



California State Fire Marshal Information Bulletin

Issued: June 10, 2010

STATEWIDE FIRE DEPARTMENT ALERT

Regarding Vapor Systems Technologies Nozzles Operating in California

The Air Resources Board (ARB) in cooperation with Vapor Systems Technologies Inc. (VST), of Springboro, Ohio, has issued Special Advisory 418 (Advisory) concerning VST nozzles operating in California. In some instances, a damaged VST nozzle can unexpectedly cause gasoline spray upon activating the dispenser, prior to the nozzle being inserted into the vehicle fuel tank.

The Advisory involves the **VST Model VST-EVR-NB** (State Fire Marshal Certification number GVRC 005:044:010). ARB advises station owners and operators to conduct daily inspections of VST Enhanced Vapor Recovery nozzles to ensure proper operation. The Advisory is attached and on the vapor recovery webpage at: <http://www.arb.ca.gov/vapor/advisories/adv418.pdf>.

We request the fire authority having jurisdiction assist ARB to identify and remove from service any nozzles that are found to be defective and thus pose a fire hazard. Fire authorities finding defective nozzles are requested to contact Mr. Ranjit Bhullar of ARB at (916) 322-0223. The local fire agencies' authority to remove defective nozzles from service is found in Health and Safety Code Section 41960.1(c), which states:

"When a deputy State Fire Marshal or any authorized employee of a fire district or local or regional firefighting agency determines that a component of a system for the control of gasoline vapors resulting from motor vehicle fueling operations does not meet the applicable standards established by the State Fire Marshal, he or she shall mark the component "out of order." No person shall use or permit the use of the component until the component has been repaired, replaced, or adjusted, as necessary, and either the component has been inspected by a representative of the agency employing the person originally marking the component, or the person using or permitting use of the component has been expressly authorized by the agency to use the component pending reinspection."

Please be advised that the Office of the State Fire Marshal is working with ARB to address this issue and will notify the fire service of further developments. If you have any questions regarding this SFM Information Bulletin, please contact the Vapor Recovery Program Coordinator James Parsegian at james.parsegian@fire.ca.gov or (916) 445-8415.

For information regarding the California State Fire Marshal's Office, please visit our Web site at <http://osfm.fire.ca.gov>



Number 418

May 28, 2010

VST Nozzles

This advisory concerns all VST nozzles operating in California. In rare instances, a damaged VST nozzle can unexpectedly cause gasoline spray, upon activating the dispenser, prior to the nozzle being inserted into the vehicle fuel tank. The Air Resources Board (ARB) advises that all VST nozzles be **checked daily** by following the instructions included in **Form 1** of this Advisory. See Figure 1 for a diagram of the nozzle. Any nozzle which fails Check A or Check B, of **Form 1**, should be **removed immediately from service**.

As a reminder, for any hanging hardware components involved in a drive-off or subjected to customer abuse it is required that each individual component of the hanging hardware be **visually inspected and functionally tested** before the components can again be used for dispensing fuel. Prior to placing the component/s into service, use the appropriate equipment and follow the instructions specified in the Installation, Operation, and Maintenance Manual (IOM) Sections 10, 11 and 12 (as it relates to the latest revision of Executive Orders (EO) VR-203, VR-204 and VR-205) or IOM Sections 8, 9 and 10 (as it relates to the latest revision of EO VR-209).

Questions and Further Information:

For questions regarding this advisory call at (916) 327-0900. For copies of the Executive Orders visit our website at:

1. <http://www.arb.ca.gov/vapor/eos/eo-vr203/eo-vr203.htm>
2. <http://www.arb.ca.gov/vapor/eos/eo-vr204/eo-vr204.htm>
3. <http://www.arb.ca.gov/vapor/eos/eo-vr205/eo-vr205.htm>
4. <http://www.arb.ca.gov/vapor/eos/eo-vr209/eo-vr209.htm>

FORM 1
Daily Inspection and Function Checklist – for VST Nozzles

Fueling Point #	Check A		Check B	
	Pass	Fail	Pass	Fail

Fueling Point #	Check A		Check B	
	Pass	Fail	Pass	Fail

Inspected by: _____ Date: _____ Inspected by: _____ Date: _____

- Check A**
- 1) Make sure dispenser is de-activated (**do not turn on**).
 - 2) Lift the nozzle from the dispenser cradle without touching the lever.
 - 3) Make sure hold open clip is disengaged.
 - 4) Point nozzle spout into a gasoline compatible container. Do not compress vapor collection sleeve (VCS).
 - 5) Pull lever to make sure there is no spring tension.
If the lever has **no** spring tension (dead lever), the nozzle passes.
If the lever has spring tension (live lever i.e. same as dispensing fuel), the nozzle fails.
 - 6) If Check A fails, tag out this Fueling Point and have the nozzle immediately serviced or replaced. Reference nozzle installation or nozzle repair instructions in the ARB Approved Installation, Operation, and Maintenance Manuals.
 - 7) If Check A passes, proceed to Check B.

- Check B**
- 1) While still pointing the nozzle spout in the gasoline compatible container and with the dispenser de-activated, compress the vapor collection sleeve (VCS) by pressing on the face seal, and confirm the lever has spring tension (live lever).
 - 2) Then release the VCS and confirm the lever has **no** spring tension (dead lever).
 - 3) If lever goes live (when the VCS is compressed), and goes dead (when the VCS is released), then the nozzle passes.
 - 4) If lever stays dead (when the VCS is compressed) **or** stays live (when the VCS is released), then the nozzle fails.
 - 5) If check B fails, tag out this Fueling point and have the nozzle immediately serviced or replaced. Reference nozzle installation or nozzle repair instructions in the ARB Approved Installation, Operation, and Maintenance Manuals.

Figure 1
VST Nozzle

