OPERATION CODES

OPCODE	DESCRIPTION
1	RECIPE END
2	GRAVITY DRAIN - TO DRAIN
3	GRAVITY DRAIN - TO TOTE
4	FILL SEPARATOR
5	PUMP SYSTEM - TO DRAIN
6	PUMP SYSTEM - TO TOTE
7	PRE-HEAT
8	
9	PRE-RINSE TO TOTE - ZONE 1
10	PRE-RINSE TO TOTE - ZONE 2
11	RECIRCULATED PRE-RINSE - ZONE 1
12	RECIRCULATED PRE-RINSE - ZONE 2
13	ALKALINE WASH - ZONE 1
14	ALKALINE WASH - ZONE 2
15	ACID WASH - ZONE 1
16	ACID WASH - ZONE 2
17	RINSE TO DRAIN - ZONE 1
18	RINSE TO DRAIN - ZONE 2
19	RECIRCULATED RINSE - ZONE 1
20	RECIRCULATED RINSE - ZONE 2
21	FINAL RINSE TO DRAIN - ZONE 1
22	FINAL RINSE TO DRAIN - ZONE 2
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25	PAUSE
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RECIPE SELECTIONS

RECIPE #	RECIPE NAME
1	100 GAL MIX TANK - ZONE 1
2	100 GAL MIX TANK - ZONE 2
3	1000 GAL MIX TANK 1 - ZONE 1
4	1000 GAL MIX TANK 1 - ZONE 2
5	1000 GAL MIX TANK 2 - ZONE 1
6	1000 GAL MIX TANK 2 - ZONE 2
7	RECIPE #7
8	RECIPE #8
9	RECIPE #9
10	RECIPE #10
11	RECIPE #11
12	RECIPE #12
13	RECIPE #13
14	RECIPE #14
15	RECIPE #15
16	RECIPE #16
17	RECIPE #17
18	RECIPE #18
19	RECIPE #19
20	RECIPE #20
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28	RECIPE #28
29	RECIPE #29
30	RECIPE #30
31	RECIPE #31
32	RECIPE #32
33	RECIPE #33
34	RECIPE #34
35	100 GAL MIX TANK - COMMS TEST
36	1000 GAL MIX TANK 1 - COMMS TEST
37	1000 GAL MIX TANK 2 - COMMS TEST
38	SYSTEM PERFORMANCE
39	FAT TEST RECIPE
40	SEPARATOR TANK FLUSH

RECIPE #: 1
NAME : 100 GAL MIX TANK - ZONE 1

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	0.1
2	PRE-RINSE TO TOTE - ZONE 1	9	5.0
3	PUMP SYSTEM - TO TOTE	6	0.1
4	GRAVITY DRAIN - TO TOTE	3	1.0
5	FILL SEPARATOR	4	0.1
6	ALKALINE WASH - ZONE 1	13	10.0
7	PUMP SYSTEM - TO DRAIN	5	0.1
8	GRAVITY DRAIN - TO DRAIN	2	1.0
9	FILL SEPARATOR	4	0.1
10	RINSE TO DRAIN - ZONE 1	17	5.0
11	PUMP SYSTEM - TO DRAIN	5	0.1
12	GRAVITY DRAIN - TO DRAIN	2	1.0
13	FILL SEPARATOR	4	0.1
14	ACID WASH - ZONE 1	15	10.0
15	PUMP SYSTEM - TO DRAIN	5	0.1
16	GRAVITY DRAIN - TO DRAIN	2	1.0
17	FILL SEPARATOR	4	0.1
18	RINSE TO DRAIN - ZONE 1	17	5.0
19	PUMP SYSTEM - TO DRAIN	5	0.1
20	GRAVITY DRAIN - TO DRAIN	2	1.0
21	FILL SEPARATOR	4	0.1
22	RINSE TO DRAIN - ZONE 1	17	5.0
23	PUMP SYSTEM - TO DRAIN	5	0.1
24	GRAVITY DRAIN - TO DRAIN	2	1.0
25	FILL SEPARATOR	4	0.1
26	FINAL RINSE TO DRAIN - ZONE 1	21	5.0
27	PUMP SYSTEM - TO DRAIN	5	0.1
28	GRAVITY DRAIN - TO DRAIN	2	1.0
29	RECIPE END	1	0.1
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RECIPE #: 2
NAME : 100 GAL MIX TANK - ZONE 2

