OB1 - <offline>

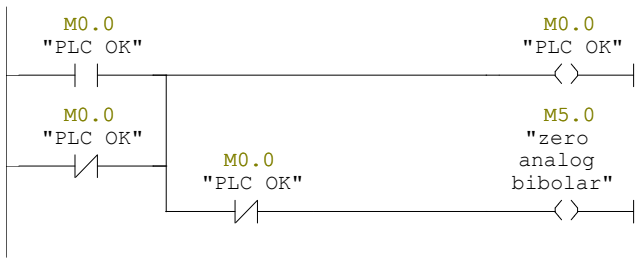
""

Name: **Family:**
Author: **Version:** 0.1
Block version: 2
Time stamp Code: 07/11/2023 09:42:51 PM
Interface: 02/15/1996 04:51:12 PM
Lengths (block/logic/data): 02764 02494 00250

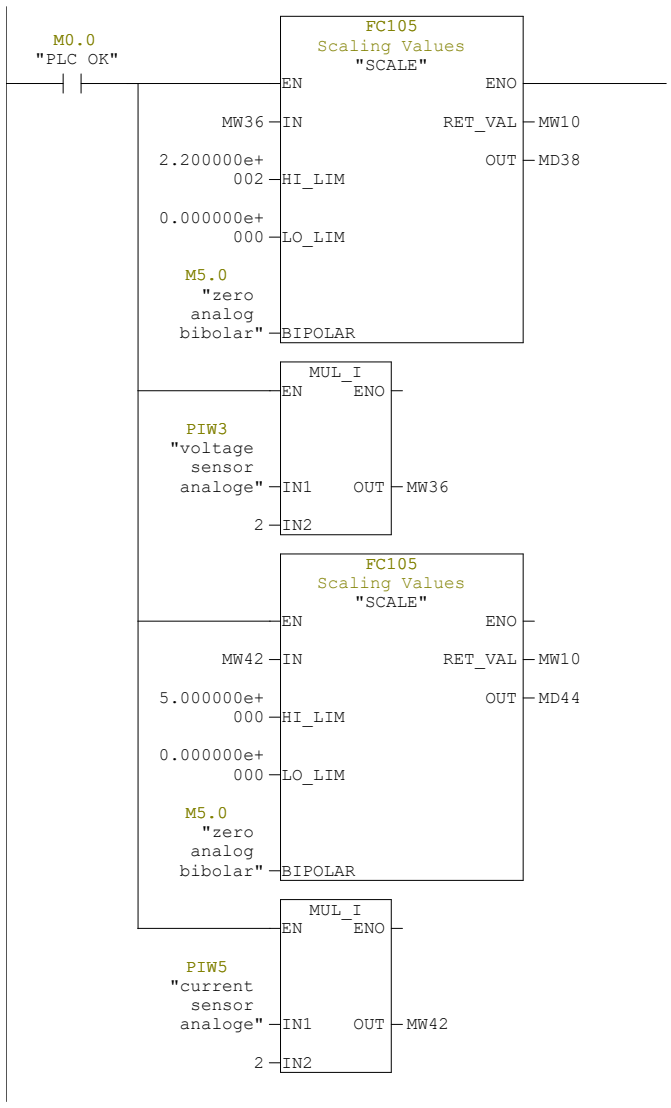
Name	Data Type	Address	Comment
TEMP		0.0	
OB1_EV_CLASS	Byte	0.0	Bits 0-3 = 1 (Coming event), Bits 4-7 = 1 (Event class 1)
OB1_SCAN_1	Byte	1.0	1 (Cold restart scan 1 of OB 1), 3 (Scan 2-n of OB 1)
OB1_PRIORITY	Byte	2.0	Priority of OB Execution
OB1_OB_NUMBR	Byte	3.0	1 (Organization block 1, OB1)
OB1_RESERVED_1	Byte	4.0	Reserved for system
OB1_RESERVED_2	Byte	5.0	Reserved for system
OB1_PREV_CYCLE	Int	6.0	Cycle time of previous OB1 scan (milliseconds)
OB1_MIN_CYCLE	Int	8.0	Minimum cycle time of OB1 (milliseconds)
OB1_MAX_CYCLE	Int	10.0	Maximum cycle time of OB1 (milliseconds)
OB1_DATE_TIME	Date_And_Time	12.0	Date and time OB1 started

