Typical Operating Difficulties (Off-Gas)

	Symptom	Problem	Cause	Possible Solutions
Off-Gas Condenser	Hi Back Pressure on HCl Line to Condenser	Pluggage (no gas passing through)	Water too cold	Heat water to 90°C. and circulate (sewer HCl so chlorinators can run)
	HCl temperature below 50°C coming out of condenser.	Water temp. too cold	Control valve on water line open.	1. Raise set point on temperature controller to desired temp. 2. Open valve on steam line 1 or 2 turns to heat the water.
	HCl temperature above 50°C. coming out of condenser.	Water too hot	1. System not full of water 2. Circulating pump is off.	1. Open water control valve by lowering set point on controller. 2. Turn the pump on.
Off-Gas Storage ank	TIC Reading above 50°C	Material in tank is too hot	1. Steam is on plate coil on tank. 2. Condenser water too hot.	1. Lower controller set point to close the steam valve. 2. Lower set point on controller for condenser cooling water.
	Chlorine Feed to chlorinators are steadily lowered, or rupture disc blows on stg. tank.	High back pressure on tank.	1. Dept. 218 valve is closed. 2. Brink demisters blinded.	1. Call operator at Dept. 218, have him check his valves. 2. Contact supervision. (Sewer HCl so chlorinators can run).
	Same as above	High pressure difference on Brink (above 5").	Brink demister blinding	Contact supervision.
	Sudden increase in tank level.	Too much flow coming over in HCl line.	Overcharged chlorinator.	Check sight glasses on all chlorinator off-gas lines. (Check Sp.Gr. on all chlorinators to guard against short charge).

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