066

Dear Mr. Walker:

- In a letter dated November 30, 2010, you requested Air Resources Board (ARB) approval of a factory rebuilt Vapor Systems Technologies (VST) breakaway, model VSTA-EVR-SBK, to be used with the VST Phase II Enhanced Vapor Recovery (EVR) System Executive Orders VR-203 and VR-204. As stated in your letter, the factory rebuilt breakaway will meet all factory specifications and utilize the same original equipment component parts that are found in the currently certified VST-EVR-SBK product. You also stated there will be no change in component performance or functionality of the rebuilt breakaway. VST EVR breakaway model number will not change; however, the rebuilt breakaway will be identified as shown in the figure below.



*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.*

California Environmental Protection Agency

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Mr. Glenn K. Walker  
April 6, 2011  
Page 2

ARB received approval for the VST EVR rebuilt breakaway from the following State Agencies:

- Department of Forestry and Fire Protection  
Office of the State Fire Marshal
- Department of Industrial Relations  
Division of Occupational Safety and Health

Note that approval from the Department of Food and Agriculture, and a determination from the State Water Resources Control Board are not required for this VST request.

ARB has determined that the addition of the VST EVR factory rebuilt breakaway will not affect the performance of the VST Phase II EVR System. The rebuilt breakaway will be included as an alternate component in the next revision of Executive Orders VR-203 and VR-204.

Should you have any questions or concerns regarding this letter, please contact Ken Lewis at (916) 322-8098 or via email at [klewis@arb.ca.gov](mailto:klewis@arb.ca.gov), or Pat Bennett at (916) 322-8959 or via by email at [pbennett@arb.ca.gov](mailto:pbennett@arb.ca.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'Alberto Ayala', followed by a long horizontal flourish.

Alberto Ayala, Ph.D., M.S.E.  
Chief, Monitoring and Laboratory Division

cc: See next page.

Mr. Glenn K. Walker  
April 6, 2011  
Page 3

cc: Danny Luong  
South Coast Air Quality Management District

Jason Ellertson  
Feather River Air Quality Management District

Irene Beltran  
Mojave Desert Air Quality Management District

Randy Smith  
San Diego County Air Pollution Control District

James Parsegian  
Department of Forestry and Fire Protection

Matt Stevens  
Department of Food and Agriculture

Amit Gupta  
Department of Industrial Relations

Laura Fisher  
State Water Resources Control Board



# Air Resources Board



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**Edmund G. Brown Jr.**  
Governor

April 6, 2011

Mr. Glenn K. Walker, President  
Vapor Systems Technologies, Inc.  
650 Pleasant Valley Drive  
Springboro, Ohio 45066

Dear Mr. Walker:

In a letter dated December 13, 2010, you requested Air Resources Board (ARB) approval of an alternate ferrule sleeve for your certified balance-style hoses used in the Vapor Systems Technologies (VST) Phase II Enhance Vapor Recovery (EVR) System Executive Orders VR-203, VR-204, VR-205, and VR-209. As stated in your letter, the changes made to the ferrule sleeve will not affect the vapor recovery function of the hoses and are cosmetic in nature. The alternate ferrule sleeve will also improve the readability of the hose labeling. Both the currently certified and alternate versions of the ferrule sleeve will be seen in the marketplace concurrently. The model number of the VST EVR hoses with the new ferrule sleeve will not change. The figure below shows the alternate ferrule sleeve design.

## Alternate Ferrule Sleeve Design



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California Environmental Protection Agency

Mr. Glenn K. Walker  
April 6, 2011  
Page 2

ARB has received approval for the alternate ferrule sleeve from the following State Agencies:

- Department of Forestry and Fire Protection  
Office of the State Fire Marshal
- Department of Industrial Relations  
Division of Occupational Safety and Health

Note that approval from the Department of Food and Agriculture, and a determination from the State Water Resources Control Board are not required for this VST request.

ARB staff has determined that the addition of the alternate ferrule sleeve will not affect the performance of the vapor recovery system. The alternate ferrule sleeve will be included in the next revision of Executive Orders VR-203 and VR-204. Note that Executive Orders VR--205 and VR-209 will not be revised because these Executive Orders were previously superseded by revision H of Executive Orders VR-203 and VR-204.

Should you have any questions or concerns regarding this letter, please contact Ken Lewis at (916) 322-8098 or via email at [klewis@arb.ca.gov](mailto:klewis@arb.ca.gov), or Pat Bennett at (916) 322-8959 or via by email at [pbennett@arb.ca.gov](mailto:pbennett@arb.ca.gov).

Sincerely,



Alberto Ayala, Ph.D., M.S.E.  
Chief, Monitoring and Laboratory Division

cc: See next page.



Mr. Glenn K. Walker  
April 6, 2011  
Page 3

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