

General

Vendor:	Allen-Bradley	Mode:	Offline
Revision:	16.2	Key Switch Position:	Offline
Chassis Type:	1756-A7 7-Slot ControlLogix Chassis	Created:	9/12/2008 2:05:05 PM
Slot:	0	Edited:	1/20/2009 1:55:55 PM

Serial Port

Mode:	System	Control Line:	No Handshake
Baud Rate:	19200	RTS Send Delay:	0 (x20 ms)
Date Bits:	8	RTS Off Delay:	0 (x20 ms)
Parity:	None	DCD Wait Delay:	0 (x1 sec)
Stop Bits:	1		

System Protocol - DF1 Master

Station Address:	0	Polling Mode:	Message Based (slave can initiate messages)
Transmit Retries:	3	Error Detection:	BCC
ACK Timeout:	50 (x20 ms)	Enable Duplicate Detection:	Yes
Relay Message Wait:	5 (x20 ms)		

System Protocol - DF1 Point to Point (Current)

Station Address:	0	Embedded Responses:	Autodetect
NAK Receive Limit:	3	Error Detection:	BCC
ENQ Transmit Limit:	3	Enable Duplicate Detection:	Yes
ACK Timeout:	50 (x20 ms)		

System Protocol - DF1 Radio Modem

Station Address:	0	Error Detection:	BCC
Store and Forward:	No		

System Protocol - DF1 Slave

Station Address:	0	EOT Suppression:	No
Transmit Retries:	3	Error Detection:	BCC
Slave Poll Timeout:	3000 (x20 ms)	Enable Duplicate Detection:	Yes

System Protocol - DH485

Station Address:	0	Token Hold Factor:	1
Max Station Address:	31	Error Detection:	CRC

User Protocol - ASCII

Read/Write Buffer Size:	82 bytes	Append Character 2:	'\$I'
Termination Character 1:	'\$r'	XON/XOFF:	No
Termination Character 2:	'\$FF'	Echo Mode:	No
Append Character 1:	'\$r'	Delete Mode:	Ignore

Date/Time

Date and Time:	<offline>		
Time Zone:	<offline>		
Daylight Saving (+00:00):	<offline>		
CST Master:	No		
Is Master:	<offline>	Duplicate Master Detected:	<offline>
Synchronized with Master:	<offline>	Timer Hardware Faulted:	<offline>

Advanced

Controller Fault Handler:	<none>	Security:	No Protection
Power-Up Handler:	<none>	Match Project To Controller:	No
System Overhead Time Slice:	20 %	Serial Number:	0
During unused System Overhead Time Slice:	Run Continuous Task		

SFC Execution

Execution Control:	Execute current active steps only	Last Scan of Active Step:	Don't scan
Restart Position:	Restart at most recently executed step		

Redundancy

Redundancy Enabled:	No
---------------------	----

Nonvolatile Memory

<offline>

Memory (Estimate)

Memory Option:	1756-L55 M12		
Estimated I/O Memory			
Total Memory:	229,376 bytes	Max Used:	17,508 bytes
Free Memory:	211,868 bytes	Largest Block Free:	211,868 bytes
Used Memory:	17,508 bytes		
Estimated Data and Logic Memory			
Total Memory:	769,200 bytes	Max Used:	31,880 bytes
Free Memory:	737,320 bytes	Largest Block Free:	737,320 bytes
Used Memory:	31,880 bytes		
Memory Option:	1756-L55 M22		
Estimated I/O Memory			
Total Memory:	229,376 bytes	Max Used:	17,508 bytes
Free Memory:	211,868 bytes	Largest Block Free:	211,868 bytes
Used Memory:	17,508 bytes		
Estimated Data and Logic Memory			
Total Memory:	769,200 bytes	Max Used:	31,880 bytes
Free Memory:	737,320 bytes	Largest Block Free:	737,320 bytes
Used Memory:	31,880 bytes		
Memory Option:	1756-L55 M13		
Estimated I/O Memory			
Total Memory:	229,376 bytes	Max Used:	17,508 bytes
Free Memory:	211,868 bytes	Largest Block Free:	211,868 bytes
Used Memory:	17,508 bytes		
Estimated Data and Logic Memory			
Total Memory:	1,605,632 bytes	Max Used:	31,880 bytes
Free Memory:	1,573,752 bytes	Largest Block Free:	737,320 bytes
Used Memory:	31,880 bytes		
Memory Option:	1756-L55 M23		
Estimated I/O Memory			
Total Memory:	229,376 bytes	Max Used:	17,508 bytes
Free Memory:	211,868 bytes	Largest Block Free:	211,868 bytes
Used Memory:	17,508 bytes		
Estimated Data and Logic Memory			
Total Memory:	1,605,632 bytes	Max Used:	31,880 bytes
Free Memory:	1,573,752 bytes	Largest Block Free:	737,320 bytes
Used Memory:	31,880 bytes		
Memory Option:	1756-L55 M14		
Estimated I/O Memory			
Total Memory:	229,376 bytes	Max Used:	17,508 bytes
Free Memory:	211,868 bytes	Largest Block Free:	211,868 bytes
Used Memory:	17,508 bytes		
Estimated Data and Logic Memory			
Total Memory:	3,702,784 bytes	Max Used:	31,880 bytes
Free Memory:	3,670,904 bytes	Largest Block Free:	737,320 bytes
Used Memory:	31,880 bytes		
Memory Option:	1756-L55 M24		
Estimated I/O Memory			
Total Memory:	229,376 bytes	Max Used:	17,508 bytes
Free Memory:	211,868 bytes	Largest Block Free:	211,868 bytes
Used Memory:	17,508 bytes		
Estimated Data and Logic Memory			
Total Memory:	3,702,784 bytes	Max Used:	31,880 bytes
Free Memory:	3,670,904 bytes	Largest Block Free:	737,320 bytes
Used Memory:	31,880 bytes		
Memory Option:	1756-L55 M16		
Estimated I/O Memory			
Total Memory:	229,376 bytes	Max Used:	17,508 bytes
Free Memory:	211,868 bytes	Largest Block Free:	211,868 bytes
Used Memory:	17,508 bytes		
Estimated Data and Logic Memory			

