Parameter	Frequency	Malfunction Detection		Corrective Action	
Scrubber inlet flow rate					
- Flow Rate Monitoring	Continuous	The wet scrubber is equipped with a sight glass and a float wet scrubber. Because the diaphragm pump causes a pulsir up and down the sight glass column. Using this system it is a rate is continuously being met. Therefore, flow rate monito that the system is functioning properly. Proper operation is glass. System leaks or blockages would cause this normal further states and the system is functional functional states and the system is functional states and the	NA		
- System Leak	NA	If a system leak occurs, the back pressure on the diaphragm difference in the sound of the pump and/or an increase in t doesn't change the back pressure on the pump would not b on the ground would be an indicator of a leak. The sight glass float would also be an indicator of a system occurs, it is anticipated the range of the float would rise in t leak would see the float rise to near the top of the sight glass float only changes slightly.	Corrective measures include shutting the system down and fixing the leak then re-starting the process. Normal shutdown and startup procedures will be followed.		
- System Blockage	NA	If the system becomes plugged or blocked the back pressur would cause an audible difference in the sound of the pump Alternatively, a small blockage that doesn't change the back but also would not affect system performance significantly. The sight glass float would also be an indicator of a system blockage occurs, it is anticipated the range of the float wou A large leak would see the float fall to near the bottom of the range of the float only changes slightly.	Corrective measures include shutting the system down and fixing the blockage then re-starting the process. Normal shutdown and startup procedures will be followed.		
Parameter	Frequency	Normal operating range	Alarm range	Response	Corrective action
Carbon breakthrough at Carbon Canister outlet	Once each calendar day during operation when cleaning occurs	<0.1 %CH₄ (i.e., 1,000 ppm) as measured by MSA Altair 5X Multigas Detector (in 100% Volume IR Mode)	MSA Altair 5X Multigas Detector has no alarm in the 100% Volume IR Mode	Schedule carbon changeout. Change out carbon and record date.	Stop waste tank washing if Carbon Canister outlet concentration exceeds 0.4 %CH ₄ (i.e., >4,000 ppm)

Do Not Operate Process Unless Wet Scrubber/Carbon System is properly operating. If replacement parts are needed, cleaning operations will not resume until parts are obtained and installed.