Block: OB1 "Main Program Sweep (Cycle)"

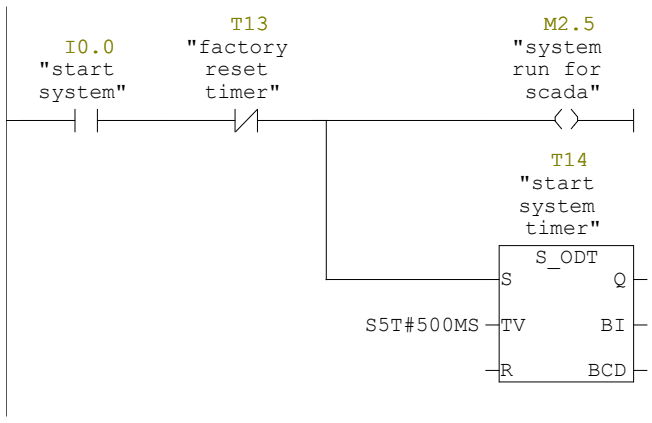
Network: 1 PLC conn. for scada



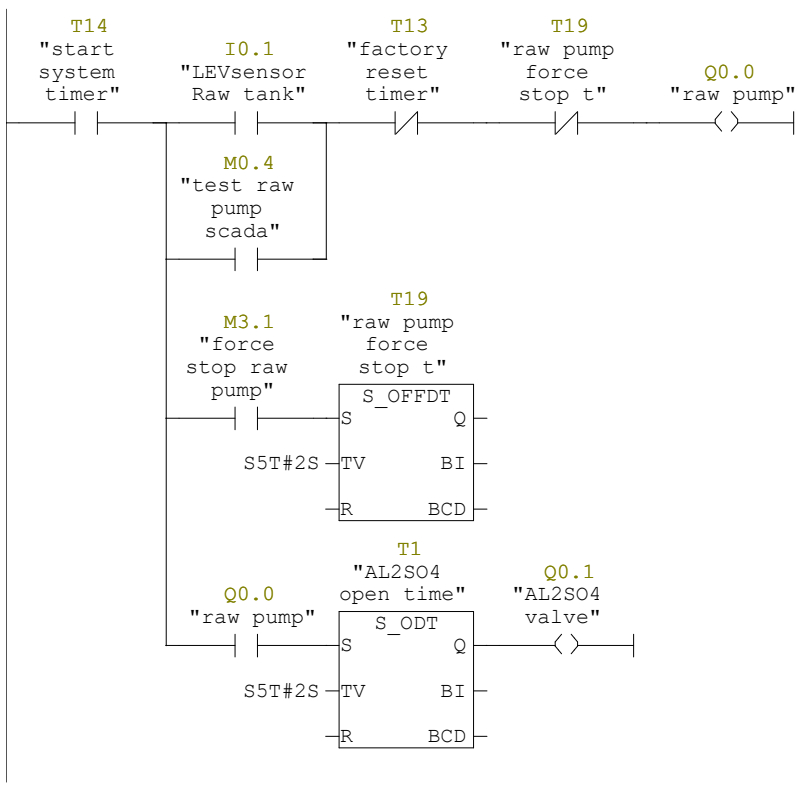
Network: 2 voltage and current measuring



