SETPOINT CHART	ANGE	XECIPE 00 GAL MIX TANK - ZONE 1	00 GAL MIX TANK - ZONE 2	000 GAL MIX TANK 1 - ZONE 1	000 GAL MIX TANK 1 - ZONE 2	000 GAL MIX TANK 2 - ZONE 1 000 GAL MIX TANK 2 - ZONE 2	ECIPE#7	ECIPE#8	ECIPE#10	IECIPE#11	IECIPE#12	ECIPE#13	ECIPE#14	ECIPE#15	ECIPE#16	ECIPE#17	LECIPE#18	IECIPE#19	ECIPE#20	IECIPE #21	COT LIVE	ECIPE#23	ECIPE #25	IECIPE #26	ECIPE #27	ECIPE #28	ECIPE #29	ECIPE#30	ECIPE#31	IECIPE#32	ECIPE#33	IECIPE#34	00 GAL MIX TANK - COMMS TEST	000 GAL MIX TANK 1 - COMMS TEST	000 GAL MIX TANK 2 - COMMS TEST	YSTEM PERFORMANCE	AT TEST RECIPE	EPARATOR TANK FLUSH
DESCRIPTION		<u> </u>	- 2	6	-	10 00		80 0	, 2	Ξ	5	5	4	5	9	4	8	0	8	2 8		3 8	8	92	23	80	g:	8	<u> </u>	8	83	2	28	8	37	88	22	8
1 SUPPLY TEMP 1 (PRE-RINSE)	0-100 C	1 55	55	55	55	55 55			5 55	_	55	55		_	_	55	55				5 5		55			•	•••	•••	55		- "	55	55	55	55	20	55	55
2 SUPPLY TEMP 2 (RINSE)	0-100 C		65			65 65			5 65			65		65		65				65 6				65					65			65				90		65
3 SUPPLY TEMP 3 (ALKALINE WASH)	0-100 C	3 60	60	60	60	60 60	60	60 6	0 60	60	60	60	60	60	60	60	60	60 6	60	60 6	0 6	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
4 SUPPLY TEMP 4 (ACID WASH)				45			45		5 45					45				45 4				15 45			45				45			45					45	
5 SUPPLY TEMP 5 (FINAL RINSE)	0-100 C	5 65	65	65	65	65 65	65	65 6	5 65	65	65	65	65	65	65	65	65	65 6	65	65 6	5 6	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
7 RETURN TEMP 1 (PRE-RINSE)	0-100 C	7 53	53	53	53	53 53	53	53 5	3 53	53	53	53	53	53	53	53	53	53 5	53	53 5	3 5	53 53	53	53	53	53	53	53	53	53	53	53	53	53	53	20	53	53
8 RETURN TEMP 2 (RINSE)	0-100 C			63	63	63 63	63	63 6	3 63	63	63	63	63		63	63	63	63 6	63	63 6	3 6		63	63	63		63	63	63	63		63	63	63	63	85	63	63
9 RETURN TEMP 3 (ALKALINE WASH)	0-100 C	9 57	57	57	57	57 57	57	57 5	7 57	57	57	57	57	57	57	57	57	57	57	57 5	7 5	57 57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
10 RETURN TEMP 4 (ACID WASH)	0-100 C			43		43 43			3 43		43			43		43					3 4											43	43	43	43	43		43
11 RETURN TEMP 5 (FINAL RINSE)	0-100 C	11 63	63	63	63	63 63	63	63 6	3 63	63	63	63	63	63	63	63	63	63 6	63	63 6	3 6	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
12 13 HIGH SUPPLY TEMPERATURE	0-100 C	13 85	25	85	85	85 95	85	85 0	5 QF	95	25	85	85	85	85	25	85	85 0	85	85 8	5 0	85 85	85	85	85	85	85	85	85	85	85	85	85	85	85	95	85	85
14 SUPPLY TEMPERATURE HOLD WATCHDOG	0-9999 SEC	14 300	300	300	300	85 85 300 300	300 3	300 30	00 300	85 300	300	85 300	300	300	300	85 300	300	300 3	800	300 30	10 3	35 85 00 300	85 300	300	300	300	300	300	85 300	300	85 300	300	85 300	300	300	95 9999	300	300
15 RETURN TEMPERATURE HOLD WATCHDOG	0-9999 SEC			900	900	900 900	900 9	900 90	00 900			900	900	900	900	900	900	900 9	000	900 90	0 9	00 900	900			900	900	900	900	900	900	900	900	900		9999		900