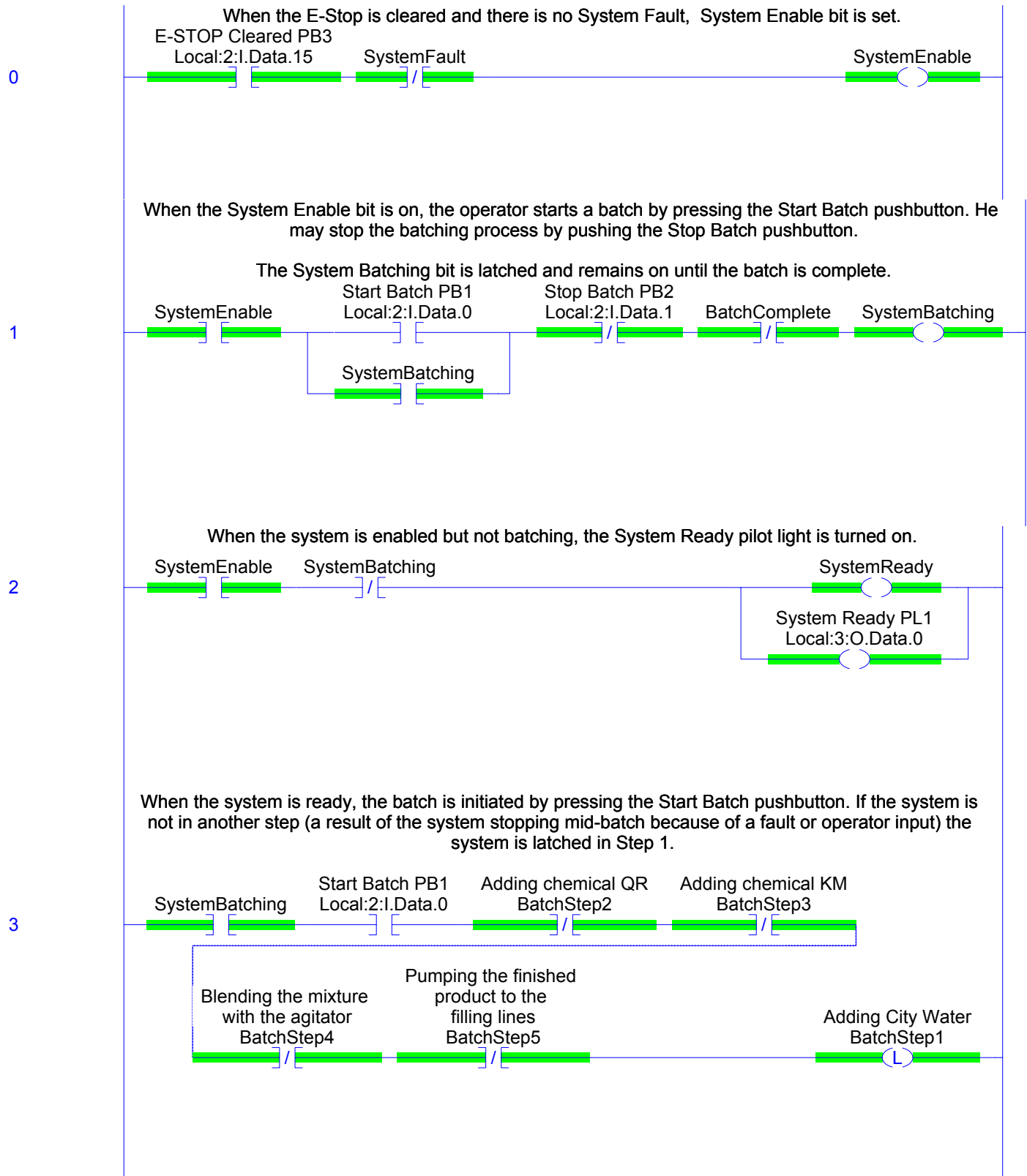
Total Memory:	3,702,784 bytes	Max Used:	31,880 bytes
Free Memory:	3,670,904 bytes	Largest Block Free:	737,320 bytes
Used Memory:	31,880 bytes		
Estimated Logic Memory			
Total Memory:	4,194,304 bytes	Max Used:	0 bytes
Free Memory:	4,194,304 bytes	Largest Block Free:	0 bytes
Used Memory:	0 bytes		

Name	Value	Data Type	Scope
AgitatorRunTime		TIMER	MainProgram
<i>AgitatorRunTime - MainProgram/MainRoutine - *12(TON)</i>			
<i>AgitatorRunTime.DN - MainProgram/MainRoutine - 14(XIC)</i>			
<i>AgitatorRunTime.EN - MainProgram/MainRoutine - 13(XIC)</i>			
BatchComplete	0	BOOL	MainProgram
<i>BatchComplete - MainProgram/MainRoutine - *17(OTE), 1(XIO)</i>			
BatchStep1	1	BOOL	MainProgram
<i>Adding City Water</i>			
<i>BatchStep1 - MainProgram/MainRoutine - *3(OTL), *5(OTU), 4(XIC), 5(XIC)</i>			
BatchStep2	0	BOOL	MainProgram
<i>Adding chemical QR</i>			
<i>BatchStep2 - MainProgram/MainRoutine - *5(OTL), *8(OTU), 3(XIO), 6(XIC)</i>			
BatchStep3	0	BOOL	MainProgram
<i>Adding chemical KM</i>			
<i>BatchStep3 - MainProgram/MainRoutine - *11(OTU), *17(OTU), *8(OTL), 11(XIC), 3(XIO), 9(XIC)</i>			
BatchStep4	0	BOOL	MainProgram
<i>Blending the mixture with the agitator</i>			
<i>BatchStep4 - MainProgram/MainRoutine - *11(OTL), *14(OTU), 12(XIC), 3(XIO)</i>			
BatchStep5	0	BOOL	MainProgram
<i>Pumping the finished product to the filling lines</i>			
<i>BatchStep5 - MainProgram/MainRoutine - *14(OTL), 15(XIC), 17(XIC), 3(XIO)</i>			
 Local:1:I		AB:1756_IF4_Float:I:0	BATCHING
<i>Local:1:I.Ch0Data - MainProgram/MainRoutine - 11(GEQ), 4(LEQ), 5(GEQ), 6(LEQ), 8(GEQ), 9(LEQ)</i>			
<i>Local:1:I.Ch1Data - MainProgram/MainRoutine - 15(GEQ), 17(LEQ), 22(GRT)</i>			
 Local:2:I		AB:1756_DI:I:0	BATCHING
<i>Local:2:I.Data.0 - MainProgram/MainRoutine - 1(XIC), 3(XIC)</i>			
<i>Local:2:I.Data.1 - MainProgram/MainRoutine - 1(XIO), 23(XIO)</i>			
<i>Local:2:I.Data.15 - MainProgram/MainRoutine - 0(XIC)</i>			
<i>Local:2:I.Data.2 - MainProgram/MainRoutine - 18(XIO)</i>			
<i>Local:2:I.Data.3 - MainProgram/MainRoutine - 18(XIO)</i>			
<i>Local:2:I.Data.4 - MainProgram/MainRoutine - 19(XIO), 7(XIO)</i>			
<i>Local:2:I.Data.5 - MainProgram/MainRoutine - 19(XIO), 7(XIC)</i>			
<i>Local:2:I.Data.6 - MainProgram/MainRoutine - 10(XIO), 20(XIO)</i>			
<i>Local:2:I.Data.7 - MainProgram/MainRoutine - 10(XIC), 20(XIO)</i>			
<i>Local:2:I.Data.8 - MainProgram/MainRoutine - 16(XIO), 21(XIO)</i>			
<i>Local:2:I.Data.9 - MainProgram/MainRoutine - 16(XIC), 21(XIO)</i>			
 Local:3:O		AB:1756_DO:O:0	BATCHING
<i>Local:3:O.Data.0 - MainProgram/MainRoutine - *2(OTE)</i>			
<i>Local:3:O.Data.1 - MainProgram/MainRoutine - *4(OTE), 18(XIC), 18(XIO)</i>			
<i>Local:3:O.Data.10 - MainProgram/MainRoutine - *13(OTE)</i>			
<i>Local:3:O.Data.11 - MainProgram/MainRoutine - *16(OTE)</i>			
<i>Local:3:O.Data.12 - MainProgram/MainRoutine - *16(OTE)</i>			
<i>Local:3:O.Data.13 - MainProgram/MainRoutine - *15(OTE), 16(XIC), 21(XIC), 21(XIO)</i>			
<i>Local:3:O.Data.15 - MainProgram/MainRoutine - *23(OTE), 23(XIC)</i>			
<i>Local:3:O.Data.2 - MainProgram/MainRoutine - *4(OTE)</i>			
<i>Local:3:O.Data.3 - MainProgram/MainRoutine - *6(OTE), 19(XIC), 19(XIO), 7(XIC)</i>			
<i>Local:3:O.Data.4 - MainProgram/MainRoutine - *7(OTE)</i>			
<i>Local:3:O.Data.5 - MainProgram/MainRoutine - *7(OTE)</i>			
<i>Local:3:O.Data.6 - MainProgram/MainRoutine - *9(OTE), 10(XIC), 20(XIC), 20(XIO)</i>			
<i>Local:3:O.Data.7 - MainProgram/MainRoutine - *10(OTE)</i>			
<i>Local:3:O.Data.8 - MainProgram/MainRoutine - *10(OTE)</i>			

