

## 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/carbs_components.aspx">http://www.vsthose.com/carbs_components.aspx</a>.</li> </ul>
VP EMISSION FAIL	2 <sup>nd</sup> Consecutive mass emission failure.	Red	<ul style="list-style-type: none"> <li>• Exhibit 8</li> <li>• Exhibit 9</li> </ul>
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/carbs_components.aspx">http://www.vsthose.com/carbs_components.aspx</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/carbs_components.aspx">http://www.vsthose.com/carbs_components.aspx</a>.</li> </ul>
VP DUTY CYCLE FAIL	2 <sup>nd</sup> Consecutive Duty Cycle Failure.	Red	<ul style="list-style-type: none"> <li>• TLS 350 PMC Setup Procedure</li> <li>• Exhibit 10</li> <li>• Exhibit 9</li> <li>• Exhibit 4</li> </ul>

**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	<ul style="list-style-type: none"> <li>Ensure Polisher is in Automatic Mode. Resolve any Vapor Valve Sensor Fault Alarms.</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>Ensure that all required components are installed and operational.</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>

<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	<ul style="list-style-type: none"> <li>Remove and replace battery.</li> </ul>

**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>