

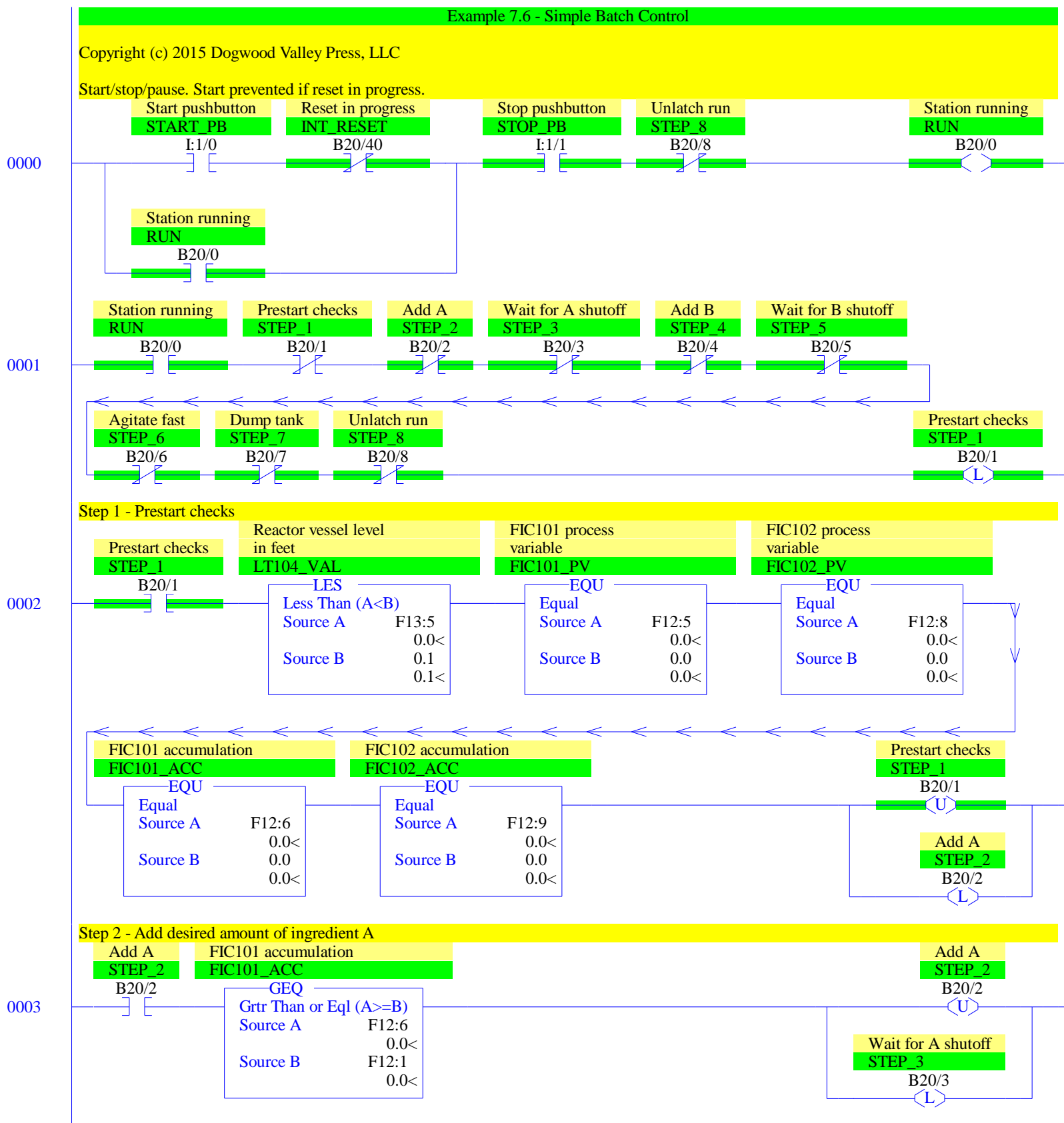
PID Configuration

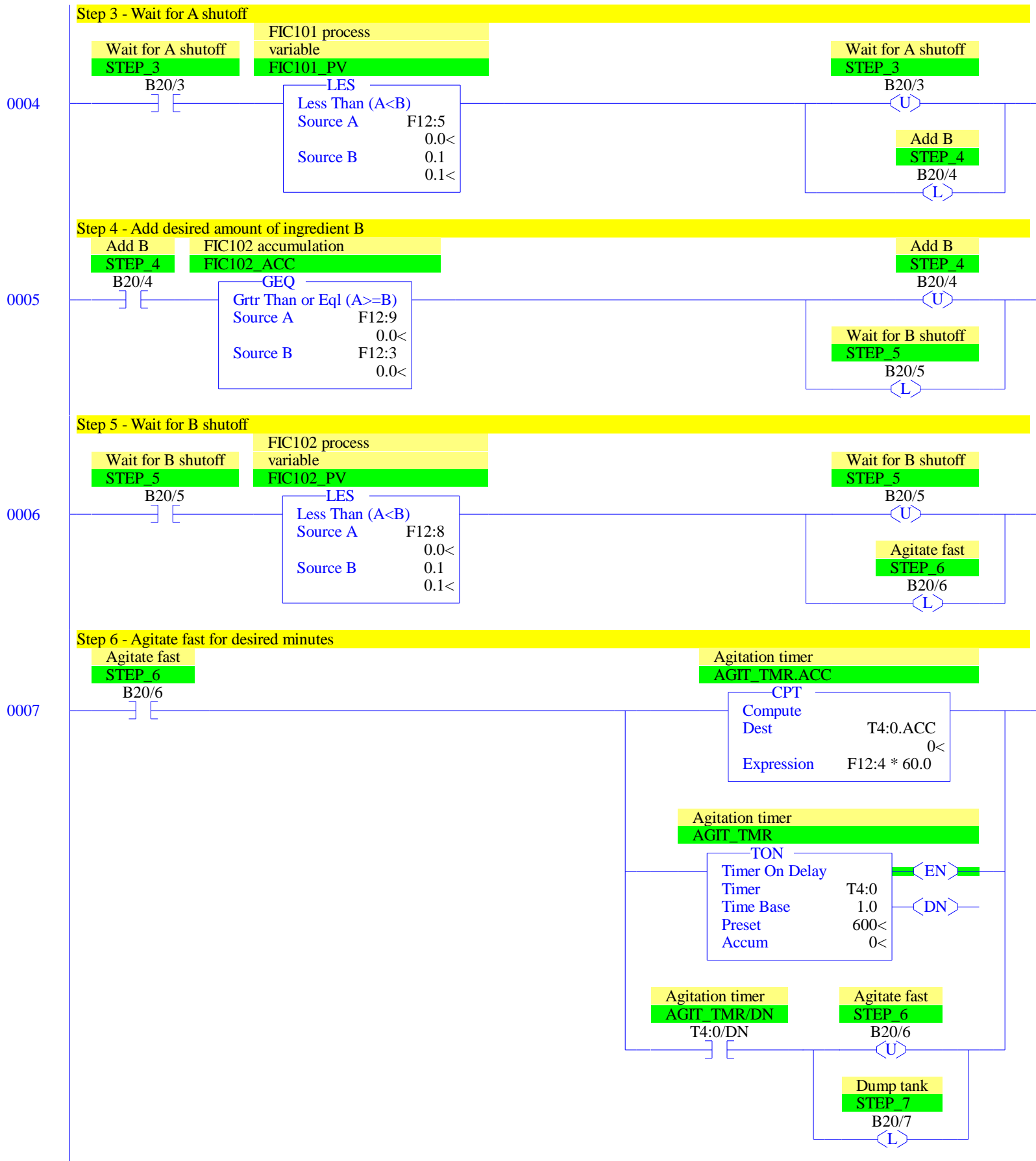
PID - Rung #2:22 - N14:0

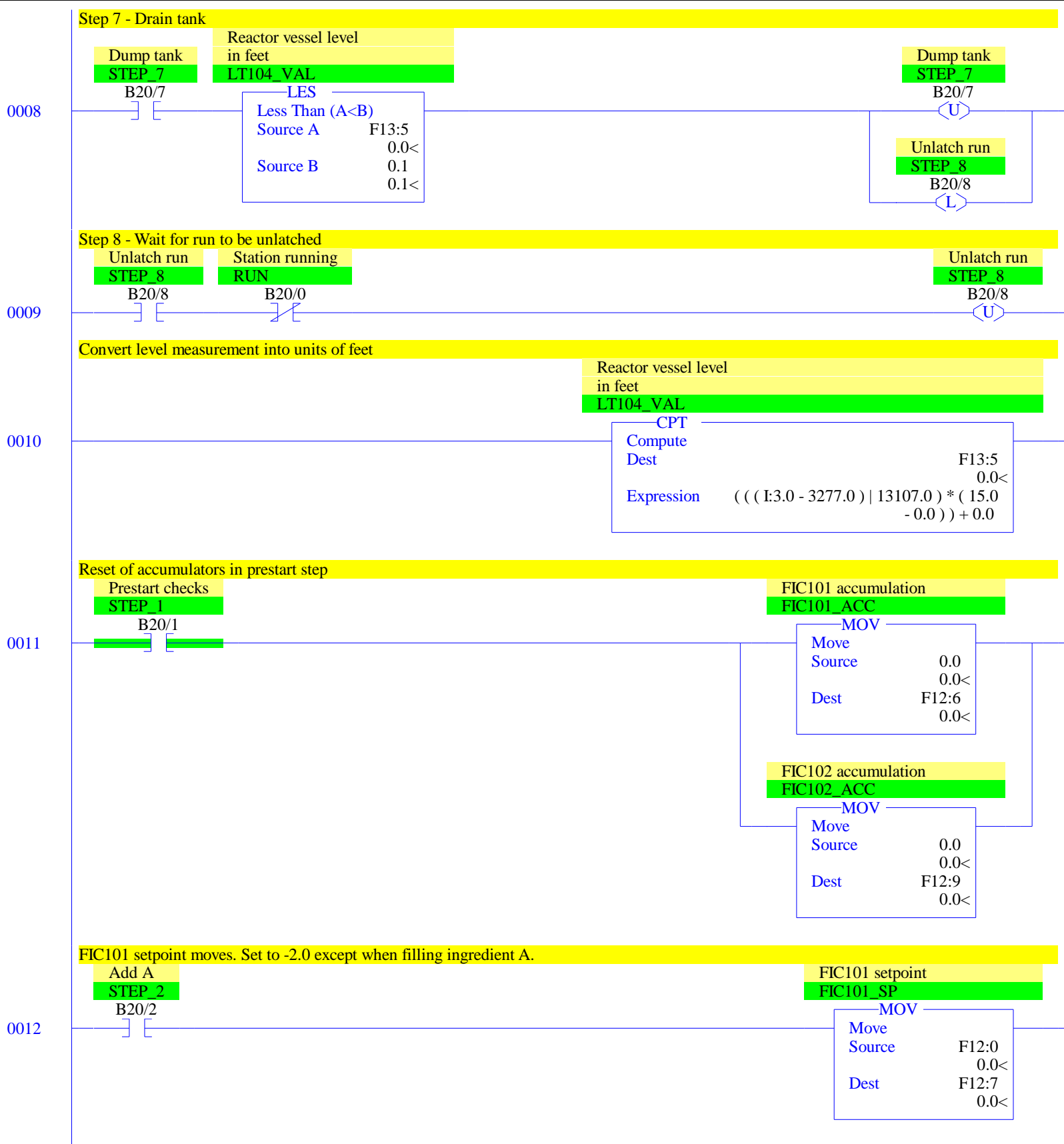
Controller Gain, Kc: 0.40	Setpoint: 40
Reset Term, Ti: 0.10	Maximum Setpoint Limit: 100
Rate Term, Td: 0.00	Minimum Setpoint Limit: 0
Loop Update Time: 0.25	Control Variable Percent (CV%): 0
Control Mode: E = SP - PV	Output Max CV(%): 100
PID Control: Auto	Output Min CV(%): 0
Time Mode: Timed	Derivative Action(DA): No
Output Limiting: Yes	Deadband: 0
Reset and Gain: Yes	

PID - Rung #2:25 - N14:30

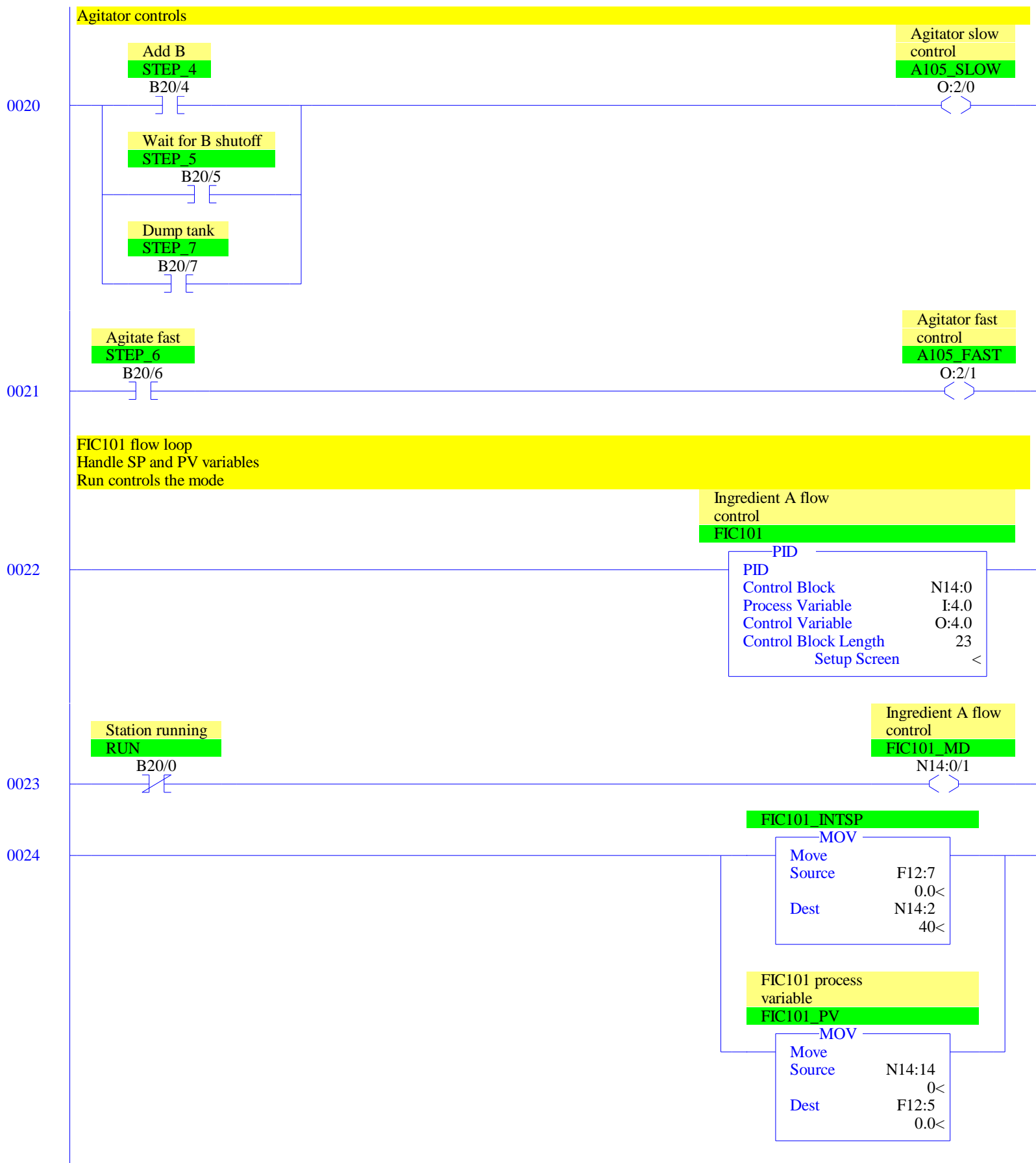
Controller Gain, Kc: 0.4	Setpoint: 40
Reset Term, Ti: 0.1	Maximum Setpoint Limit: 100
Rate Term, Td: 0.00	Minimum Setpoint Limit: 0
Loop Update Time: 0.25	Control Variable Percent (CV%): 0