16		16		\sqcup						1		$ldsymbol{\sqcup}$											$oxed{\Box}$															
17 ALKALINE CONDUCTIVITY	0-100.0 mS/cm	17 15.0	15.0	15.0	15.0	15.0 15.0	0 15.0 1 0 14.0 1	15.0 15	5.0 15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0 1	5.0	15.0 15		5.0 15.0	15.0	15.0	15.0	5.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
18 ALKALINE CONDUCTIVITY HOLD 19 ALKALINE PUMP INJECTION TIME	0-100.0 mS/cm 0-999 SEC			14.0 15		15 15			1.0 14.0 5 15					14.0 15		14.0	14.0 15			14.0 14 15 1	.0 14				14.0				14.0 15			14.0 15		14.0	14.0 15		14.0 15	14.0 15
20 ALKALINE MIX TIME	0-999 SEC			45			45		5 45					45				45 4				15 45			45			45				45		45			45	45
21 ALKALINE PUMP BURST ON	0-999 SEC	21 5	5	5	5	5 5	5	5 5	5 5	5	5	5	5	5		5	5	5	5	5 5	,	5 5	5	5	5	5	5	5	5	5	5		5	5	5	5	5	5
22 ALKALINE PUMP BURST OFF	0-999 SEC	22 15	15	15	15	15 15	15		5 15	15	15	15	15	15 300	15	15 300	15	15	15	15 1	5 1	15 15	15	15 300	15	15	15	15	15	15	15	15	15 300	15	15 300	15	15	15 300
23 ALKALINE CONDUCTIVITY HOLD WATCHDOG	0-999 SEC	23 300	300	300	300	300 300	300 3	300 30	00 300	300	300	300	300	300	300	300	300	300 3	00	300 30	0 3	00 300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
24	0.400.0 0/	24	40.0	40.0	40.0	100 101	100	100 40	100	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	100 1	0.0	100 10	0 4	100	40.0	40.0	40.0	0.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	10.0	40.0	40.0
25 ACID CONDUCTIVITY 26 ACID CONDUCTIVITY HOLD	0-100.0 mS/cm	26 9.0	9.0	10.0	9.0	an an	9.0	an a	0.0 10.0	9.0	10.0 9.0	9.0	9.0	10.0	9.0	10.0	10.0	9.0	0.0	10.0 10	.U 10	0.0 10.0	9.0	10.0		9.0	9.0	9.0	10.0	9.0	9.0	10.0	9.0	9.0	10.0	10.0 9.0		10.0
27 ACID PUMP INJECTION TIME	0-999 SEC	27 10	10	9.0 10	10	10 10	9.0	10 1	.0 9.0 0 10	9.0	10	10	10	9.0 10	9.0 10	10	10	9.0 9	10	9.0 9. 10 1	0 3	0.0 9.0 10 10	9.0 10	10	10	10	10	10	9.0 10	9.0	10	9.0 10	10	10	9.0 10	10		9.0
28 ACID MIX TIME	0-999 SEC			50		50 50			0 50		50	50	50	50	50	50	50	50	50	50 5			50	50	50	50	50	50	50	50	50	50	50	50		50	50	50
29 ACID PUMP BURST ON				3		3 3	3	3 3	3 3	3	3			3		3	3	3	3	3 3	3	3 3	3	3	3	3	3	3	3	3		3			3	3	3	3
30 ACID PUMP BURST OFF	0-999 SEC					17 17			7 17		17	17	17		17	17	17			17 1		17 17	17	17					17	17	17	17	17	17	17	17	17	17
31 ACID CONDUCTIVITY HOLD WATCHDOG	0-999 SEC	31 300	300	300	300	300 300	300 3	300 30	00 300	300	300	300	300	300	300	300	300	300 3	00	300 30	0 3	00 300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
33 RINSE CONDUCTIVITY	0 - 10.0 μS/cm	33 2.0	2.0	2.0	2.0	2.0 2.0	2.0	2.0 2.	0 2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0 2	2.0	2.0 2.	0 2	2.0 2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