Local:3:O (Continued)

*Local:3:O.Data.9 - MainProgram/MainRoutine - *13(OTE)*

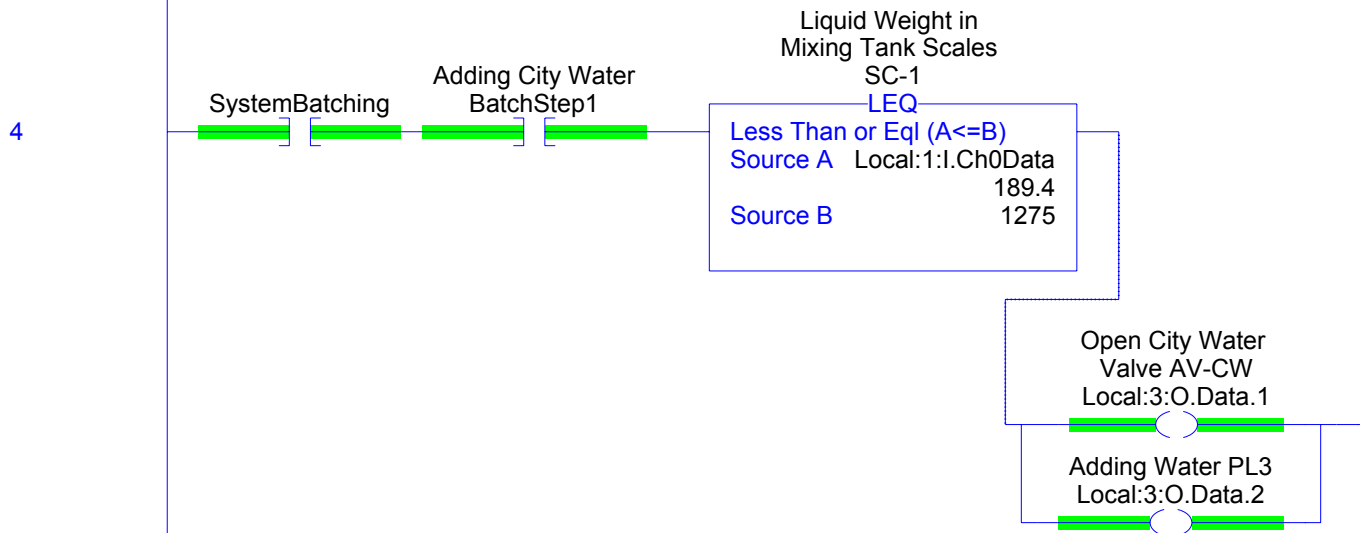
SystemBatching	1	BOOL	MainProgram
<i>SystemBatching - MainProgram/MainRoutine - *1(OTE), 1(XIC), 12(XIC), 15(XIC), 2(XIO), 3(XIC), 4(XIC), 6(XIC), 9(XIC)</i>			
SystemEnable	1	BOOL	MainProgram
<i>SystemEnable - MainProgram/MainRoutine - *0(OTE), 1(XIC), 2(XIC)</i>			
SystemFault	0	BOOL	MainProgram
<i>SystemFault - MainProgram/MainRoutine - *22(OTE), 0(XIO), 23(XIC)</i>			
SystemReady	1	BOOL	MainProgram
<i>SystemReady - MainProgram/MainRoutine - *2(OTE)</i>			
ValveAVCWFault		TIMER	MainProgram
<i>ValveAVCWFault - MainProgram/MainRoutine - *18(TON)</i>			
<i>ValveAVCWFault.DN - MainProgram/MainRoutine - 22(XIC)</i>			
ValveAVKMFault		TIMER	MainProgram
<i>ValveAVKMFault - MainProgram/MainRoutine - *20(TON)</i>			
<i>ValveAVKMFault.DN - MainProgram/MainRoutine - 22(XIC)</i>			
ValveAVMTFault		TIMER	MainProgram
<i>ValveAVMTFault - MainProgram/MainRoutine - *21(TON)</i>			
<i>ValveAVMTFault.DN - MainProgram/MainRoutine - 22(XIC)</i>			
ValveAVQRFault		TIMER	MainProgram
<i>ValveAVQRFault - MainProgram/MainRoutine - *19(TON)</i>			
<i>ValveAVQRFault.DN - MainProgram/MainRoutine - 22(XIC)</i>			



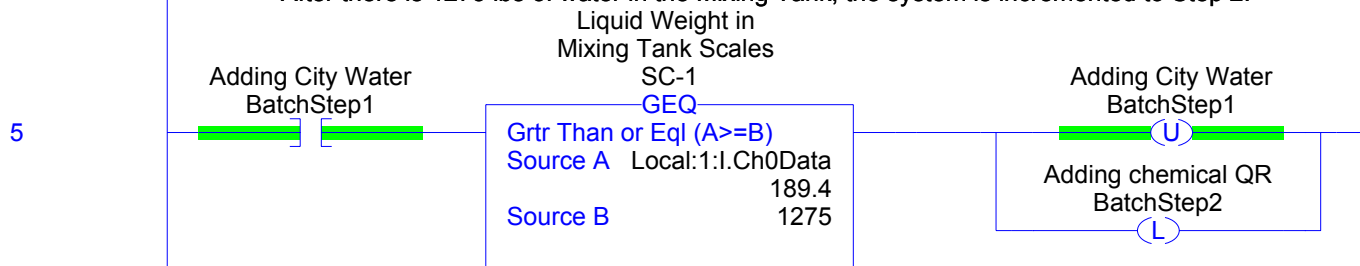
The System Batching bit is used in all rungs with an output. It turns off if there is an E-Stop, fault or the operator stopped the batch.