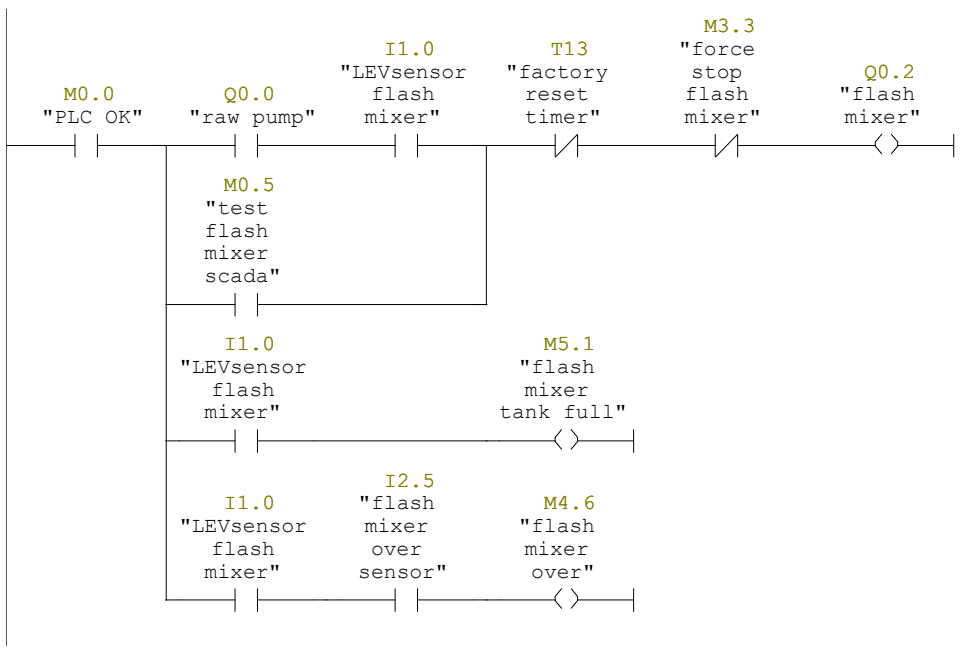
Network: 3 system run for scada



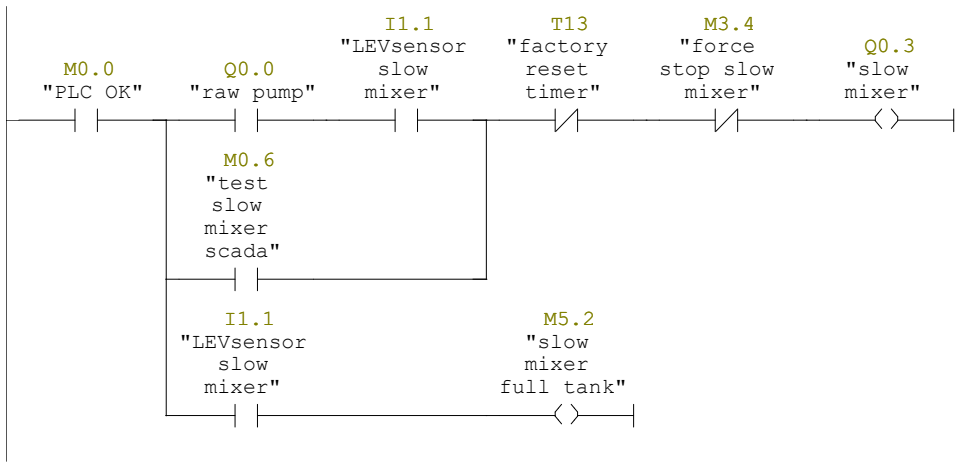
Network: 4 raw pump system operation



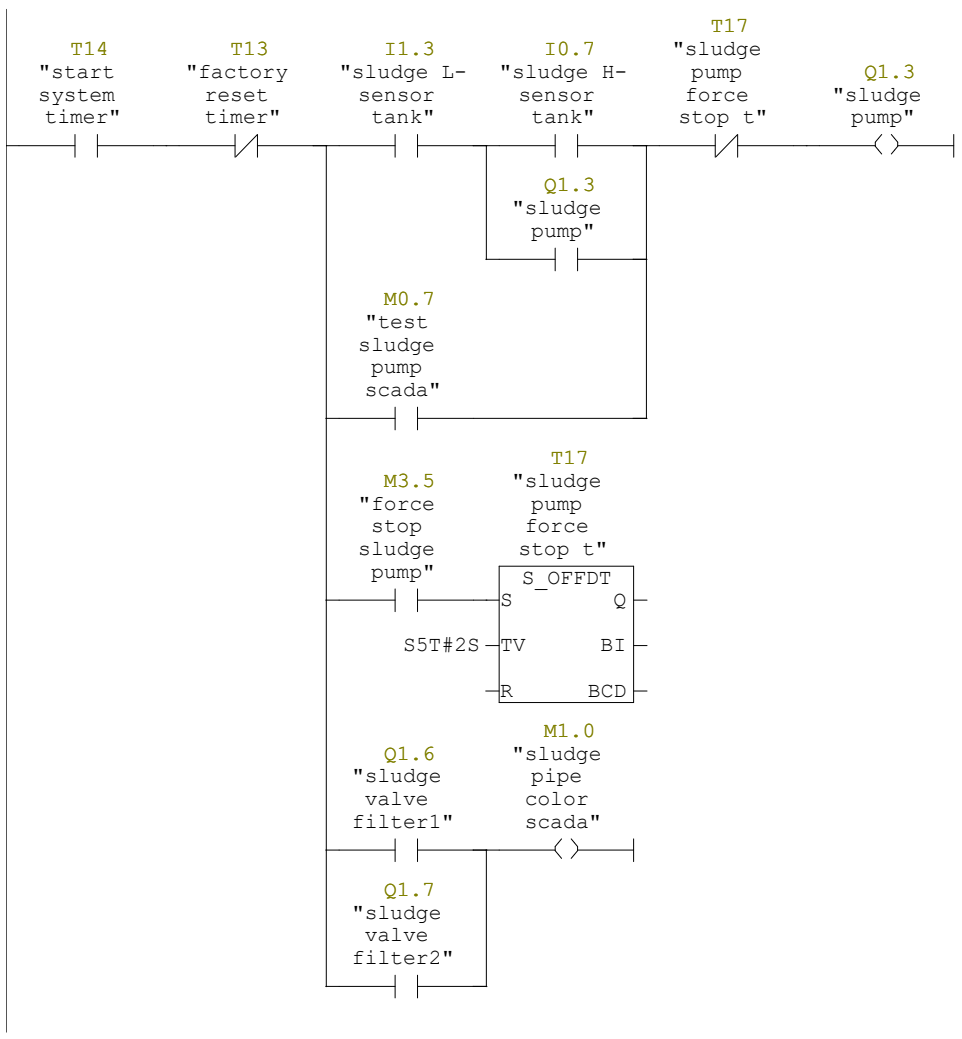