Control Mode: E = SP - PV	Output Max CV(%): 100
PID Control: Auto	Output Min CV(%): 0
Time Mode: STI	Derivative Action(DA): No
Output Limiting: Yes	Deadband: 0
Reset and Gain: No	

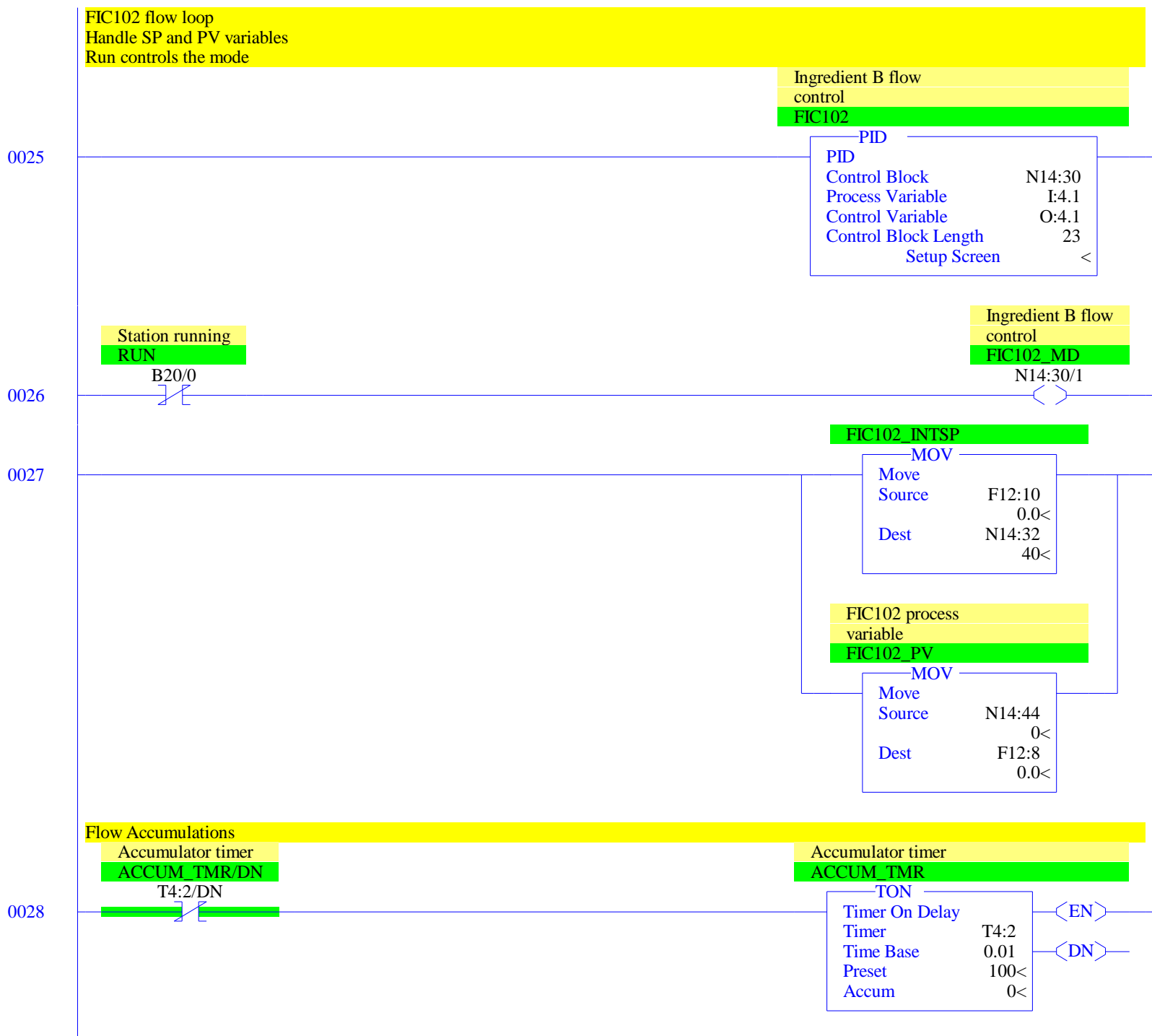


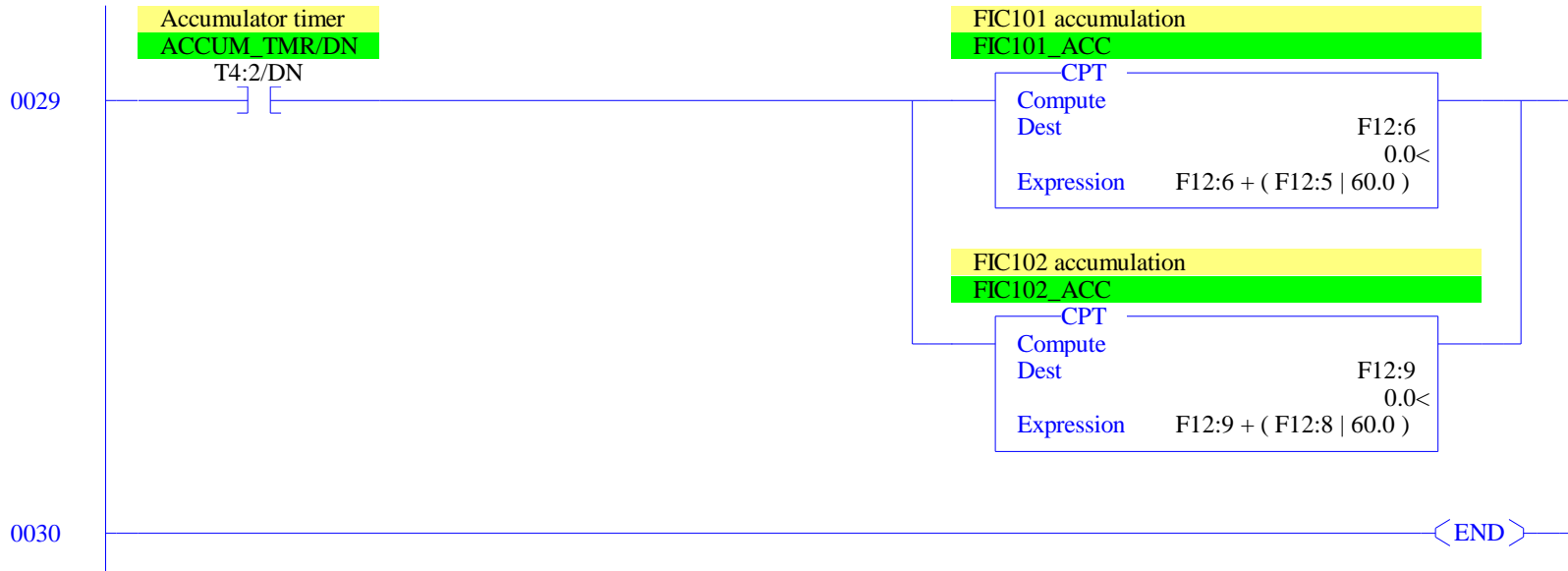












RSLogix 500 Cross Reference Report - Sorted by Address

O:2/0	- {A105_SLOW} Agitator slow control OTE - File #2 - 20
O:2/1	- {A105_FAST} Agitator fast control OTE - File #2 - 21
O:2/2	- {XV101_OPEN} XV101 open control OTE - File #2 - 16
O:2/3	- {XV102_OPEN} XV102 open control OTE - File #2 - 17
O:2/4	- {XV103_OPEN} XV102 open control OTE - File #2 - 18
O:2/5	- {P103_RUN} Outlet pump motor control OTE - File #2 - 19
O:4.0	- {FY101} Ingred A flow valve control PID - File #2 - 22
O:4.1	- {FY102} Ingred B flow valve control PID - File #2 - 25