34 RINSE CONDUCTIVITY HOLD WATCHDOG	0-999 SEC			900			900 9							900								00 900		900					900			900					900	900
35		35																																				
36		36																	_																			
37 SUPPLY FLOW RATE - ZONE 1 38 SUPPLY FLOW RATE - ZONE 2	0-150 GPM 0-150 GPM		73	73 43	73	73 73	43	73 7	3 73	73	73 43	73	73	73 43			73	73 7		73 73	3 7		73	73 43	73 43		73	73	73 43	73 43	73	73 43	73 43	73 43	73	73	73 43	73 43
39	0-130 GFW	39	43	43	43	43 43	43	43 4	3 43	43	43	43	43	43	43	43	43	40 '	+3	43 4	3 4	13 43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
40		40																																				
41 HIGH SUPPLY FLOW ALARM - ZONE 1	0-150 GPM			78	78	78 78		78 7	8 78	78	78	78			78	78	78		78	78 7		78 78	78	78	78		78	78	78	78	78		78	78	78	78	78	78
42 LOW SUPPLY FLOW ALARM - ZONE 1 43 HIGH SUPPLY FLOW ALARM - ZONE 2	0-150 GPM 0-150 GPM	42 5		5 48	5	5 5		5 5 48 4	5 5 8 48	5 48	5 48	5	5 48	5 48	5 48	5 48	5 48	5 48	5 48	5 5 48 4	8 4	5 5 18 48	5 48	5 48	5 48	5 48	5	5 48	5	5 48	5 48	5	5 48	5 48	5 48	5 48	5 48	5 48
44 LOW SUPPLY FLOW ALARM - ZONE 2	0-150 GPM 0-150 GPM		48 5		5	5 5		5 5	5 5	5	5	48 5	48 5	48 5	5	5	5	5	5	5 5	6 4		48 5	5	5	5	5	5	5	5	5	5	48 5	48 5	5	5	5	5
45 PUMP TO DRAIN FLOW MODULATION	0-100 %	_	_	50	50	50 50		50 5	0 50	50	50	50	50		50	50	50		50	50 5		50 50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
46 PW DRAIN FLOW MODULATION - ZONE 1	0-100 %	46 40	40	40	40	40 40	40	40 4	0 40	40	40	40	40	40	40	40	40	40	40	40 4	0 4	10 40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
47 PW DRAIN FLOW MODULATION - ZONE 2	0-100 %	47 30	30	30	30	30 30	30	30 3	0 30	30	30	30	30	30	30	30	30	30 3	30	30 3	0 3	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
48 49 SEPARATOR FILL HOLD WATCHDOG	0.000.000	40 100	100	100	100	100 100	100	100 40	20 100	100	100	100	100	100	100	100	100	100 4	90	100 40	0 4	00 100	100	100	100	100	100	100	100	100	100	100	100	190	100	100	100	190
50 SEPARATOR FILL HOLD WATCHDOG 50 SEPARATOR EMPTY HOLD WATCHDOG	0-999 SEC 0-999 SEC			180	180	180 180	180	180 18	30 180	180	180	180	180	180	180	180	180	180 1	80	180 18	0 1	80 180 80 180	180	180	180 180	180	180	180	180	180 180	180	180 180	180	180	180	180	180 180	180
51		51	1.00	1.00			1.50			1.00	1		. 30			1					<u> </u>										. 50							
52 SEPARATOR LOW LEVEL SHUTDOWN DELAY	0-999 SEC	52 30		30	30	30 30	30	30 3	0 30	30	30	30	30	30	30	30	30	30 3	30	30 3	0 3	00	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
53 HIGH SUPPLY PRESSURE ALARM - ZONE 1	0-100 PSIG		85			85 85			5 85			85	85	85		85	85					35 85	85	85			85	85	85	85	85	85	85	85	85	85	85	85
54 LOW SUPPLY PRESSURE ALARM - ZONE 1 55 HIGH SUPPLY PRESSURE ALARM - ZONE 2	0-100 PSIG 0-100 PSIG		5		5	5 5 80 80		5 5 80 8	5 5		5		5 80		5 80	5	5		5 80	5 5 80 8		5 5 80 80	5	5	_			5		5		5		5	5	5		5