Network: 5 flash mixer network



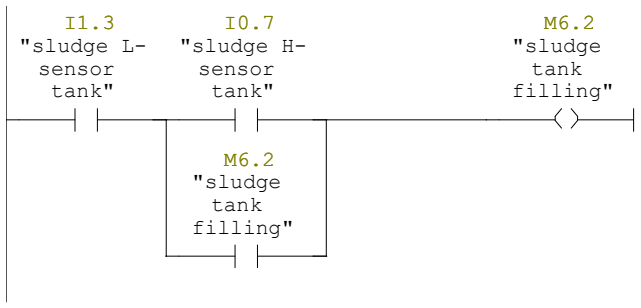
Network: 6 slow mixer network



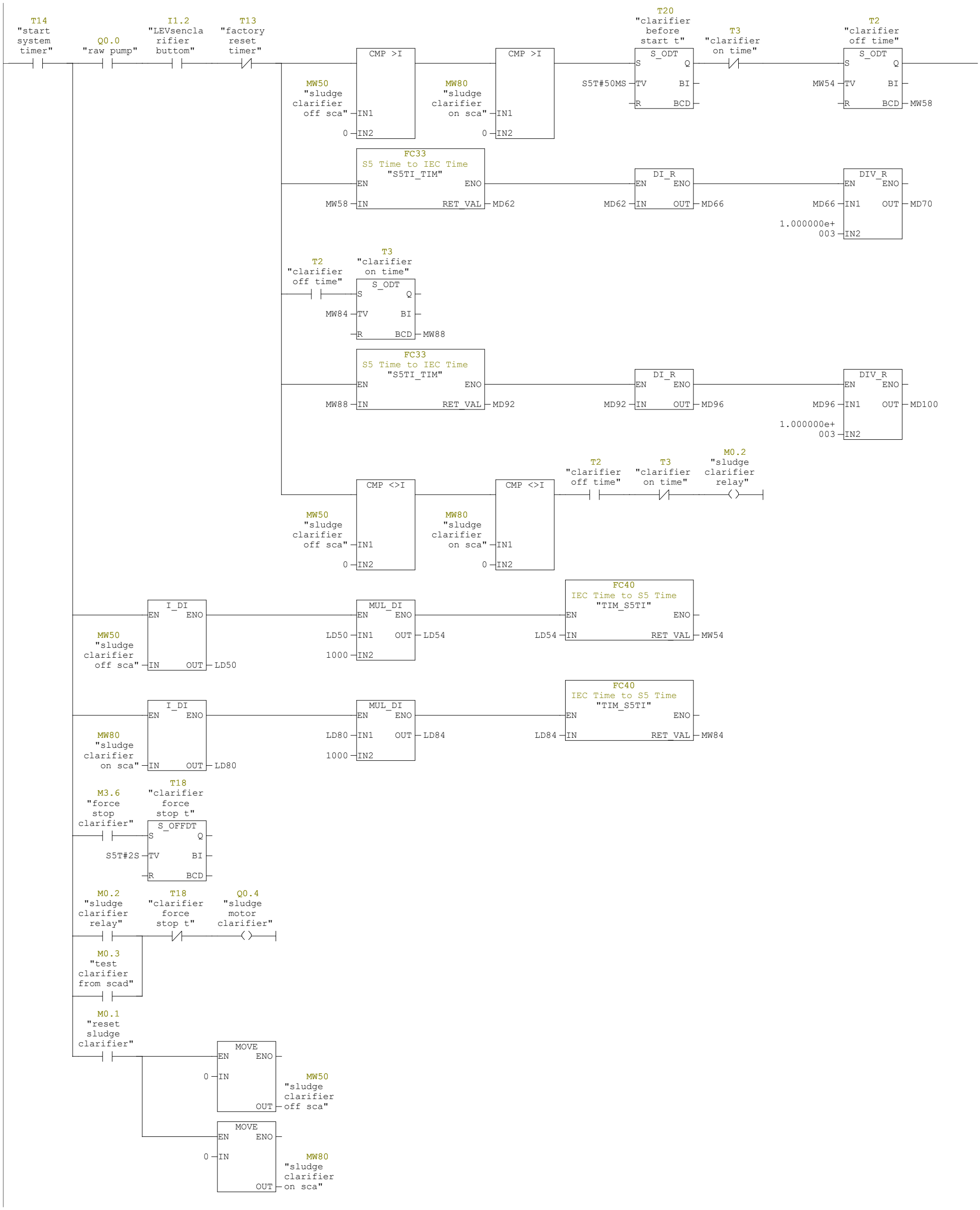
Network: 7 sludge pump network