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	0.1
2	PRE-RINSE TO TOTE - ZONE 2	10	5.0
3	PUMP SYSTEM - TO TOTE	6	0.1
4	GRAVITY DRAIN - TO TOTE	3	1.0
5	FILL SEPARATOR	4	0.1
6	ALKALINE WASH - ZONE 2	14	10.0
7	PUMP SYSTEM - TO DRAIN	5	0.1
8	GRAVITY DRAIN - TO DRAIN	2	1.0
9	FILL SEPARATOR	4	0.1
10	RINSE TO DRAIN - ZONE 2	18	5.0
11	PUMP SYSTEM - TO DRAIN	5	0.1
12	GRAVITY DRAIN - TO DRAIN	2	1.0
13	FILL SEPARATOR	4	0.1
14	ACID WASH - ZONE 2	16	10.0
15	PUMP SYSTEM - TO DRAIN	5	0.1
16	GRAVITY DRAIN - TO DRAIN	2	1.0
17	FILL SEPARATOR	4	0.1
18	RINSE TO DRAIN - ZONE 2	18	5.0
19	PUMP SYSTEM - TO DRAIN	5	0.1
20	GRAVITY DRAIN - TO DRAIN	2	1.0
21	FILL SEPARATOR	4	0.1
22	RINSE TO DRAIN - ZONE 2	18	5.0
23	PUMP SYSTEM - TO DRAIN	5	0.1
24	GRAVITY DRAIN - TO DRAIN	2	1.0
25	FILL SEPARATOR	4	0.1
26	FINAL RINSE TO DRAIN - ZONE 2	22	5.0
27	PUMP SYSTEM - TO DRAIN	5	0.1
28	GRAVITY DRAIN - TO DRAIN	2	1.0
29	RECIPE END	1	0.1
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RECIPE #: 3
NAME : 1000 GAL MIX TANK 1 - ZONE 1

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	0.1
2	PRE-RINSE TO TOTE - ZONE 1	9	5.0
3	PUMP SYSTEM - TO TOTE	6	0.1
4	GRAVITY DRAIN - TO TOTE	3	1.0
5	FILL SEPARATOR	4	0.1
6	ALKALINE WASH - ZONE 1	13	10.0
7	PUMP SYSTEM - TO DRAIN	5	0.1
8	GRAVITY DRAIN - TO DRAIN	2	1.0
9	FILL SEPARATOR	4	0.1
10	RINSE TO DRAIN - ZONE 1	17	5.0
11	PUMP SYSTEM - TO DRAIN	5	0.1
12	GRAVITY DRAIN - TO DRAIN	2	1.0
13	FILL SEPARATOR	4	0.1
14	ACID WASH - ZONE 1	15	10.0
15	PUMP SYSTEM - TO DRAIN	5	0.1
16	GRAVITY DRAIN - TO DRAIN	2	1.0
17	FILL SEPARATOR	4	0.1
18	RINSE TO DRAIN - ZONE 1	17	5.0
19	PUMP SYSTEM - TO DRAIN	5	0.1
20	GRAVITY DRAIN - TO DRAIN	2	1.0
21	FILL SEPARATOR	4	0.1
22	RINSE TO DRAIN - ZONE 1	17	5.0
23	PUMP SYSTEM - TO DRAIN	5	0.1
24	GRAVITY DRAIN - TO DRAIN	2	1.0
25	FILL SEPARATOR	4	0.1
26	FINAL RINSE TO DRAIN - ZONE 1	21	5.0
27	PUMP SYSTEM - TO DRAIN	5	0.1
28	GRAVITY DRAIN - TO DRAIN	2	1.0
29	RECIPE END	1	0.1
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RECIPE #: 4
NAME : **1000 GAL MIX TANK 1 - ZONE 2**

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	0.1
2	PRE-RINSE TO TOTE - ZONE 2	10	5.0
3	PUMP SYSTEM - TO TOTE	6	0.1
4	GRAVITY DRAIN - TO TOTE	3	1.0
5	FILL SEPARATOR	4	0.1
6	ALKALINE WASH - ZONE 2	14	10.0
7	PUMP SYSTEM - TO DRAIN	5	0.1
8	GRAVITY DRAIN - TO DRAIN	2	1.0
9	FILL SEPARATOR	4	0.1
10	RINSE TO DRAIN - ZONE 2	18	5.0
11	PUMP SYSTEM - TO DRAIN	5	0.1
12	GRAVITY DRAIN - TO DRAIN	2	1.0
13	FILL SEPARATOR	4	0.1
14	ACID WASH - ZONE 2	16	10.0
15	PUMP SYSTEM - TO DRAIN	5	0.1
16	GRAVITY DRAIN - TO DRAIN	2	1.0
17	FILL SEPARATOR	4	0.1
18	RINSE TO DRAIN - ZONE 2	18	5.0
19	PUMP SYSTEM - TO DRAIN	5	0.1
20	GRAVITY DRAIN - TO DRAIN	2	1.0
21	FILL SEPARATOR	4	0.1
22	RINSE TO DRAIN - ZONE 2	18	5.0
23	PUMP SYSTEM - TO DRAIN	5	0.1
24	GRAVITY DRAIN - TO DRAIN	2	1.0
25	FILL SEPARATOR	4	0.1
26	FINAL RINSE TO DRAIN - ZONE 2	22	5.0
27	PUMP SYSTEM - TO DRAIN	5	0.1
28	GRAVITY DRAIN - TO DRAIN	2	1.0
29	RECIPE END	1	0.1
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RECIPE #: 5
NAME : 1000 GAL MIX TANK 2 - ZONE 1

