



Vapor Systems Technologies, Inc.

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News and Notes for  
the Fuel Dispensing  
Industry Professional

# The ! Voice

Volume 5

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Hello!



**Inside this issue:**

Tech Talk

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The VST ZERO system is proving to be a very good decision for many GDF owners throughout the state of California. In this edition, Doug Harty offers a wonderful tutorial for those contemplating making the switch.

Then in the Training section, our gentle reminder to make sure all field technicians are current on their Level A Training... and a guide to receiving VST Level B/C Certification extensions.

...From Scott Bennett a highlight of VST's "Lip Seal" technology and its advantages for your customers.

**COMING SOON:**

From Rodger Grantham, another chapter of The VST Special Edition.

Until next time,

*Susie*

Susie McLaughlin  
Editor, The VST Voice

## Tech Talk

BY DOUG HARTY: SENIOR APPLICATIONS ENGINEER: HARTY@VSTHOSE.COM

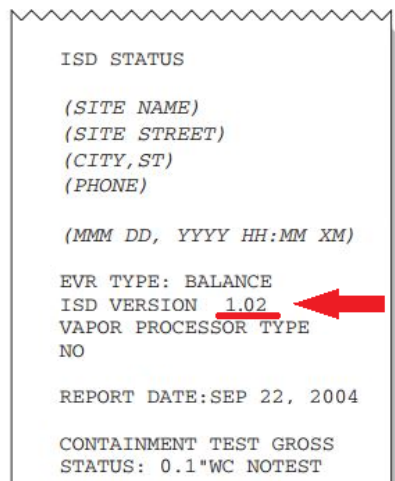
### VST ZERO Conversions ... Tutorial ...

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As the California market has been converting to the VST ZERO system (EVR Vac Assist to Balance conversion), station owners and service contractors have had some questions about the process.

#### Software Requirements

- The VST ZERO system is compatible with Veeder-Root ISD 1.02 and newer software. The software version is printed on the ISD Daily report.



```
ISD STATUS  
  
(SITE NAME)  
(SITE STREET)  
(CITY, ST)  
(PHONE)  
  
(MMM DD, YYYY HH:MM XM)  
  
EVR TYPE: BALANCE  
ISD VERSION 1.02  
VAPOR PROCESSOR TYPE  
NO  
  
REPORT DATE:SEP 22, 2004  
  
CONTAINMENT TEST GROSS  
STATUS: 0.1"WC NOTEST
```

- The minimum Veeder-Root software version of 1.01 listed on the Executive Order (EO) will work as long as the Flow Meter Operability serial command works (IV8700). If IV8700 does NOT work, the software is NOT compatible.
- A VST ZERO Conversion is NOT considered a major modification, but you should check with local agencies for permit requirements. A software upgrade and cold start might be requested by a local agency.
- INCON® systems will require a software upgrade to 1.3.0. This upgrade is done with a laptop and does not require a cold start on the TLS-350 or a monitoring system certification.

## VST ZERO Conversions A Tutorial, continued

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### Flow Meters

- Veeder-Root ISD systems will require Balance ISD flow-meters to replace the existing Assist flow-meters. VST has a program package for discounted flowmeters to help offset the cost.
- INCON® Flow Meters are compatible with both Assist and Balance EVR systems.

### Dispenser Piping

- 1-inch vapor piping is recommended for VST ZERO conversions.  $\frac{3}{4}$ " dispenser vapor piping can be used IF backpressure requirements are met. VST recommends minimizing backpressure to reduce the possibility of ISD Flow Collect Warnings.

### Link to EVR Vac-Assist to Balance Conversion Quoting Tool Video

- To make the task of determining the costs to convert to VST ZERO, we have created an "EVR Vac-Assist to Balance Conversion Quoting Tool."
- Click here for a link to the video tutorial:
  - <http://www.vsthose.com/education.aspx>
- Contact VST if you would like a copy of the VST ZERO Quoting Tool. Contact:
  - Doug Harty: [harty@vsthose.com](mailto:harty@vsthose.com)
  - Gregg Marshel: [marshel@vsthose.com](mailto:marshel@vsthose.com)

## VST Training

BY SUSIE MCLAUGHLIN: MANAGER, TRAINING & CERTIFICATIONS: MCLAUGHLIN@VSTHOSE.COM

### Level A Training - Get it Done!

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Executive Orders VR-203/204 Rev. P were signed in April of 2014. And with them came the **new requirement** that all contractors with existing VST Level A certifications are REQUIRED to re-certify their VST Level A by taking the Level A online training.