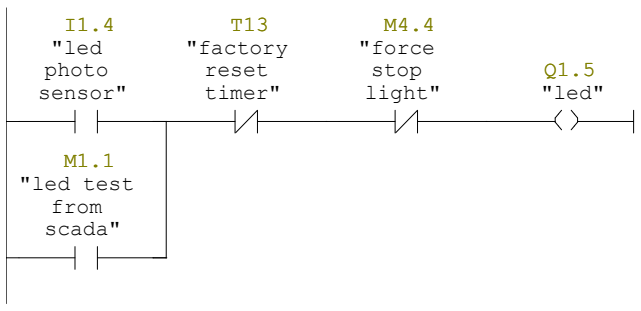
Network: 8 sludge tank fill



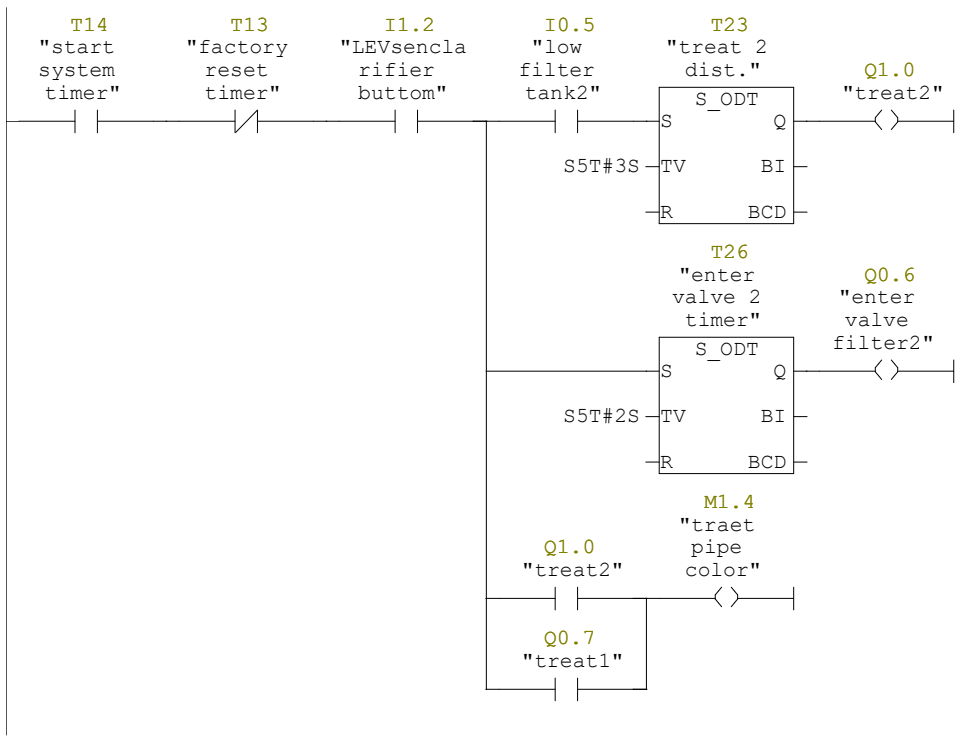
Network: 9 sludge motor clarifier timer operation



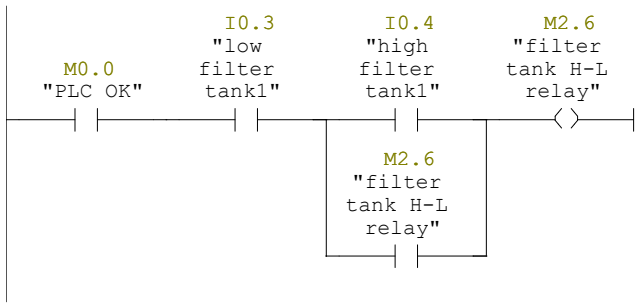
Network: 10 lighting system



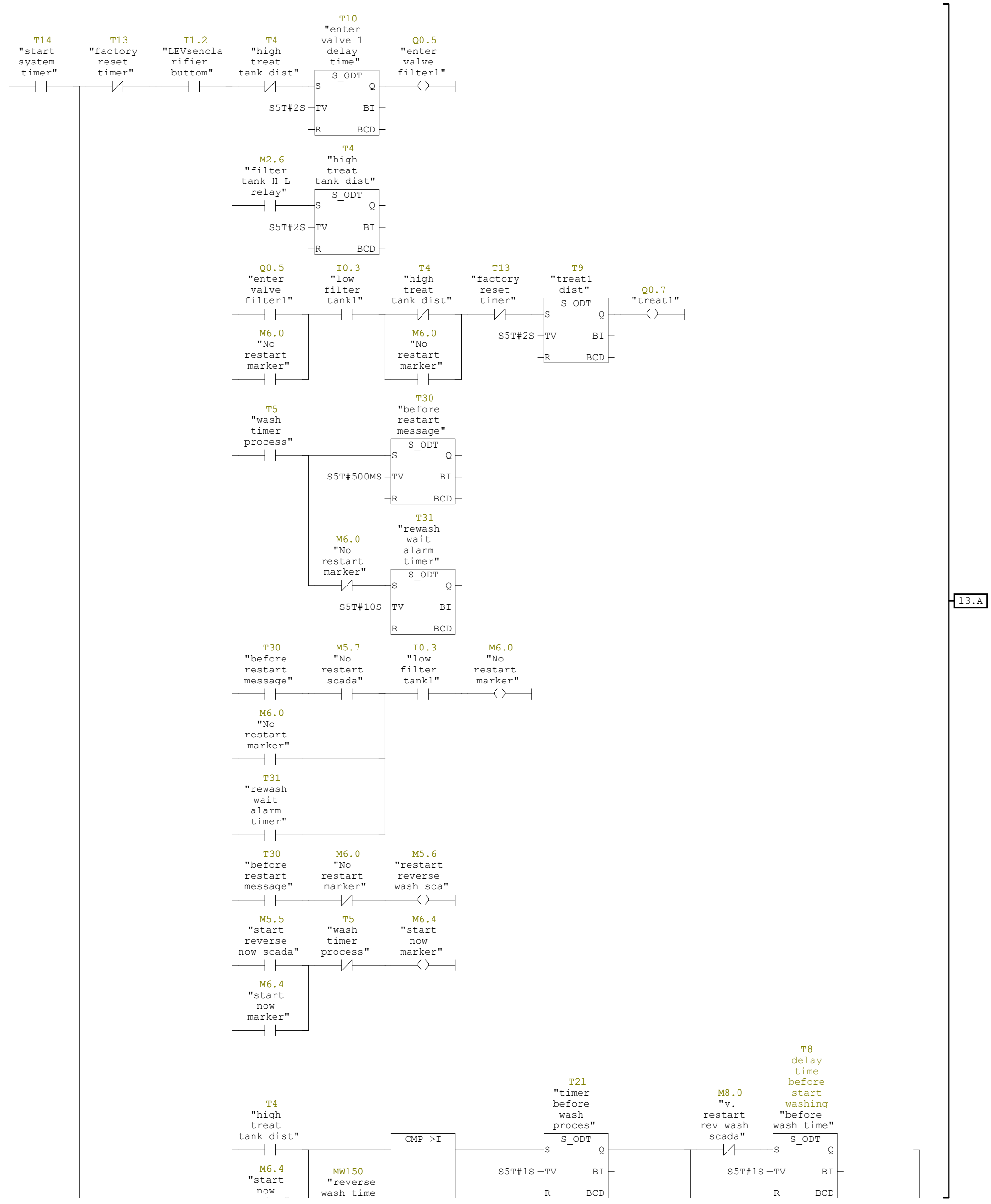
Network: 11 treat tank 2



Network: 12 filter-1 high signal



Network: 13 treat tank 1



marker"
scada" IN1
0 IN2

Q1.6
"sludge valve filter1"

FC40
IEC Time to S5 Time
"TIM_S5TI"

I_DI
MW150 "reverse wash time scada" IN OUT LD150

MUL_DI
LD150 IN1 OUT LD154
1000 IN2

LD154 IN RET_VAL MW154

FC33
S5 Time to IEC Time
"S5TI_TIM"

MW200 IN RET_VAL MD204

DI_R
MD204 IN OUT MD208

DIV_R
MD208 IN1
1.000000e+003 IN2 OUT MD212 "rev wash reminder scada"

13.B

CMP <=I