I:1/0	- {START_PB} Start pushbutton XIC - File #2 - 0
I:1/1	- {STOP_PB} Stop pushbutton XIC - File #2 - 0
I:3.0	- {LT104_MEAS} Tank level measurement CPT - File #2 - 10
I:4.0	- {FT101} Ingred A flow measurement PID - File #2 - 22
I:4.1	- {FT102} Ingred B flow measurement PID - File #2 - 25
T4:0	- {AGIT_TMR} Agitation timer TON - File #2 - 7
T4:0/DN	- XIC - File #2 - 7
T4:0.ACC	- CPT - File #2 - 7
T4:2	- {ACCUM_TMR} Accumulator timer TON - File #2 - 28
T4:2/DN	- XIC - File #2 - 29 XIO - File #2 - 28
F12:0	- {INGA_DES_FLW} Ingredient A desired flow rate MOV - File #2 - 12
F12:1	- {INGA_DES_AMT} Ingredient A desired amount GEQ - File #2 - 3
F12:2	- {INGB_DES_FLW} Ingredient B desired flow rate MOV - File #2 - 14
F12:3	- {INGB_DES_AMT} Ingredient B desired amount GEQ - File #2 - 5
F12:4	- {AGIT_TIME} Agitation time in minutes CPT - File #2 - 7
F12:5	- {FIC101_PV} FIC101 process variable MOV - File #2 - 24 CPT - File #2 - 29 EQU - File #2 - 2 LES - File #2 - 4
F12:6	- {FIC101_ACC} FIC101 accumulation MOV - File #2 - 11 CPT - File #2 - 29 EQU - File #2 - 2 GEQ - File #2 - 3
F12:7	- {FIC101_SP} FIC101 setpoint MOV - File #2 - 12, 13, 24
F12:8	- {FIC102_PV} FIC102 process variable MOV - File #2 - 27 CPT - File #2 - 29 EQU - File #2 - 2 LES - File #2 - 6
F12:9	- {FIC102_ACC} FIC102 accumulation MOV - File #2 - 11 CPT - File #2 - 29 EQU - File #2 - 2 GEQ - File #2 - 5

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F12:10      - {FIC102_SP} FIC102 setpoint
             MOV - File #2 - 14, 15, 27
F13:5       - {LT104_VAL} Reactor vessel level in feet
             CPT - File #2 - 10