VST offers this training online, in a self-paced format, and at no charge to afford contractors an efficient / no cost way to keep themselves compliant with Air & Resources Board requirements. We strongly urge all contractors to get this done as soon as possible to take advantage of this wonderful opportunity.

The Level A training is available online, at no cost. To access the training, go to [www.vsthose.com](http://www.vsthose.com).

### Level B/C Certification Extensions

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If you have previously held a VST Level B or Level C certification, you are eligible for an extension on both levels by sending in the appropriate paperwork. Just scan and email the paperwork below to me, Susie McLaughlin: [mclaughlin@vsthose.com](mailto:mclaughlin@vsthose.com)

To get a Level B or a Level B/C extension:

1. Provide VST with a copy of your Level A certificate generated from the online training.
2. Provide VST with current Veeder-Root certs:
  - For Level B: VR Tank Monitoring
  - For Level C: VR Vapor Products

### VST Training Videos

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And on a final note... all VST training videos are available in two places: on the VST website and on the VST YouTube channel.

Here are the links:

<http://www.vsthose.com/education.aspx>

<https://www.youtube.com/channel/UCjmccC2ydFSxOJiP-9UfkDw>

## New VST Products

BY SCOTT BENNETT: V.P. SALES & MARKETING: BENNETT@VSTHOSE.COM

### VST “Lip Seal” Technology

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Traveling across the country, I hear a common misconception that Curb Pump hose is all the same, a commodity. Really?? Now consider the hose nozzle interface acting as **your handshake** with **your customer**, commodity now? I didn’t think so.

There are two major functions of the Curb Pump hose, 1) conveying product from the dispenser to nozzle without leaking, and 2) ease of handling by the customer. The hose coupling design and its attachment to the hose is critical in addressing these two requirements.

To eliminate leaks, the first task is the attachment of the coupling to the hose. VST uses a proven method of crimping the coupling to the hose to reduce the chance of leaking between the hose and coupling interface and to give excellent end pull resistance. The elimination of leak points also includes the installation process of connecting the hose assembly to the other mating components. After interviewing many different installing contractors, we’ve learned that the lack of thickness of the Curb Pump hose hex nut causes problems during installation. VST’s solution is to provide a larger hex nut for a better wrenching area.

The next consideration is the reduction of the number of potential leak points in the process. Currently, most sites use a primary hose with a third-party swivel between the hose and the nozzle. Why a non-value third-party swivel?

Most swivels, incorporated into the hose fitting using an O-ring design, have a tendency to swell and dry out over time. The swelling can cause the coupling to seize up and fail to properly swivel. The non-swiveling coupling puts undo stress on the hose coupling interface resulting in premature failures, and it also affects the ease of use by the customer.



## New VST Products

BY SCOTT BENNETT: V.P. SALES & MARKETING: BENNETT@VSTHOSE.COM

### VST “Lip Seal” Technology, continued

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VST addressed this issue by incorporating a “Lip Seal” design into the hose coupling. The “Lip Seal” design starts with a spring wire encapsulated into a fuel compatible material. This “Lip Seal” distributes constant and even pressure on the sealing area, resulting in long-term consistent swiveling action. This coupling design has been implemented by VST for 18 years now, which means it has plenty of field-proven technology.

VST incorporates this design into the following products:

- VSTaflex Conventional Curb Pump
- VSTaflex Green Conventional Curb Pump Hose
- ENVIRO-LOC™ ¾” Low Permeation Conventional Hose
- ENVIRO-LOC™ Vapor Assist Low Permeation Hose
- Ultra Vac Vapor Recovery Hose
- ENVIRO-LOC™ Phase II Assist ORVR Hose

Lip Seal with  
encapsulated  
spring wire



VST’s “Lip Seal” proven technology eliminates the requirement for third-party swivels, thereby reducing the chance of leaks, assembly weight, and cost.

This beautifully smooth experience gives your customers the hand shake they deserve.