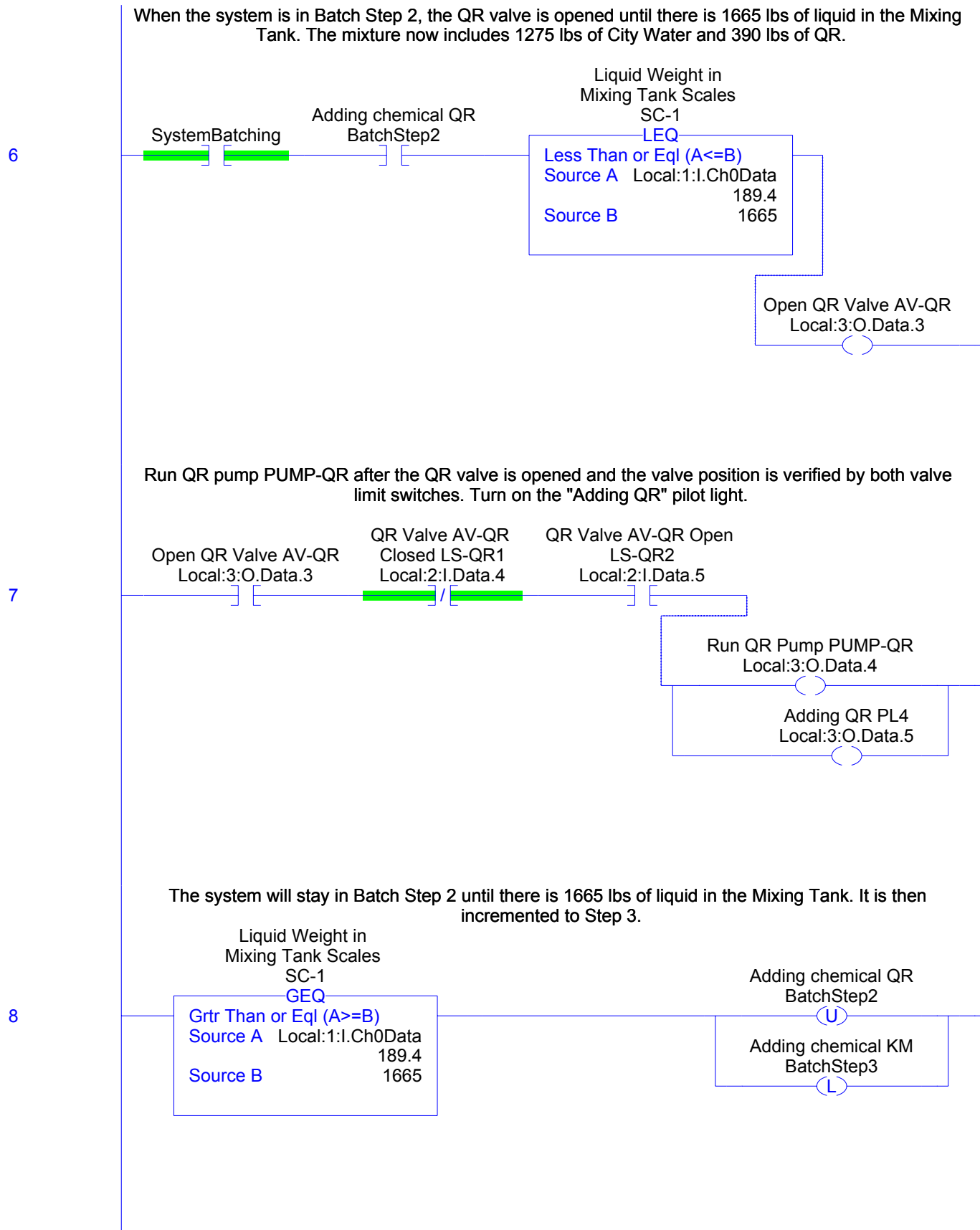
When the system is in Batch Step 1, the City Water valve opens until there is 1275 lbs of water in the Mixing Tank.

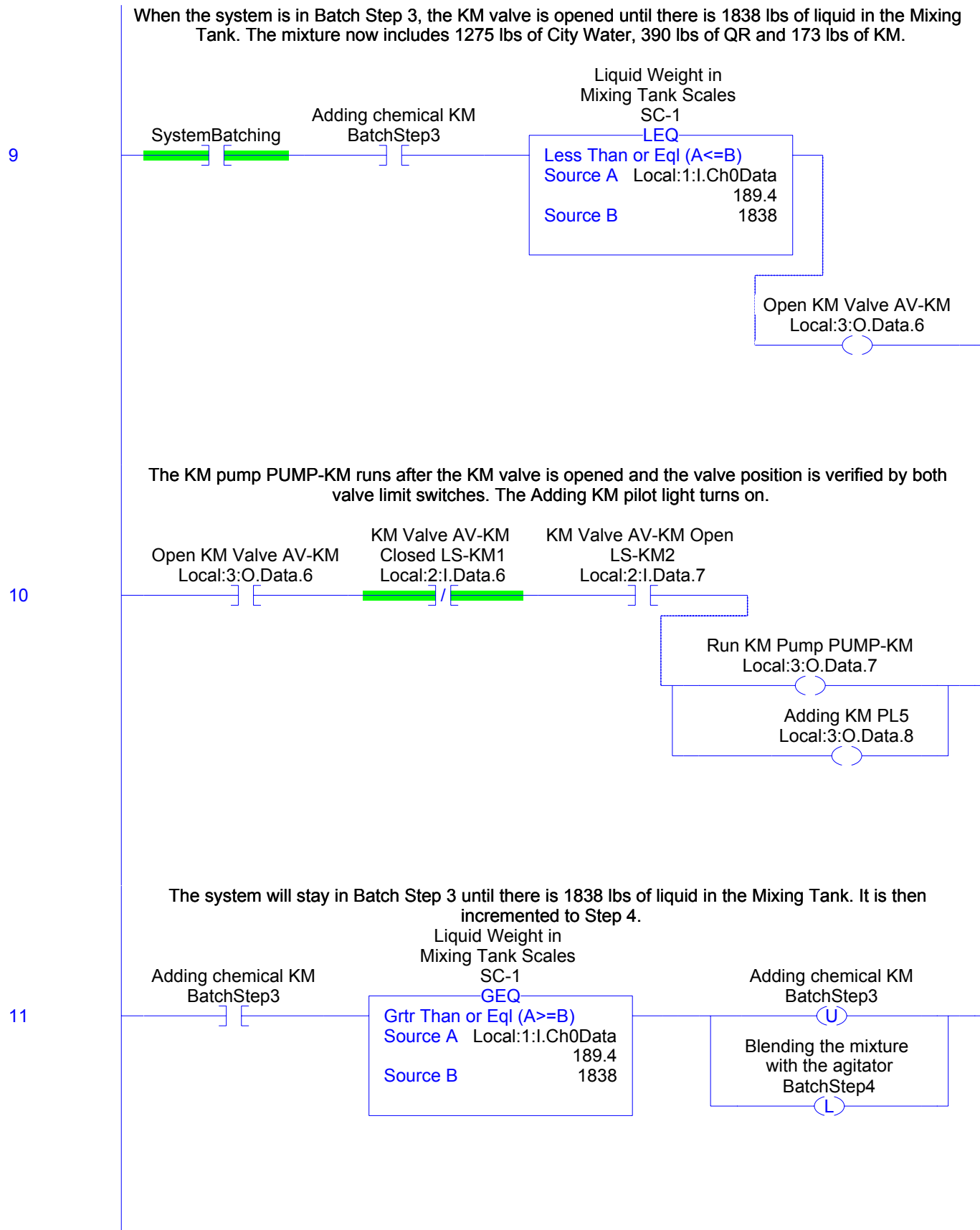
The Adding Water pilot light turns on.