             LES - File #2 - 2, 8
N14:0       - {FIC101} Ingredient A flow control
             PID - File #2 - 22
FILE N14:0 LEN:23 - PID - File #2 - 22
N14:0/1     - {FIC101_MD}
             OTE - File #2 - 23
FILE N14:0/1 LEN:23 - PID - File #2 - 22
N14:2       - {FIC101_INTSP}
             MOV - File #2 - 24
FILE N14:2 LEN:21 - PID - File #2 - 22
N14:14      - {FIC101_INTPV}
             MOV - File #2 - 24
FILE N14:14 LEN:9 - PID - File #2 - 22
N14:30      - {FIC102} Ingredient B flow control
             PID - File #2 - 25
FILE N14:30 LEN:23 - PID - File #2 - 25
N14:30/1    - {FIC102_MD}
             OTE - File #2 - 26
FILE N14:30/1 LEN:23 - PID - File #2 - 25
N14:32      - {FIC102_INTSP}
             MOV - File #2 - 27
FILE N14:32 LEN:21 - PID - File #2 - 25
N14:44      - {FIC102_INTPV}
             MOV - File #2 - 27
FILE N14:44 LEN:9 - PID - File #2 - 25
B20/0       - {RUN} Station running
             OTE - File #2 - 0
             XIC - File #2 - 0, 1, 16, 17, 18, 19
             XIO - File #2 - 9, 23, 26
B20/1       - {STEP_1} Prestart checks
             OTL - File #2 - 1
             OTU - File #2 - 2
             XIC - File #2 - 2, 11
             XIO - File #2 - 1
B20/2       - {STEP_2} Add A
             OTL - File #2 - 2
             OTU - File #2 - 3
             XIC - File #2 - 3, 12, 16
             XIO - File #2 - 1, 13
B20/3       - {STEP_3} Wait for A shutoff
             OTL - File #2 - 3
             OTU - File #2 - 4
             XIC - File #2 - 4
             XIO - File #2 - 1
B20/4       - {STEP_4} Add B
             OTL - File #2 - 4
             OTU - File #2 - 5
             XIC - File #2 - 5, 14, 17, 20
             XIO - File #2 - 1, 15
B20/5       - {STEP_5} Wait for B shutoff
             OTL - File #2 - 5
             OTU - File #2 - 6
             XIC - File #2 - 6, 20
             XIO - File #2 - 1
B20/6       - {STEP_6} Agitate fast
             OTL - File #2 - 6
             OTU - File #2 - 7
             XIC - File #2 - 7, 21
             XIO - File #2 - 1
B20/7       - {STEP_7} Dump tank
             OTL - File #2 - 7
             OTU - File #2 - 8

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	XIC - File #2 - 8, 18, 19, 20
	XIO - File #2 - 1
B20/8	- {STEP_8} Unlatch run
	OTL - File #2 - 8
	OTU - File #2 - 9
	XIC - File #2 - 9
	XIO - File #2 - 0, 1
B20/40	- {INT_RESET} Reset in progress
	XIO - File #2 - 0