

## PMC Alarm Troubleshooting Summary for VST ECS Membrane Processor

Displayed Message	Description	Light Indicator	Suggested Troubleshooting
VP EMISSION WARN	Mass emission exceeded the certified daily threshold.	Yellow	<ul style="list-style-type: none"> <li>• Troubleshooting Guide <a href="http://www.vsthose.com">www.vsthose.com</a>.</li> <li>• Exhibit 8</li> <li>• Exhibit 9</li> </ul>
VP EMISSION FAIL	2 <sup>nd</sup> Consecutive mass emission failure.	Red	
PMC SETUP FAIL	PMC is not configured or missing components.	Red	<ul style="list-style-type: none"> <li>• Troubleshooting Guide <a href="http://www.vsthose.com">www.vsthose.com</a>.</li> <li>• See ISD Troubleshooting Guide, P/N 577013-819.</li> <li>• Exhibit 8</li> <li>• Exhibit 9</li> </ul>
PMC SENSOR FAULT	Component used by PMC has failed or reported an error condition. See Troubleshooting section for complete description of sensors and associated conditions that can cause a sensor fault.	Red	<ul style="list-style-type: none"> <li>• Check for Smart Sensor Device Alarm or Fault.</li> </ul>
VP DUTY CYCLE WARN	Duty cycle exceeds 18 hours per day or 75% of 24 hours.	Yellow	<ul style="list-style-type: none"> <li>• Troubleshooting Guide <a href="http://www.vsthose.com">www.vsthose.com</a>.</li> <li>• TLS 350 PMC Setup Procedure</li> <li>• Exhibit 10</li> <li>• Exhibit 9</li> <li>• Exhibit 4</li> </ul>
VP DUTY CYCLE FAIL	2 <sup>nd</sup> Consecutive Duty Cycle Failure.	Red	

## PMC Alarm Troubleshooting Summary for Veeder-Root Vapor Polisher

Displayed Message	Description	Light Indicator	Suggested Troubleshooting <sup>1</sup>
VP EMISSION WARN	Mass emission exceeded the certified daily threshold.	Yellow	Ensure Polisher is in Automatic Mode. Resolve any Vapor Valve Sensor Fault Alarms.
VP EMISSION FAIL	2 <sup>nd</sup> consecutive mass emission failure.	Red	
PMC SETUP FAIL	PMC is not configured or missing components.	Red	Ensure that all required components are installed and operational.
PMC SENSOR FAULT	Component used by PMC has failed or reported an error condition. See Troubleshooting section for complete description of sensors and associated conditions that can cause a sensor fault.	Red	Check for Smart Sensor Device Alarm or Fault.
<sup>1</sup> Refer to Troubleshooting Section of IOM 15 and ISD/PMC Troubleshooting Guide 577013-819			

## Wireless Related Sensor Warning for Veeder-Root Vapor Polisher (if wireless Vapor Polisher is installed)

Displayed Message	Description	Light Indicator	Suggested Troubleshooting
Battery Warning	Vapor Valve transmitter reports battery status as "Replace" for 24 hours.	Yellow	Remove and replace battery.

## Alarm Troubleshooting Summary For Hirt VCS 100 Processor

VCS 100 Indicator Panel	Description	Light Indicator	Recommended Troubleshooting
OVERPRESSURE LIGHT	UST ullage pressure is positive for at least 1 continuous hour.	Red	<p>GDF Owner/Operator Responsibilities:</p> <ul style="list-style-type: none"> <li>• “Weekly Inspections” of Hanging Hardware as specified in section 2 of Installation, Operation, and Maintenance Manual.</li> <li>• “Drive-Offs and Other Customer Abuse” as specified in section 5 of Installation, Operation, and Maintenance Manual.</li> <li>• Exhibit 7 of Executive Order VR-203</li> <li>• Record findings in GDF Owner/Operator Maintenance Log.</li> </ul> <p>Certified Contractor Responsibilities:</p> <ul style="list-style-type: none"> <li>• Follow VCS 100 Troubleshooting Guide (Contact Hirt by either Phone: (562) 692-6970 or by email: <a href="mailto:HirtVCS@aol.com">HirtVCS@aol.com</a> to get Guide)</li> <li>• TP-201.3 and Exhibit 4 of Executive Order VR-203</li> <li>• Exhibit 7 of Executive Order VR-203</li> <li>• Exhibit 13 of Executive Order VR-203</li> <li>• Record findings in GDF Owner/Operator Maintenance Log.</li> </ul>