56 LOW SUPPLY PRESSURE ALARM - ZONE 2	0-100 PSIG 0-100 PSIG		80 5		5	80 80 5 5	80 5	5 5	0 80	80 5	80 5	80 5	80 5		5	80 5	80 5	80 8 5	5	5 5	5 5	80 80 5 5	80 5	80 5	80 5	80 5	80 5	80 5	80 5	80 5	80 5	80 5	80 5	80 5	80 5	80 5		80 5
57 DRAIN COOLING TEMPERATURE	0-100 C		_	75	75	75 75	75	75 7	5 75	75	75	_	_	75	75	75	75	75	75	75 7	5 7		75	75	75	75	75	75	75	75	75	75					75	75
58 HIGH DRAIN COOLING TEMPERATURE	0-100 C	58 80	80	80	80	80 80		80 8	0 80		80	80	80	80	80	80	80			80 8			80	80			80	80	80	80	80	80	80	80	80	80	80	80
59		59		$\perp \neg$	$oxed{\Box}$		\perp	_ _]]
60		60	+ -	1	1	4 .		_	<u> </u>	1	_		_			_	0		_		_	<u> </u>				_					_	0	_		0	0	0	
61 RECIPE AUTO PRINT	0-1	62	1	1	-	1 1	0	0 (0	U	U	U	U	0	0	U	0	U	0	0 0	<u>'</u>	0 0	U	U	0	U	U	U	0	U	U	0	U	0	U	U	0	U
63		63	1																															- I				
64		64																																				
										-												-								•								

SMI_107657_Rev_1_2_CustCopy

SETPOINT CHART	AANGE	AECIPE 100 GAL MIX TANK - ZONE 1	100 GAL MIX TANK - ZONE 2	1000 GAL MIX TANK 1 - ZONE 1	- ZONE	1000 GAL MIX TANK 2 - ZONE 1	1000 GAL MIX TANK 2 - ZONE 2 SECIPE #7	AECIPE#7	SECIPE#9	RECIPE#10	GCIPE#11	RECIPE#12	RECIPE#13	RECIPE#14	RECIPE#15	GCIPE#16	RECIPE#17	RECIPE#18	RECIPE#19	RECIPE#20	RECIPE#21	3ECIPE#22	RECIPE #23	RECIPE #24	RECIPE #25	4ECIPE #26	RECIPE #27	RECIPE#28	RECIPE #29	RECIPE#30	RECIPE#31	RECIPE#32	RECIPE#33	RECIPE#34	100 GAL MIX TANK - COMMS TEST	1000 GAL MIX TANK 1 - COMMS TEST	1000 GAL MIX TANK 2 - COMMS TEST	SYSTEM PERFORMANCE	-AT TEST RECIPE SEPARATOR TANK FLUSH
DESCRIPTION		-	8	6	4	ıσ	9 1	. 8	6	9	=	5	13	4	15	16	17	8	6	8	72	8	23	24	55	56	27	78	59	8	<u>8</u>	8	33	8	35	98	37	88	& 4
65 EQUIPMENT SELECT	0-3	65 1	1 1	2	2	3	3 (0 0	0	0	0	0	0	0	0	0	0	0	0 I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0 0
66		66															-					-			-	-			-		-			-	·	_	Ť		
67		67	\vdash						_																														
69 100 GAL MIX TANK - AV-112 M405 CIP BYPASS VALVE ON DURATION	0-999 SEC	69 28	28	28	28	28	28 2	10 20	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28 28
70 100 GAL MIX TANK - AV-112 M405 CIP BYPASS VALVE ON DORATION 70 100 GAL MIX TANK - AV-112 M405 CIP BYPASS VALVE OFF DURATION	0-999 SEC	70 2	20	20	2	2	2 2	2 2	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	2 2
71 100 GAL MIX TANK - AV-113 TO TOTE VALVE ON DURATION	0-999 SEC 0-999 SEC	71 30	30	30	30	30	30 3	0 30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30 30
72 100 GAL MIX TANK - AV-113 TO TOTE VALVE OFF DURATION		72 30		30		30	30 3	0 30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30 30
73 100 GAL MIX TANK - AV-114 M407 CIP BYPASS VALVE ON DURATION	0-999 SEC	73 28	28	28	28	28	28 2	8 28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28 28