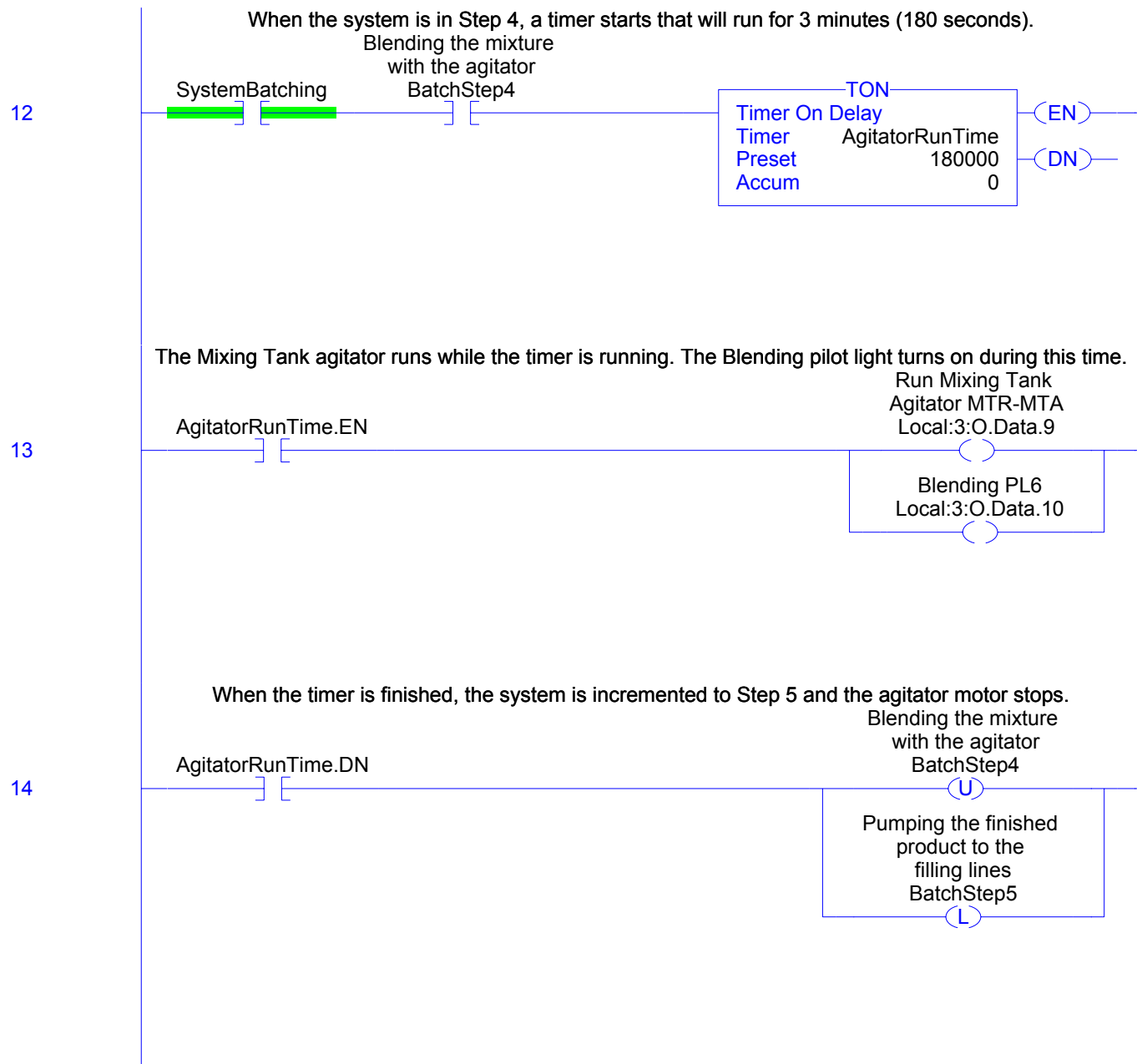


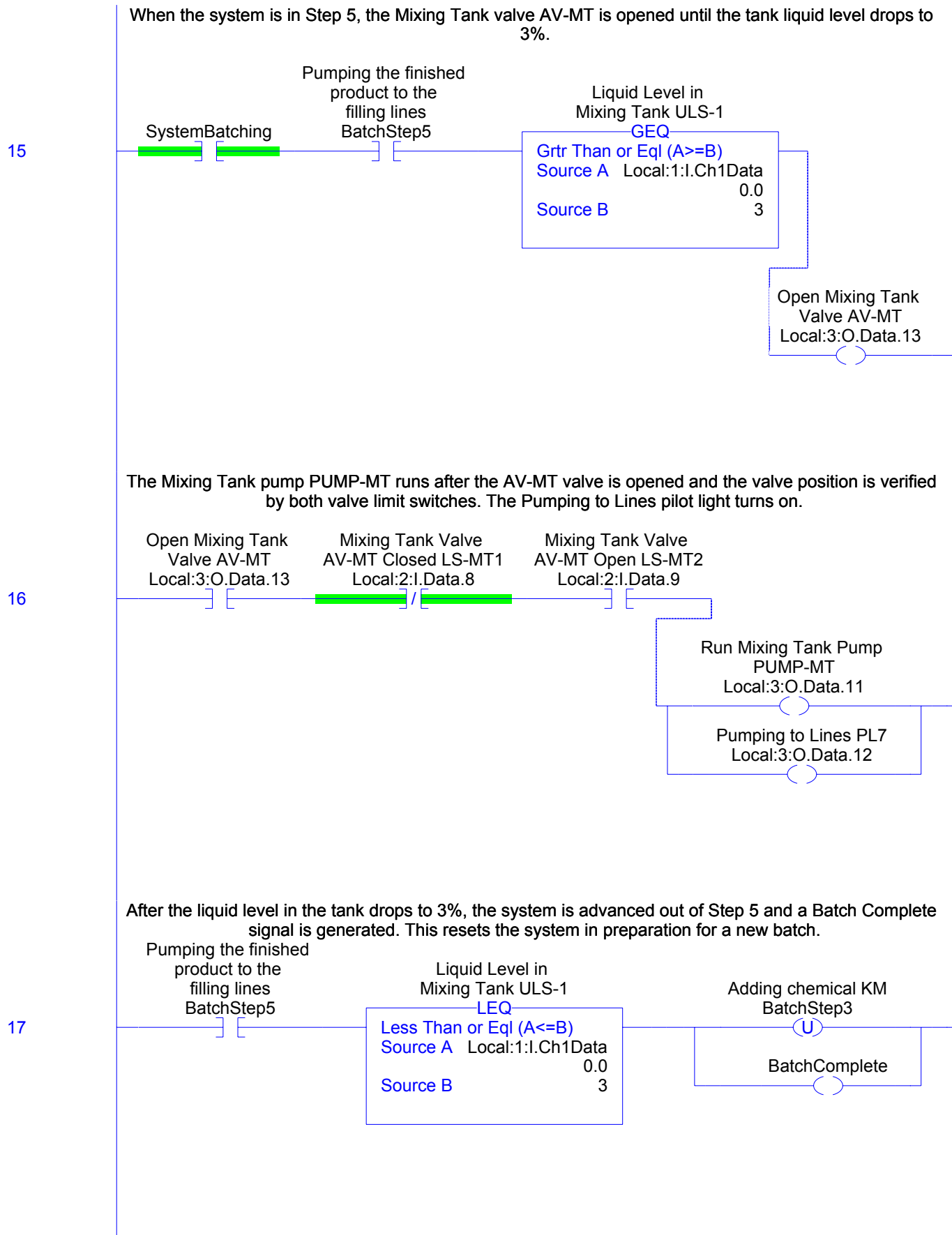
After there is 1275 lbs of water in the Mixing Tank, the system is incremented to Step 2.

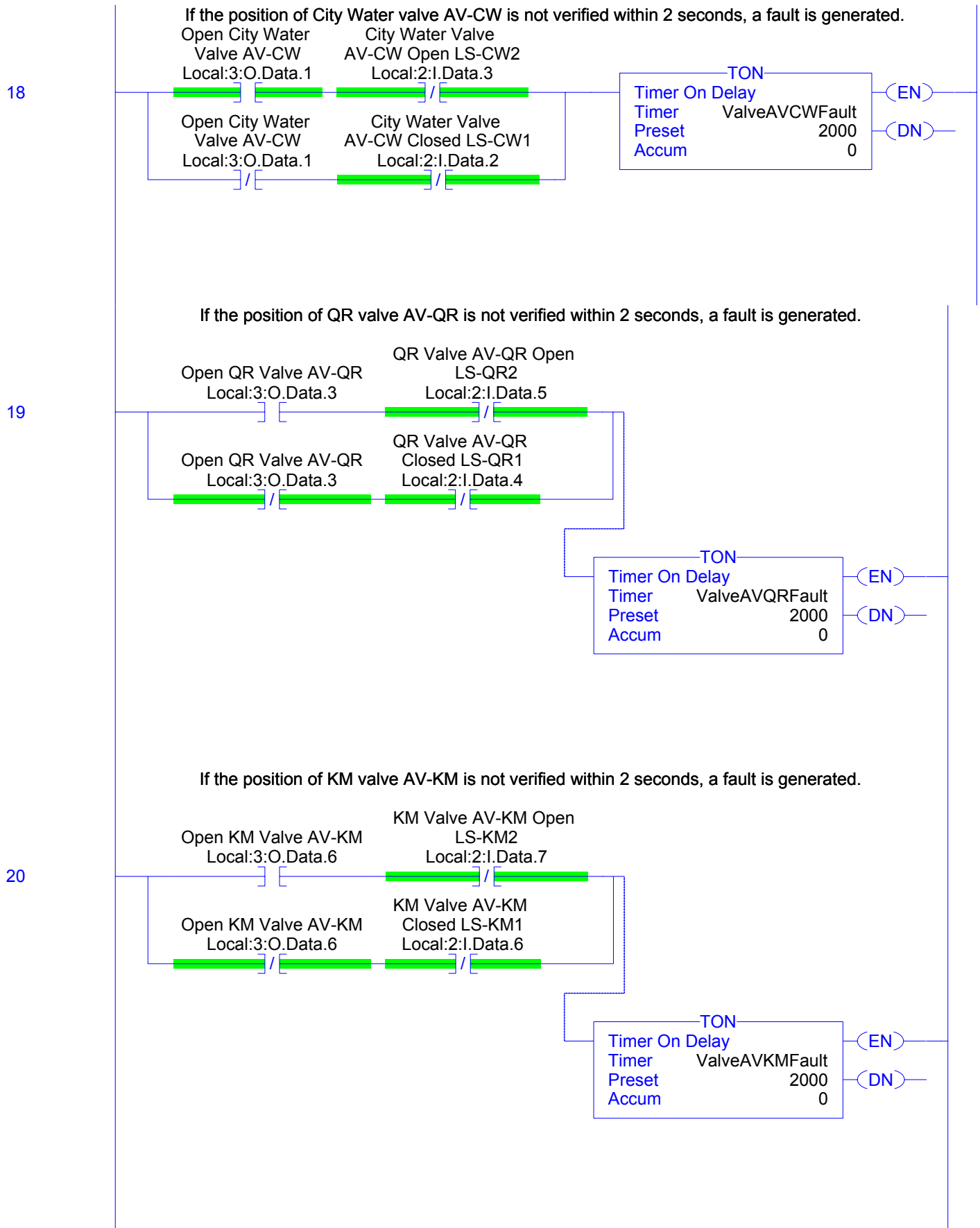


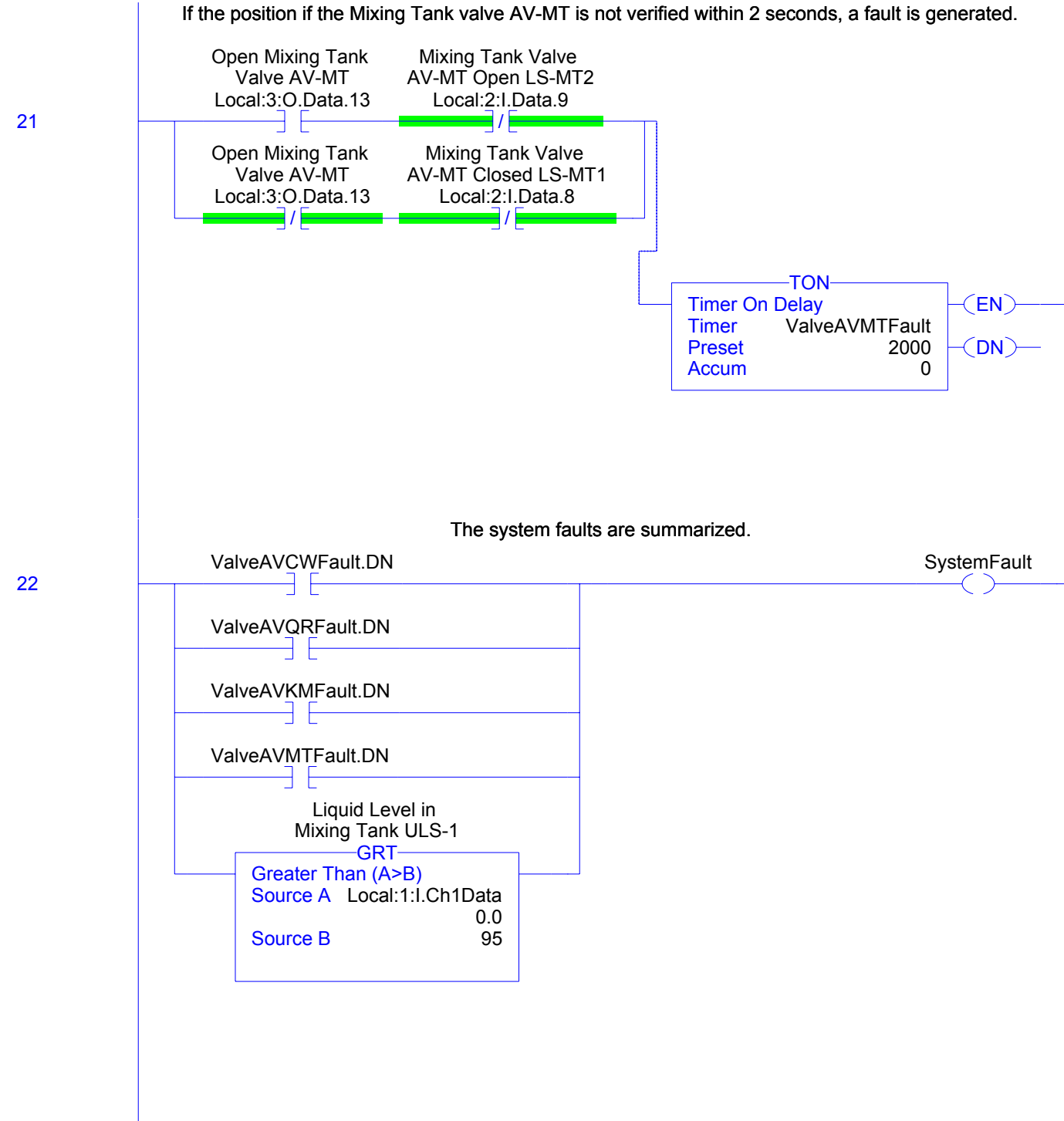


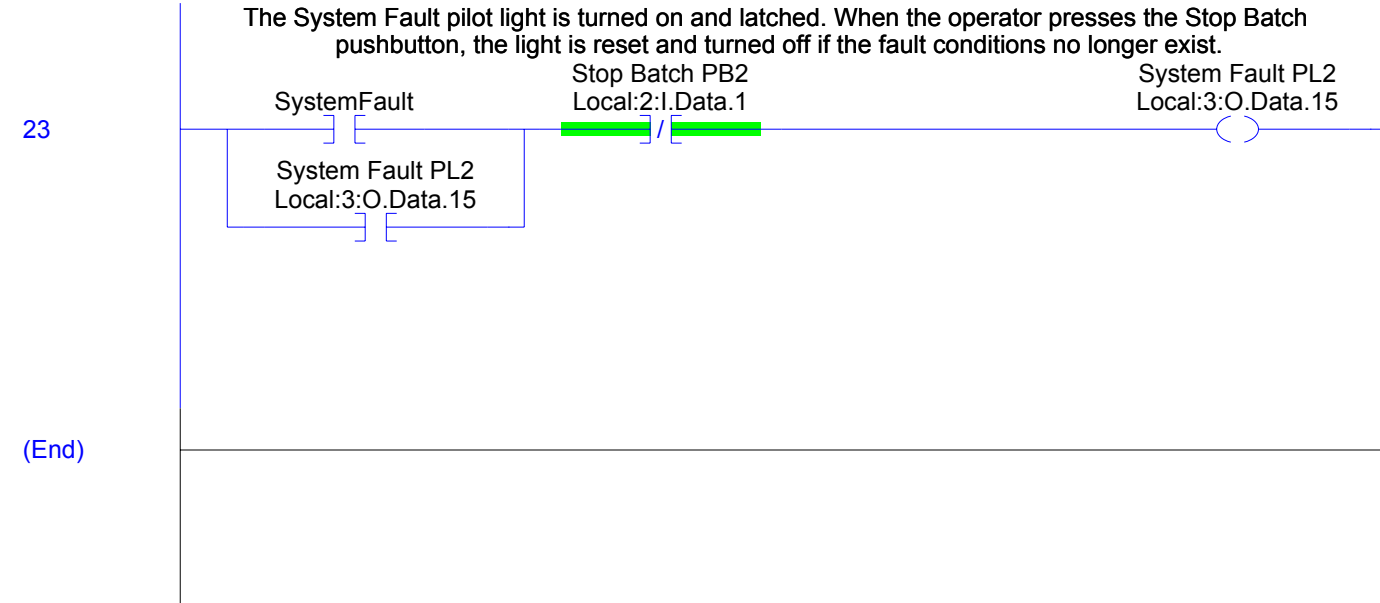












Name	Value	Data Type	Scope
AgitatorRunTime		TIMER	MainProgram
<i>AgitatorRunTime - MainProgram/MainRoutine - *12(TON)</i>			
<i>AgitatorRunTime.DN - MainProgram/MainRoutine - 14(XIC)</i>			
<i>AgitatorRunTime.EN - MainProgram/MainRoutine - 13(XIC)</i>			
BatchComplete	0	BOOL	MainProgram
<i>BatchComplete - MainProgram/MainRoutine - *17(OTE), 1(XIO)</i>			
BatchStep1	1	BOOL	MainProgram
<i>Adding City Water</i>			
<i>BatchStep1 - MainProgram/MainRoutine - *3(OTL), *5(OTU), 4(XIC), 5(XIC)</i>			
BatchStep2	0	BOOL	MainProgram
<i>Adding chemical QR</i>			
<i>BatchStep2 - MainProgram/MainRoutine - *5(OTL), *8(OTU), 3(XIO), 6(XIC)</i>			
BatchStep3	0	BOOL	MainProgram
<i>Adding chemical KM</i>			
<i>BatchStep3 - MainProgram/MainRoutine - *11(OTU), *17(OTU), *8(OTL), 11(XIC), 3(XIO), 9(XIC)</i>			
BatchStep4	0	BOOL	MainProgram
<i>Blending the mixture with the agitator</i>			
<i>BatchStep4 - MainProgram/MainRoutine - *11(OTL), *14(OTU), 12(XIC), 3(XIO)</i>			
BatchStep5	0	BOOL	MainProgram
<i>Pumping the finished product to the filling lines</i>			
<i>BatchStep5 - MainProgram/MainRoutine - *14(OTL), 15(XIC), 17(XIC), 3(XIO)</i>			
 Local:1:I		AB:1756_IF4_Float:I:0	BATCHING
<i>Local:1:I.Ch0Data - MainProgram/MainRoutine - 11(GEQ), 4(LEQ), 5(GEQ), 6(LEQ), 8(GEQ), 9(LEQ)</i>			
<i>Local:1:I.Ch1Data - MainProgram/MainRoutine - 15(GEQ), 17(LEQ), 22(GRT)</i>			
 Local:2:I		AB:1756_DI:I:0	BATCHING
<i>Local:2:I.Data.0 - MainProgram/MainRoutine - 1(XIC), 3(XIC)</i>			
<i>Local:2:I.Data.1 - MainProgram/MainRoutine - 1(XIO), 23(XIO)</i>			
<i>Local:2:I.Data.15 - MainProgram/MainRoutine - 0(XIC)</i>			
<i>Local:2:I.Data.2 - MainProgram/MainRoutine - 18(XIO)</i>			
<i>Local:2:I.Data.3 - MainProgram/MainRoutine - 18(XIO)</i>			
<i>Local:2:I.Data.4 - MainProgram/MainRoutine - 19(XIO), 7(XIO)</i>			
<i>Local:2:I.Data.5 - MainProgram/MainRoutine - 19(XIO), 7(XIC)</i>			
<i>Local:2:I.Data.6 - MainProgram/MainRoutine - 10(XIO), 20(XIO)</i>			
<i>Local:2:I.Data.7 - MainProgram/MainRoutine - 10(XIC), 20(XIO)</i>			
<i>Local:2:I.Data.8 - MainProgram/MainRoutine - 16(XIO), 21(XIO)</i>			
<i>Local:2:I.Data.9 - MainProgram/MainRoutine - 16(XIC), 21(XIO)</i>			
 Local:3:O		AB:1756_DO:O:0	BATCHING
<i>Local:3:O.Data.0 - MainProgram/MainRoutine - *2(OTE)</i>			
<i>Local:3:O.Data.1 - MainProgram/MainRoutine - *4(OTE), 18(XIC), 18(XIO)</i>			
<i>Local:3:O.Data.10 - MainProgram/MainRoutine - *13(OTE)</i>			
<i>Local:3:O.Data.11 - MainProgram/MainRoutine - *16(OTE)</i>			
<i>Local:3:O.Data.12 - MainProgram/MainRoutine - *16(OTE)</i>			
<i>Local:3:O.Data.13 - MainProgram/MainRoutine - *15(OTE), 16(XIC), 21(XIC), 21(XIO)</i>			
<i>Local:3:O.Data.15 - MainProgram/MainRoutine - *23(OTE), 23(XIC)</i>			
<i>Local:3:O.Data.2 - MainProgram/MainRoutine - *4(OTE)</i>			
<i>Local:3:O.Data.3 - MainProgram/MainRoutine - *6(OTE), 19(XIC), 19(XIO), 7(XIC)</i>			
<i>Local:3:O.Data.4 - MainProgram/MainRoutine - *7(OTE)</i>			
