

Annual Inspections

Annual VST ECS Membrane <i>Processor</i> Inspections and Replacements					
Component	Procedure	Fail Criteria	Corrective Action	Reference Manuals	Authorized Personnel
Blower	Replace the blower every ten years or 15,000 hrs. (whichever comes first).			IOM - 15	VST ASC Level C
Vacuum pump	Replace blower every ten years or 15,000 hrs. (whichever comes first).				
Vacuum pump drive coupling - rubber insert	Visually inspect the drive coupling between the vacuum pump and the motor for wear	Rubber debris is found on or around the vacuum-pump base.	Replace the drive coupling rubber insert	IOM - 15	
Heat Trace Cable	Check the continuity of the heat trace cable.	If the heat trace cable circuit is open, the cable has failed.	Replace the heat- trace cable	IOM - 15	
HC Sensor	Test the HC sensor	The difference shall be within $\pm 1.0\%$ HC concentration from the calibration gas concentration. Record "Pass" if within $\pm 1.0\%$ or "Fail" if not within $\pm 1.0\%$.	Replace the HC Sensor	IOM - 15 and Exhibit 6	

Preventative Maintenance Checklist Form

Component	Frequency	Date Inspected	Completed	Required Action Items
VST ECS PROCESSOR				
<ul style="list-style-type: none"> Inspect drive coupling on the vacuum pump. 	Yearly		[]	
<ul style="list-style-type: none"> Check the continuity of the heat trace cable. 			[]	
RECIRCULATION BLOWER				
Replace every 10 years or 15,000 hours, whichever comes first.			[]	
VACUUM PUMP				
Replace every 10 years or 15,000 hours, whichever comes first.			[]	

Annual System Compliance Testing

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Static Pressure Test:	TP-201.3 Exhibit 4
Dynamic Back Pressure Test:	TP-201.4
Liquid Removal Test Procedure:	Exhibit 5
Hydrocarbon Sensor Verification Test: VST ECS Membrane Processor	Exhibit 6
Vapor Pressure Sensor Verification Test:	Exhibit 8
VST ECS Membrane Processor Activation Test:	Exhibit 9
Nozzle Bag Test Procedure:	Exhibit 10
V-R Vapor Polisher Operability Tests:	Exhibit 11
V-R Vapor Polisher Compliance Test	Exhibit 12
ISD Operability Test: (Flow Meter Operability Test)	Exhibit 13