

Chlorine Dioxide System

CDB-2.5

Regular Maintenance Checks

Upon Arrival to the site: Clean existing caustic leaks and or address electrocide leaks if any. To test the function of the unit and force it to run you can detach the lower level switch and the unit will be triggered to run despite the solution tank level.

View existing alarm log and current alarm status. Reset if necessary and not any reoccurring errors in the comments below.

Section 1

Water supply	Default Values or Comments
Dilution water pressure Bar Psi	3.5 Bar – 55 psi
Dilution water flow L/hr GPH	23 L/hr 6.1 GPH
Electricide-P1 Supply	
Electricide-P1 Dosing pump o.k. <input type="checkbox"/> leaks <input type="checkbox"/> Stroke length setting %	Manually run P1 (via Device Status) and insure that the flow is within spec. Replace tube during annual
Generator	
Anolyte mag drive pump 2-60-PU o.k. <input type="checkbox"/> leaks <input type="checkbox"/> noisy <input type="checkbox"/>	Notice flowrate just above the 2-60-PU graphic on the overview page. Should be 2-5 gpm
ClO ₂ solution recirc pump 2-13-PU o.k. <input type="checkbox"/> leaks <input type="checkbox"/> noisy <input type="checkbox"/>	Notice the airflow rate just below the 2-13 PU graphic on the overview page. Should be 0.2-0.8 cfm
Gas separator column o.k. <input type="checkbox"/> leaks <input type="checkbox"/> leaks fixed <input type="checkbox"/>	
Catholyte quality clear <input type="checkbox"/> milky <input type="checkbox"/> color	Clear to milky. Look at catholyte column and make sure the level is at the overflow. Snake drain during annual
Cell (check both sides) o.k. <input type="checkbox"/> leaks <input type="checkbox"/> cable heat (melted) <input type="checkbox"/>	Check amperage for ClO ₂ output
ClO ₂ Solution tank o.k. <input type="checkbox"/> leaks <input type="checkbox"/> leaks fixed <input type="checkbox"/>	Activate Dilution Water solenoid and check and validate Flow sensor is functioning. Clean during annual
Color in solution tank sight tube	(green-yellow) – may be clear but solution leaving the dosing pump should have good color and 2000 ppm
ClO ₂ Solution tank level switches o.k. <input type="checkbox"/> faulty <input type="checkbox"/> replaced <input type="checkbox"/>	
Hydrogen blower o.k. <input type="checkbox"/> faulty <input type="checkbox"/> replaced <input type="checkbox"/>	
Blower pressure switch o.k. <input type="checkbox"/> faulty <input type="checkbox"/> adjusted <input type="checkbox"/>	Check and replace during annual
ClO ₂ dosing pump 1 o.k. <input type="checkbox"/> leaks <input type="checkbox"/> leaks fixed <input type="checkbox"/> Gaskets replaced <input type="checkbox"/> Liquid end kit required <input type="checkbox"/> liquid end kit installed <input type="checkbox"/>	Maintain Pump during annual
ClO ₂ dosing pump 2 o.k. <input type="checkbox"/> leaks <input type="checkbox"/> leaks fixed <input type="checkbox"/> Gaskets replaced <input type="checkbox"/> Liquid end kit required <input type="checkbox"/> liquid end kit installed <input type="checkbox"/>	Maintain Pump during annual
Ball valves o.k. <input type="checkbox"/> faulty <input type="checkbox"/> replaced <input type="checkbox"/> valves replaced	
Union “O” rings o.k. <input type="checkbox"/> faulty <input type="checkbox"/> replaced <input type="checkbox"/> “O” rings replaced	

Section 2 - General Checks	
Color of anolyte	yellow-green to brown
Height of anolyte in gas separator sight tube o.k. <input type="checkbox"/>	At overflow after batch has stopped and recirc pumps have stopped
Any leaks visible at PVDF anolyte or catholyte tube connections? o.k. <input type="checkbox"/>	Replace with Female Adaptor and PVC glue to prevent weeping
If yes, describe where and if the leaks are fixed	

Comments

Inspector

Date