

ISD Alarm Troubleshooting Summary

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Message	ISD Category	Light	Cause	Suggested Troubleshooting ¹
ISD VAPOR LEAKAGE WARN	Containment	Yellow	Containment system leaks at 2 times the TP-201.3 standard.	<ul style="list-style-type: none"> • Troubleshooting Guide found at www.vsthose.com • Exhibit 4
ISD VAPOR LEAKAGE FAIL ²	Containment	Red	8 th Consecutive Failure of Pressure Integrity (Vapor Leak) Test	
ISD GROSS PRESSURE WARN	Containment	Yellow	95 th percentile of 7-days' ullage pressure exceeds 1.3 IWC.	<ul style="list-style-type: none"> • Troubleshooting Guide found at www.vsthose.com • Exhibit 8 • Exhibit 9
ISD GROSS PRESSURE FAIL ²	Containment	Red	8 th Consecutive Failure of Gross Containment Pressure Test	
ISD DEGRD PRESSURE WARN	Containment	Yellow	75 th percentile of 30-days' ullage pressure exceeds 0.3 IWC.	
ISD DEGRD PRESSURE FAIL ²	Containment	Red	31 st Consecutive Failure of Degradation Pressure Test	
FLOW COLLECT WARN	Collection	Yellow	Vapor collection flow performance is less than 50%.	<ul style="list-style-type: none"> • Troubleshooting Guide found at www.vsthose.com. • Exhibit 5 • Exhibit 13
FLOW COLLECT FAIL ²	Collection	Red	2 nd Consecutive Failure of Vapor Collection Flow Performance Monitoring Test	
ISD VP STATUS WARN ⁴	Processor	Yellow	Failure of Vapor Processor Effluent Emissions or Duty Cycle test.	<ul style="list-style-type: none"> • Troubleshooting Guide found at www.vsthose.com. • Reference VP Emissions and VP Duty Cycle troubleshooting on the next page
ISD VP STATUS FAIL ^{2,4}	Processor	Red	2 nd Consecutive Failure of Vapor Processor Status test.	
ISD VP PRESSURE WARN ^{4,5}	Processor	Yellow	90 th percentile of 1 day ullage pressure exceeds 1 IWC ⁴ . 90 th percentile of 1 day ullage pressure exceeds 2.5 IWC ⁵ .	<ul style="list-style-type: none"> • Troubleshooting Guide found at www.vsthose.com. • Exhibit 8 • Exhibit 9
ISD VP PRESSURE FAIL ^{2,4,5}	Processor	Red	2 nd Consecutive Failure of Vapor Processor Overpressure Test	

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VP EMISSION WARN ^{3,4}	Processor	Yellow	Mass emission exceeded the certified threshold.	<ul style="list-style-type: none"> • Troubleshooting Guide found at www.vsthose.com. • Exhibit 6 • Exhibit 9
VP EMISSION FAIL ⁴	Processor	Red	2 nd Consecutive Mass emission test failure.	
VP DUTY CYCLE WARN ^{3,4}	Processor	Yellow	Duty cycle exceeds 18 hours per day Or 75% of 24 hours.	<ul style="list-style-type: none"> • Troubleshooting Guide found at www.vsthose.com. • PMC Setup Procedure • Exhibit 8 • Exhibit 9 • Exhibit 4
VP DUTY CYCLE FAIL ⁴	Processor	Red	2 nd Consecutive Duty Cycle Test Failure.	
ISD SENSOR OUT WARN	Self-Test	Yellow	Failure of Sensor Self-Test	<ul style="list-style-type: none"> • Confirm ISD sensor & module installation / communication per VR 204 IOM Section 16, Chapter 2
ISD SENSOR OUT FAIL	Self-Test	Red	8 th Consecutive Failure of Sensor Self-Test	
ISD SETUP WARN	Self-Test	Yellow	Failure of Setup Test	<ul style="list-style-type: none"> • Confirm EVR/ISD programming per VR 204 IOM Section 16
ISD SETUP FAIL ²	Self-Test	Red	8 th Consecutive Failure of Setup Test	

¹See ISD Troubleshooting Manual P/N 577013-819 and the VST ISD Troubleshooting Guide 9513-003 found at www.vsthose.com for a complete list of suggestions.

²ISD Site shut down alarms

³This warning will result in a ISD VP Status Warn

⁴VST ECS Membrane Processor.

⁵Veeder-Root Polisher