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	0.1
2	PRE-RINSE TO TOTE - ZONE 1	9	5.0
3	PUMP SYSTEM - TO TOTE	6	0.1
4	GRAVITY DRAIN - TO TOTE	3	1.0
5	FILL SEPARATOR	4	0.1
6	ALKALINE WASH - ZONE 1	13	10.0
7	PUMP SYSTEM - TO DRAIN	5	0.1
8	GRAVITY DRAIN - TO DRAIN	2	1.0
9	FILL SEPARATOR	4	0.1
10	RINSE TO DRAIN - ZONE 1	17	5.0
11	PUMP SYSTEM - TO DRAIN	5	0.1
12	GRAVITY DRAIN - TO DRAIN	2	1.0
13	FILL SEPARATOR	4	0.1
14	ACID WASH - ZONE 1	15	10.0
15	PUMP SYSTEM - TO DRAIN	5	0.1
16	GRAVITY DRAIN - TO DRAIN	2	1.0
17	FILL SEPARATOR	4	0.1
18	RINSE TO DRAIN - ZONE 1	17	5.0
19	PUMP SYSTEM - TO DRAIN	5	0.1
20	GRAVITY DRAIN - TO DRAIN	2	1.0
21	FILL SEPARATOR	4	0.1
22	RINSE TO DRAIN - ZONE 1	17	5.0
23	PUMP SYSTEM - TO DRAIN	5	0.1
24	GRAVITY DRAIN - TO DRAIN	2	1.0
25	FILL SEPARATOR	4	0.1
26	FINAL RINSE TO DRAIN - ZONE 1	21	5.0
27	PUMP SYSTEM - TO DRAIN	5	0.1
28	GRAVITY DRAIN - TO DRAIN	2	1.0
29	RECIPE END	1	0.1
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RECIPE #: 6
NAME : 1000 GAL MIX TANK 2 - ZONE 2

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	0.1
2	PRE-RINSE TO TOTE - ZONE 2	10	5.0
3	PUMP SYSTEM - TO TOTE	6	0.1
4	GRAVITY DRAIN - TO TOTE	3	1.0
5	FILL SEPARATOR	4	0.1
6	ALKALINE WASH - ZONE 2	14	10.0
7	PUMP SYSTEM - TO DRAIN	5	0.1
8	GRAVITY DRAIN - TO DRAIN	2	1.0
9	FILL SEPARATOR	4	0.1
10	RINSE TO DRAIN - ZONE 2	18	5.0
11	PUMP SYSTEM - TO DRAIN	5	0.1
12	GRAVITY DRAIN - TO DRAIN	2	1.0
13	FILL SEPARATOR	4	0.1
14	ACID WASH - ZONE 2	16	10.0
15	PUMP SYSTEM - TO DRAIN	5	0.1
16	GRAVITY DRAIN - TO DRAIN	2	1.0
17	FILL SEPARATOR	4	0.1
18	RINSE TO DRAIN - ZONE 2	18	5.0
19	PUMP SYSTEM - TO DRAIN	5	0.1
20	GRAVITY DRAIN - TO DRAIN	2	1.0
21	FILL SEPARATOR	4	0.1
22	RINSE TO DRAIN - ZONE 2	18	5.0
23	PUMP SYSTEM - TO DRAIN	5	0.1
24	GRAVITY DRAIN - TO DRAIN	2	1.0
25	FILL SEPARATOR	4	0.1
26	FINAL RINSE TO DRAIN - ZONE 2	22	5.0
27	PUMP SYSTEM - TO DRAIN	5	0.1
28	GRAVITY DRAIN - TO DRAIN	2	1.0
29	RECIPE END	1	0.1
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RECIPE #: 7
NAME : RECIPE #7

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RECIPE #: 8
NAME : RECIPE #8

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 9
NAME : RECIPE #9

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 10
NAME : RECIPE #10

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 11
NAME : RECIPE #11

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RECIPE #: 12
NAME : RECIPE #12

