OPERATION OF CONTROL AND REGENERATION PROGRAM FOR STEAM GENERATORS BLOWDOWN CLEAN-UP MIXED BED DEMINERALIZERS

					FLOW CONTROL VALVE (MIXED BED DEMINERALIZERS: 1-1/1-2 .													FLOW CONTROL VALVE (ACID SOLUTION)						FLOW CONTROL VALVE (CAUSTIC SOLUTION)										
STEP SWITCH NO.							A	B	E	F	C	D	G	H		I			K	L	M				N	O	P					J	Q	R	S	T
					FCV-841 FCV-842	FCV-843 FCV-844	FCV-845 FCV-846	FCV-847 FCV-848	FCV-849 FCV-850	FCV-851 FCV-852	FCV-853 FCV-854	FCV-855 FCV-856	FCV-857 FCV-858	FCV-859 FCV-860	FCV-869			FCV-870	FCV-865	FCV-866	FCV-867	FCV-868A	FCV-868B	-	FCV-871	FCV-872	FCV 873A	-	-	FCV-874	FCV 873B					
					SERVICE		BACKWASH		RINSE										DI-LUTION WATER	BACK-WASH	SHUT-OFF		LEAK OFF	PUMP	DILUTION WATER		SHUT-OFF CAUSTIC	CAUSTIC TEMP CONTROL	PUMP	SHUT OFF WATER	LEAK OFF	REGEN COM-PLETE RESET	FINAL RINSE COND CHECK	TIMER RESET	REGEN COM-PLETE ALARM	REGEN RESET
STEP	FUNCTION AND DESCRIPTION	RATE (GPM)	SOURCE	TIME (MIN)	INLET	OUTLET	ACID INLET	OUTLET	INLET	OUTLET	CAUSTIC INLET	INTER-FACE OUTLET	AIR INLET	VENT	SERIES			ISO-LATION			WATER	ACID			COLD	HOT										
1	LAG			0.5																			○							○			⊗		
2	BACKWASH	60	RI	15			○	○												○			○							○					
3	LAG			0.5																			○							○					
4	ACID DRAW	0.58	H_2SO_4	20			○				○	○							○		○	○		R		○	○	○	R	○					
		24.5	RI																																
	CAUSTIC DRAW (4B)	0.9	NaOH																																
		16	RI																																
5	ACID DISPLACE	24.5	RI	20 (4B)			○				○	○							○				○			○	○	○	R	○					
	CAUSTIC DRAW (4B)	0.9	NaOH																																
		16	RI																																
6	CATION RINSE	24.5	RI	16			○				○	○							○				○			○				○					
	CAUSTIC DISPLACE	14.2	RI																																
7	CATION RINSE	24.5	RI	19			○		○			○							○				○		○					○					
	ANION RINSE	75	RI																																
8	BED LEVEL DRAIN			10				○		○		○		○									○							○					
9	BACKFILL (12")	24.5	RI	6	○									○					○				○							○					
10	AIR MIX (NO.1)	147 SCFM		10									○	○									○							○					
11	LAG			0.5																			○							○			⊗		
12	BED LEVEL DRAIN			5				○		○		○		○									○							○					
13	AIR MIX (NO.2)	147 SCFM		10									○	○									○							○					
14	REFILL	75	RI	12					○					○									○		○					○					
15	FINAL RINSE	75	RI	5					○	○													○		○					○					
16	CONDUCTIVITY CHECK	5	RI	2					○	○													○							○		⊗			
17																															⊗		⊗		
18	SERVICE		SI																				○							○				⊗	
MANUAL	SERVICE RINSE	75	RI	5					○	○													○		○					○					
MANUAL	CONDUCTIVITY CHECK	5	RI	2					○														○		○					○					

BY SELECTOR SWITCH — BY SELECTOR SWITCH — ON HIGH CONDUCTIVITY

LEGEND: ○ VALVE OPEN (PIN INSERTED) ⊗ VALVE CLOSED R PUMP RUNNING
RI REGENERANT INLET WATER SI SERVICE INLET ⊗ PIN INSERTED
H_2SO_4 – 98% ACID NaOH – 50% CAUSTIC

UNIT - 1 (4)

P. G. & E. CO. | SHEET 9 OF SHEETS | 102004 | CHANGE 19

35 M/M NEG | SCANNED: