

Temperature-Controlled Batch Reactor System / PLC_1 [CPU 315-2 PN/DP] / Program blocks

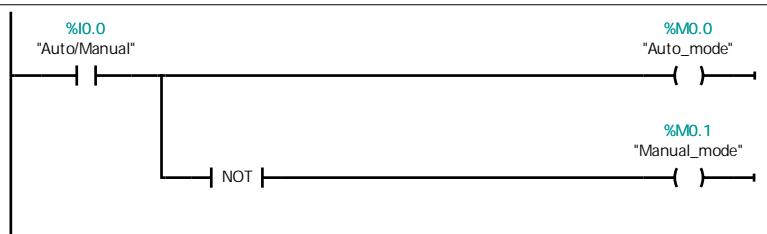
Main [OB1]

Main Properties											
General											
Name	Main	Number	1	Type	OB	Language	LAD	Numbering	Manual		
Information											
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family		Version	0.1	User-defined ID	

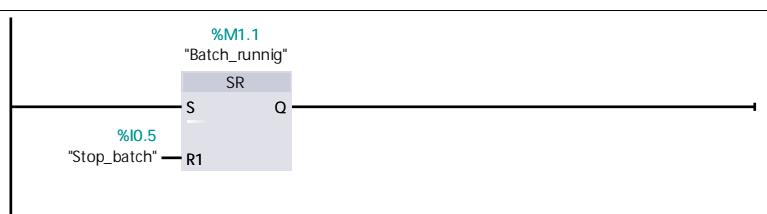
Main

Name	Data type	Default value
▼ Temp		
OB1_EV_CLASS	Byte	
OB1_SCAN_1	Byte	
OB1_PRIORITY	Byte	
OB1_OB_NUMBR	Byte	
OB1_RESERVED_1	Byte	
OB1_RESERVED_2	Byte	
OB1_PREV_CYCLE	Int	
OB1_MIN_CYCLE	Int	
OB1_MAX_CYCLE	Int	
OB1_DATE_TIME	Date_And_Time	
Constant		

Network 1:



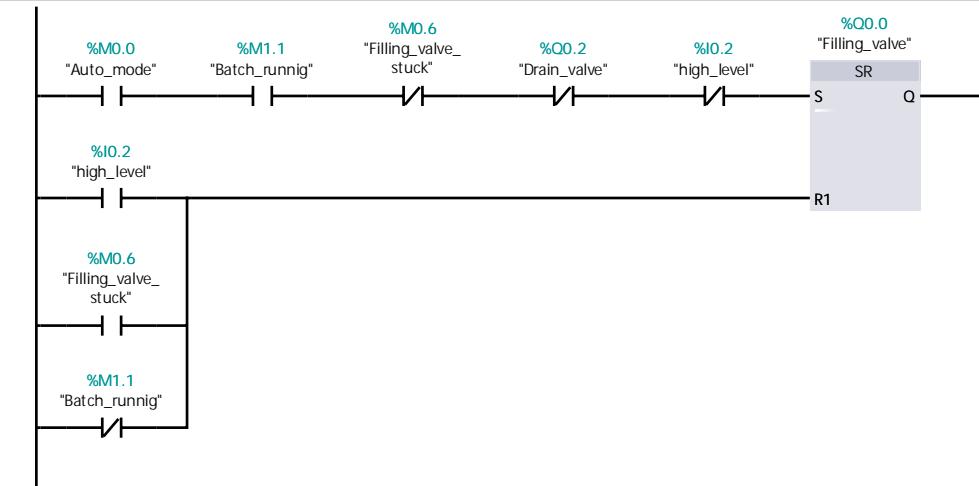
Network 2:



Network 3: Auto Mode

Filling condition

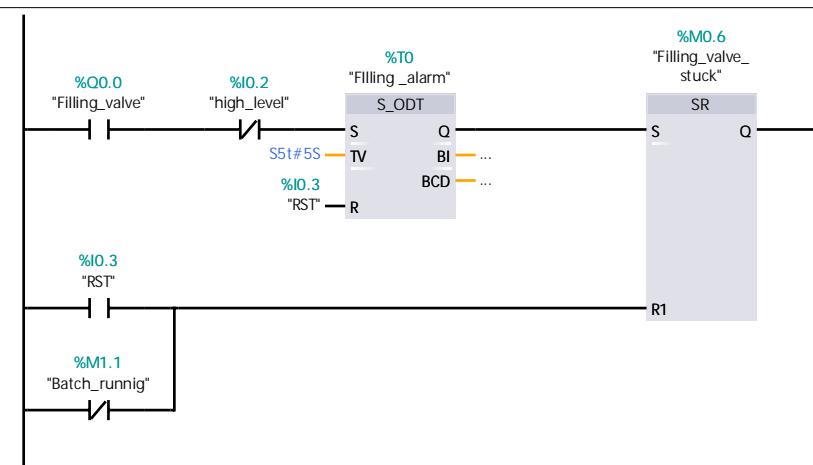
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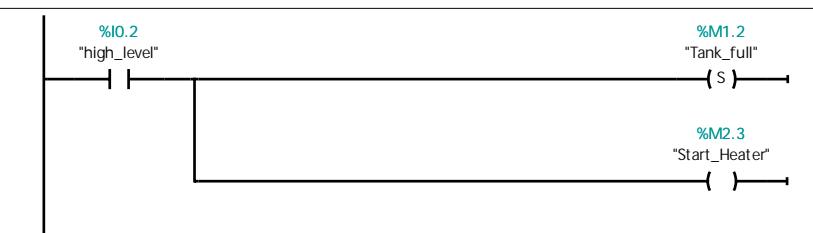
Network 4:

filling supervising (time based alarm triggering)

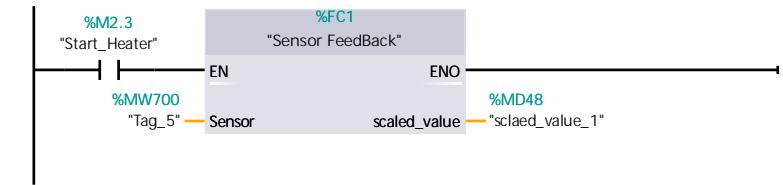
if the filling valve open mor than 5 sec and the high level switch is not active alarm will trigger and force the valve to close



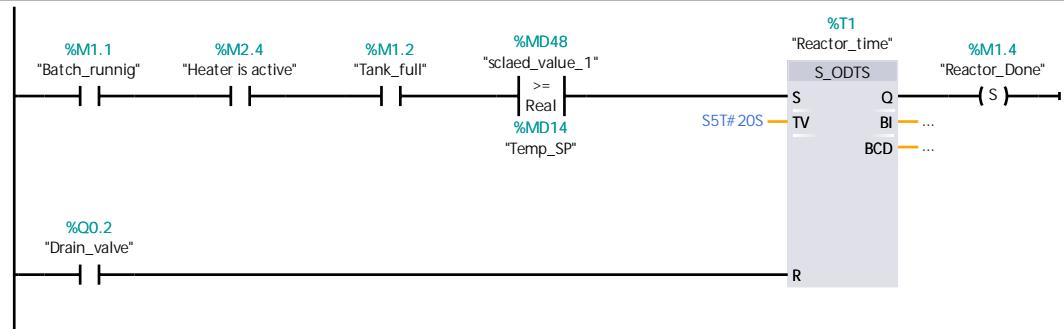
Network 5:



Network 6:

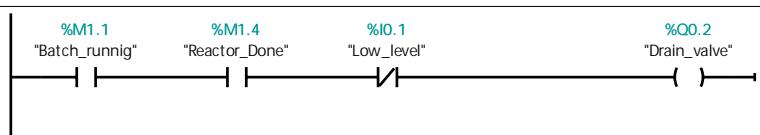


Network 7: Reactor wait time

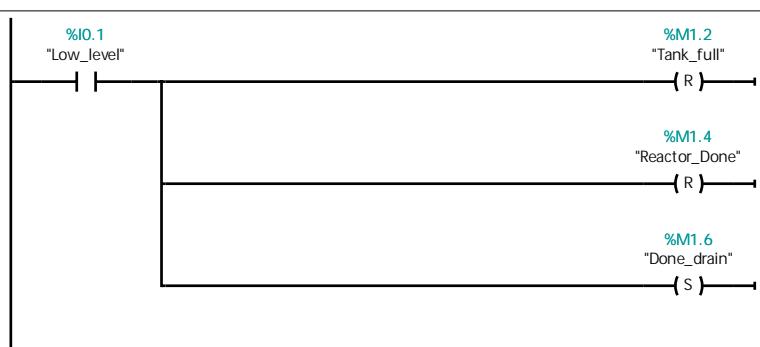


Network 8:

Drain Phase: Enable valve only if batch running, reaction done, and tank not empty

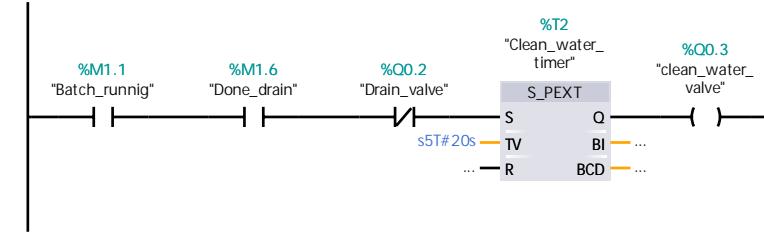


Network 9:

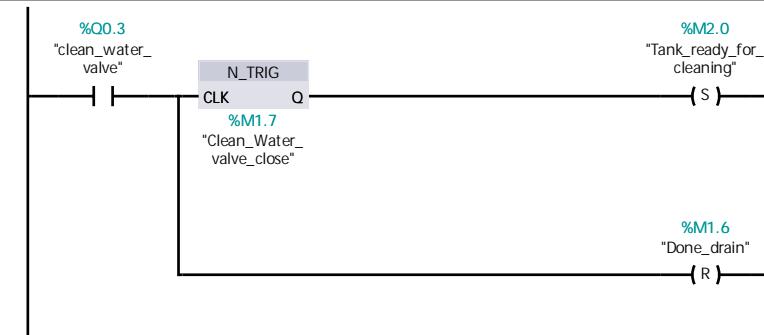


Network 10:

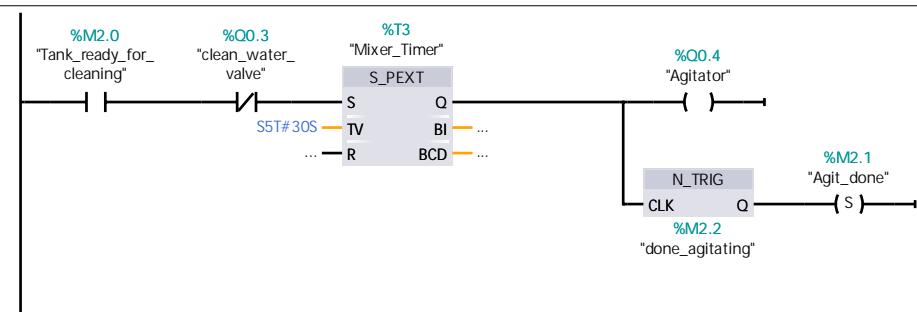
cleaning Pase



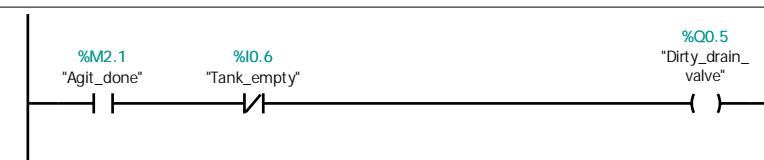
Network 11:



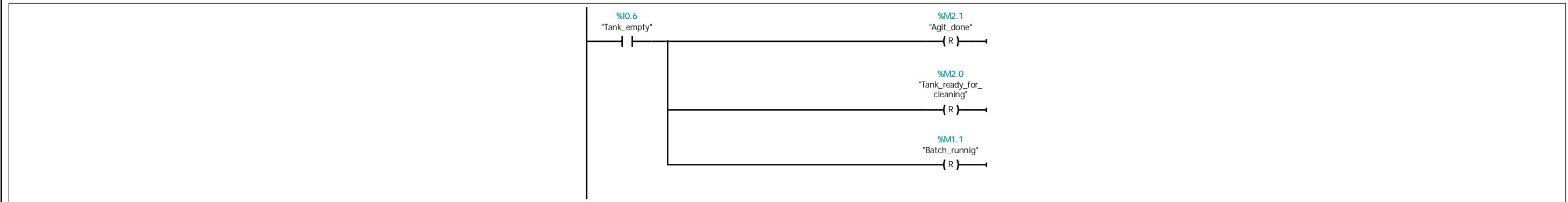
Network 12:



Network 13:



once the tank is empty and the M2.1 and M2.0 are rested the logic now is waiting for the start cmd to start new batch



Network 15:

