



## Informational Bulletin

### ~~Enhanced Vapor Recovery~~ Optional Veeder-Root In-Station Diagnostic (ISD) Software Update

December 23, 2021

#### Optional Update for Veeder-Root ISD Software for Assist and Balance Phase II Enhanced Vapor Recovery (EVR) Systems

The intent of this informational bulletin is to alert gasoline dispensing facility (GDF) stakeholders of an optional software update to the Veeder-Root ISD system. This bulletin is intended for local air district inspectors, GDF owners/operators, and service technicians performing work on the Veeder-Root ISD system. GDF owners/operators should [contact their local air district](#) to verify the software update is not mandatory.

Veeder-Root's ISD system contains an Onboard Refueling Vapor Recovery (ORVR) penetration table which is used by ISD software to provide an annual estimate of ORVR vehicle percentages at GDFs. This table is used to provide expectations for the ratio of ORVR fueling events to non-ORVR fueling events at each ISD monitored fueling position. The current ORVR penetration table that is being utilized by Veeder-Root's ISD system software does not extend beyond December 31, 2021. On January 1, 2022, all ISD monitored fueling positions may post "No Test (N)" results if a software update or a setting change is not made to the ISD system (described below). The ISD software would be updated to version 1.06 for GDF equipped with a balance EVR system and to version 1.07 for GDF equipped with an assist EVR System. Both are currently under evaluation by CARB and are expected to be certified before the end of 2021.

The following consoles may be affected:

- Veeder-Root TLS-350 series consoles
- Gilbarco EMC consoles
- Red Jacket ProPlus/ProMax consoles

GDF owners/operators may also use an alternative method in lieu of updating the ISD software – **check with your local air district to confirm.** The "NO TEST (N)" results described above can be avoided if the ISD system setting "ACCEPT HIGH ORVR" is programmed to "ENABLED." This setting is typically used for sites which have a higher ORVR percentage dispensing rate than estimated by the ORVR penetration table. When "ACCEPT HIGH ORVR" is set to "ENABLED," all ISD assessments will continue to occur and all ISD warnings and alarms will be posted. Only a service technician or a person who complies with the appropriate Veeder-Root and district training requirements can make this change.

This alternative method can be used as a solution, if approved by the local air district, or until the GDF owners/operators can update the ISD software to the new software version. To lessen the impact to GDF operations, it is recommended that if a GDF owner/operator plans to update the ISD software that it be done during the next required annual site monitor certification required by the local CUPA. Again, please check with your local air district.

Figure 1 shows an example of the “NO TEST” result that may occur.

**Figure 1: Daily Details Report Example**

OVERALL STATUS	:WARN	EVR VAPOR COLLECTION	:WARN
EVR VAPOR CONTAINMENT	:WARN		
ISD MONITOR UP-TIME	:100%		
EVR/ISD PASS TIME	: 37%	VAPOR PROCESSOR	:PASS

Status Codes: (W)Warn (F)Fail (D)Degradation Fail (G)Gross Fail  
(ISD-W)ISD Self-Test Warning (ISD-F)ISD Self-Test Fail (N)No Test

DATE	ISD EVR	ISD %UP	---CONTAINMENT TESTS---						STAGE I	VAPOR PRCSR	---COLLECTION TESTS		
			GROSS 95%	DGRD 75%	MAX "WC	MIN "WC	LEAK CFH	XFR			FP1 BLEND	FP2 BLEND	FP3 BLEND
12/29/21	W	100%	0.2N	-0.5N	0.3	-2.7	13W		PASS	0.97	0.87	0.99	
12/30/21	W	100%	0.0N	-0.5N	0.2	-3.3	17W		PASS	0.90	1.02	0.97	
12/31/21	W	100%	0.2N	-0.5N	3.0	-2.8	15W		PASS	0.91	0.94	1.06	
01/01/22	W	100%	0.1N	-0.5N	0.3	-2.8	15W		PASS	1.07N	0.82N	0.93N	
01/02/22	W	100%	0.0N	-0.4N	0.0	-5.0	16W		PASS	0.89N	0.89N	1.21N	
01/03/22	PASS	100%	0.1N	-0.4N	0.2	-2.2	19N		PASS	0.89N	1.11N	1.12N	
01/04/22	PASS	100%	0.2	-0.4N	5.0	-2.6	14N		PASS	0.95	0.92	1.13	
01/05/22	PASS	100%	0.1	-0.4N	0.2	-2.5	12N		PASS	0.83	0.74	0.97	

NOTE: Dates were changed from MM/DD to MM/DD/YY on the Daily Details Report

Figure 1 shows that all fueling points are passing up until 12/31/21. On 1/1/22, all fueling points post a “No Test (N)” result after the V/L ratio. This is a result of the expired ORVR penetration table in the current software version and the “ACCEPT HIGH ORVR” is set to “DISABLED”. On 1/4/22, after the ISD system setting “ACCEPT HIGH ORVR” is set to “ENABLED”, the “No Test (N)” results no longer post.

If you have questions regarding this informational bulletin, please contact your [local air district](#) or CARB vapor recovery program staff at (916) 327-0900 or via email at [vapor@arb.ca.gov](mailto:vapor@arb.ca.gov).