74 100 GAL MIX TANK - AV-114 M407 CIP BYPASS VALVE OFF DURATION	0-999 SEC		2	2			2 2	2 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2 2
75		75																																					
76		76																																					
77 1000 GAL MIX TANK 1 - AV-112 M405 CIP BYPASS VALVE ON DURATION	0-999 SEC	77 28	28	28			28 2		28			28	28	28	28	28	28		28		28	28		28	28	28	28	28	28		28		28	28	28		28	28	28 28
78 1000 GAL MIX TANK 1 - AV-112 M405 CIP BYPASS VALVE OFF DURATION	0-999 SEC	78 2	2	2	_	-	2 2		2	2		2	2	2	2	2	2	2		2	2		2	2	2	2	2	2	2	2	2		2	2	2		-	2	2 2
79 1000 GAL MIX TANK 1 - AV-113 TO TOTE VALVE ON DURATION	0-999 SEC	79 30		30			30 3	0 30	30			30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		30	30	30	30 30
80 1000 GAL MIX TANK 1 - AV-113 TO TOTE VALVE OFF DURATION		80 30		30	00	00	30 3	0 30	30	30	- 00	30	30	30	30	30	30	30	00	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	00	30	30	30	30 30
81 1000 GAL MIX TANK 1 - AV-114 M407 CIP BYPASS VALVE ON DURATION	0-999 SEC		28	28	28	28	28 2	8 28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28 28
82 1000 GAL MIX TANK 1 - AV-114 M407 CIP BYPASS VALVE OFF DURATION	0-999 SEC	82 2	2	2	2	2	2 2	2 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
84		84	+ +	-+		_		_	+	+	1	1	1			 			-			-	-	- +	-	-	-		-		-							-	+-
85 1000 GAL MIX TANK 2 - AV-112 M405 CIP BYPASS VALVE ON DURATION	0.000 SEC	85 20	28	28	28	28	28 2	10 20	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28 28
86 1000 GAL MIX TANK 2 - AV-112 M405 CIP BYPASS VALVE ON DURATION 86 1000 GAL MIX TANK 2 - AV-112 M405 CIP BYPASS VALVE OFF DURATION	0-999 SEC 0-999 SEC	86 2	20	20	20	2	2 2	2 2	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	2 2
87 1000 GAL MIX TANK 2 - AV-113 TO TOTE VALVE ON DURATION	0-999 SEC	87 30	30	30	30	30	30 3	0 30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30 30
88 1000 GAL MIX TANK 2 - AV-113 TO TOTE VALVE OF DURATION	0-999 SEC						30 3	0 30	30	30		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		30	30	30	30 30
89 1000 GAL MIX TANK 2 - AV-114 M407 CIP BYPASS VALVE ON DURATION		89 28		28	28	28	28 2	8 28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28 28
90 1000 GAL MIX TANK 2 - AV-114 M407 CIP BYPASS VALVE OFF DURATION	0-999 SEC			2			2 2	2 2	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2 2
91		91																																					
92		92																																					
93		93																																					
94		94																		1				1				1				1							
95		95																																					·
96		96	1 T	T					1 -	1		1	1	I		ı ⊤			T	Т		T			Т		T	Т	Т	Т		T							

SMI_107657_Rev_1_2_CustCopy