SECTION T5.55

R. P. ADAMS PORO-EDGE STRAINERS TROUBLESHOOTING GUIDE

		<u>SYMPTOM</u>	POSSIBLE CAUSE		CTIVE ACTION		
	1)	Drive motor running, but shaft between speed reducer and packing gland not turning (SHEARED KEY)	Obstruction in element/backwash arm Stop collar not set (VWS-7 to H/VDWS-314) High differential pressure Packing gland too tight Improper tube sheet to seal plate clearance	See Symptom Loosen, replac necessary	after setting seal plate gap 4 e packing if to ¹ /8″, using spacer		
	2)	Continuous or frequent backwash (differential pressure normal)	Excessive incoming solids Faulty or improperly set DP switch Optional backwash initiation timer (TR) set too low Control panel selector switch in 'HAND'	Reduce solids	loading , replace if necessary		
	3)	Strainer not backwashing (differential pressure high)	No power to control panel Faulty signal wiring from DP switch Faulty or improperly set DP switch Control panel selector switch in 'OFF' Faulty backwash duration timer (TDR) Blown fuse in strainer control panel Instrument tubing to DP switch plugged Valves to DP switch closed Motor overloads tripped	Restore service Check wiring Check set poin necessary Return to 'AUT Replace timer Determine cau replace Remove tubing Open Valves Reset overload	it, replace if O' position se of fuse failure, g and clean		
SUPERSEDES TD-45942 (10/21/87)	4)	Continuous or frequent backwash (differential pressure high)	Plugged elements Inadequate backwash duration Inadequate backwash frequency Excessive flow rate through strainer Sheared key (see Symptom 1) Inadequate backwash pressure Excessive incoming solids loading Backwash valve closed during backwash (See Symptom 6)	elements by l persists Set backwash to 2-3 minute Decrease back Decrease flow Increase strain pressure to 2	wash strainer, clean hand if condition duration timer (TDR) s wash interval timer rate er operating 5 PSIG minimum tinuously, reduce		
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	<u>SYMPTOM</u>	POSSIBLE CAUSE		CTIVE ACTION	
4)	CONTINUED	Excessive back pressure downstream of backwash valve	Reduce back pressure		
		Distributor barrel/seal plate worn Replace distr (Contact surface less than ³ / ₁₆ " tk.)		outor barrel/seal plate	
5)	Drive motor overload Starter overload heaters improper sized		Install proper size overload heaters		
		Low voltage supply to motor Packing gland too tight Speed reducer damaged Motor damaged	Restore proper Loosen packin Repair/replace Replace motor	g gland speed reducer	
		No clearance between seal plate and tubesheet	Set clearance seal plate an	at ¹ /8″ gap between d tubesheet when fully recessed.	
6)	Backwash valve closed during backwash	Actuator improperly wired	Check electrical drawings, re-wire, check wire continuity Replace actuator Replace timer Adjust and tighten cams		
		Valve actuator damaged Faulty backwash duration timer (TDR)			
		Valve actuator cams loose (electric valve) or cam(s) displaced			
		Valve stem stuck or clutch disengaged (electric valve)	Clean and lubricate stem, push and twist stem to engage clutch		
7)	Water leak at weep holes on drive shaft (VWS-7	Worn drive shaft gasket or gasket missing	Replace drive	Replace drive shaft gasket	
	to H/VWS-40)	Loose drive shaft hex and jam nut Loose drive shaft stud	Tighten hex nut and jam nut Loosen hex and jam nuts, tighten		
		Drive shaft coupling halves not engaged	Loosen hex an	ten hex and jam nuts nd jam nuts, tighten e coupling, re-tighten nuts	
8)	Water leak at packing	Loose packing gland	Tighten packing gland		
		Worn packing Worn drive shaft	Replace drive	ng & split ring gaskets shaft (Consider use oated drive shaft if ersistent)	
9)	Excessive backwash flow rate		Contact factory backwash flo	ory regarding throttling flow	
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