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 13
NAME : RECIPE #13

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 14
NAME : RECIPE #14

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #:   15
NAME :   RECIPE #15

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 16
NAME : RECIPE #16

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 17
NAME : RECIPE #17

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 18
NAME : RECIPE #18

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 19
NAME : RECIPE #19

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 20
NAME : RECIPE #20

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 21
NAME : RECIPE #21

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 22
NAME : RECIPE #22

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 23
NAME : RECIPE #23

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 24
NAME : RECIPE #24

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 25
NAME : RECIPE #25

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 26
NAME : RECIPE #26

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 27
NAME : RECIPE #27

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 28
NAME : RECIPE #28

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 29
NAME : RECIPE #29

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 30
NAME : RECIPE #30

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 31
NAME : RECIPE #31

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 32
NAME : RECIPE #32

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 33
NAME : RECIPE #33

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 34
NAME : RECIPE #34

STEP	OPERATION	OPCODE	TIME (MIN)
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RECIPE #: 35
NAME : 100 GAL MIX TANK - COMMS TEST

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	0.1
2	RECIRCULATED PRE-RINSE - ZONE 1	11	0.5
3	RECIRCULATED PRE-RINSE - ZONE 2	12	1.0
4	GRAVITY DRAIN - TO DRAIN	2	0.5
5	RECIPE END	1	0.1
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RECIPE #: 36
NAME : 1000 GAL MIX TANK 1 - COMMS TEST

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	0.1
2	RECIRCULATED PRE-RINSE - ZONE 1	11	0.5
3	RECIRCULATED PRE-RINSE - ZONE 2	12	1.0
4	GRAVITY DRAIN - TO DRAIN	2	0.5
5	RECIPE END	1	0.1
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RECIPE #: 37
NAME : 1000 GAL MIX TANK 2 - COMMS TEST

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	0.1
2	RECIRCULATED PRE-RINSE - ZONE 1	11	0.5
3	RECIRCULATED PRE-RINSE - ZONE 2	12	1.0
4	GRAVITY DRAIN - TO DRAIN	2	0.5
5	RECIPE END	1	0.1
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RECIPE #: 38
NAME : SYSTEM PERFORMANCE

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	0.1
2	RECIRCULATED PRE-RINSE - ZONE 1	11	1.0
3	PRE-HEAT	7	1.0
4	PUMP SYSTEM - TO DRAIN	5	0.1
5	GRAVITY DRAIN - TO DRAIN	2	1.0
6	RECIPE END	1	0.1
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RECIPE #: 39
NAME : FAT TEST RECIPE

STEP	OPERATION	OPCODE	TIME (MIN)
1	FILL SEPARATOR	4	1.0
2	PRE-RINSE TO TOTE - ZONE 1	9	1.0
3	PRE-RINSE TO TOTE - ZONE 2	10	1.0
4	RECIRCULATED PRE-RINSE - ZONE 1	11	1.0
5	RECIRCULATED PRE-RINSE - ZONE 2	12	1.0
6	RINSE TO DRAIN - ZONE 1	17	1.0
7	RINSE TO DRAIN - ZONE 2	18	1.0
8	RECIRCULATED RINSE - ZONE 1	19	1.0
9	RECIRCULATED RINSE - ZONE 2	20	1.0
10	FINAL RINSE TO DRAIN - ZONE 1	21	1.0
11	FINAL RINSE TO DRAIN - ZONE 2	22	1.0
12	PUMP SYSTEM - TO TOTE	6	1.0
13	GRAVITY DRAIN - TO TOTE	3	1.0
14	PAUSE	25	1.0
15	FILL SEPARATOR	4	1.0
16	PRE-HEAT	7	1.0
17	ALKALINE WASH - ZONE 1	13	1.0
18	ALKALINE WASH - ZONE 2	14	1.0
19	ACID WASH - ZONE 1	15	1.0
20	ACID WASH - ZONE 2	16	1.0
21	PUMP SYSTEM - TO DRAIN	5	1.0
22	GRAVITY DRAIN - TO DRAIN	2	1.0
23	RECIPE END	1	0.1
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RECIPE #: 40
NAME : SEPARATOR TANK FLUSH

STEP	OPERATION	OPCODE	TIME (MIN)
1	GRAVITY DRAIN - TO DRAIN	2	1.0
2	FILL SEPARATOR	4	0.1
3	RECIRCULATED PRE-RINSE - ZONE 1	11	1.0
4	PUMP SYSTEM - TO DRAIN	5	0.1
5	GRAVITY DRAIN - TO DRAIN	2	1.0
6	RECIPE END	1	0.1
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