<i>Local:3:O.Data.5 - MainProgram/MainRoutine - *7(OTE)</i>			
<i>Local:3:O.Data.6 - MainProgram/MainRoutine - *9(OTE), 10(XIC), 20(XIC), 20(XIO)</i>			
<i>Local:3:O.Data.7 - MainProgram/MainRoutine - *10(OTE)</i>			
<i>Local:3:O.Data.8 - MainProgram/MainRoutine - *10(OTE)</i>			

Local:3:O (Continued)

*Local:3:O.Data.9 - MainProgram/MainRoutine - *13(OTE)*

SystemBatching 1 BOOL MainProgram
*SystemBatching - MainProgram/MainRoutine - *1(OTE), 1(XIC), 12(XIC), 15(XIC), 2(XIO), 3(XIC), 4(XIC), 6(XIC), 9(XIC)*

SystemEnable 1 BOOL MainProgram
*SystemEnable - MainProgram/MainRoutine - *0(OTE), 1(XIC), 2(XIC)*

SystemFault 0 BOOL MainProgram
*SystemFault - MainProgram/MainRoutine - *22(OTE), 0(XIO), 23(XIC)*

SystemReady 1 BOOL MainProgram
*SystemReady - MainProgram/MainRoutine - *2(OTE)*

ValveAVCWFault TIMER MainProgram
*ValveAVCWFault - MainProgram/MainRoutine - *18(TON)*
ValveAVCWFault.DN - MainProgram/MainRoutine - 22(XIC)

ValveAVKMFault TIMER MainProgram
*ValveAVKMFault - MainProgram/MainRoutine - *20(TON)*
ValveAVKMFault.DN - MainProgram/MainRoutine - 22(XIC)

ValveAVMTFault TIMER MainProgram
*ValveAVMTFault - MainProgram/MainRoutine - *21(TON)*
ValveAVMTFault.DN - MainProgram/MainRoutine - 22(XIC)

ValveAVQRFault TIMER MainProgram
*ValveAVQRFault - MainProgram/MainRoutine - *19(TON)*
ValveAVQRFault.DN - MainProgram/MainRoutine - 22(XIC)

Data type Name: STRING

Description:

Size 88 byte(s)

Name	Data Type	Style
LEN	DINT	Decimal
DATA	SINT[82]	ASCII

Description