MW150 "reverse wash time scada" IN1
99 IN2

MUL_I
MW150 "reverse wash time scada" IN1 OUT LW216
10 IN2

DIV_I
LW216 IN1 OUT LW218
3 IN2

SUB_I
LW216 IN1 OUT LW220
LW218 IN2

DIV_I
LW216 IN1 OUT LW222
6 IN2

SUB_I
LW216 IN1 OUT LW224
LW222 IN2

CMP >I
MW150 "reverse wash time scada" IN1
99 IN2

MUL_I
MW150 "reverse wash time scada" IN1 OUT LW230
1 IN2

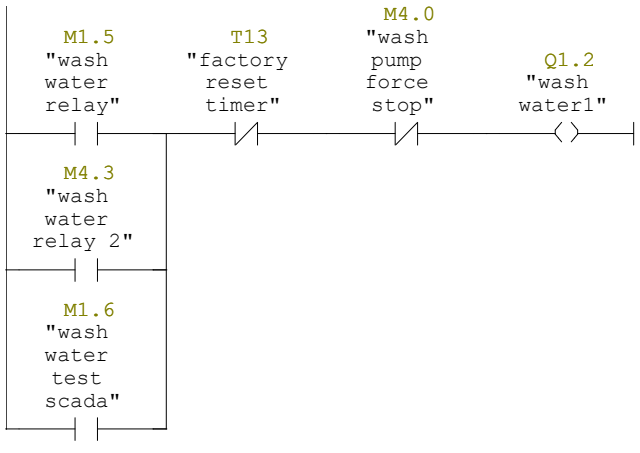
DIV_I
LW230 IN1 OUT LW232
3 IN2

SUB_I
LW230 IN1 OUT LW236
LW232 IN2

DIV_I
LW230 IN1 OUT LW234
6 IN2

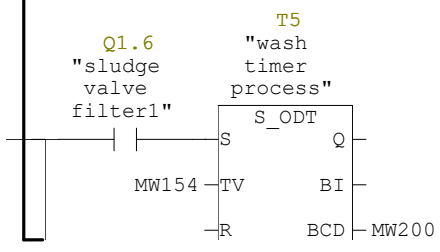
SUB_I
LW230 IN1 OUT LW238
LW234 IN2

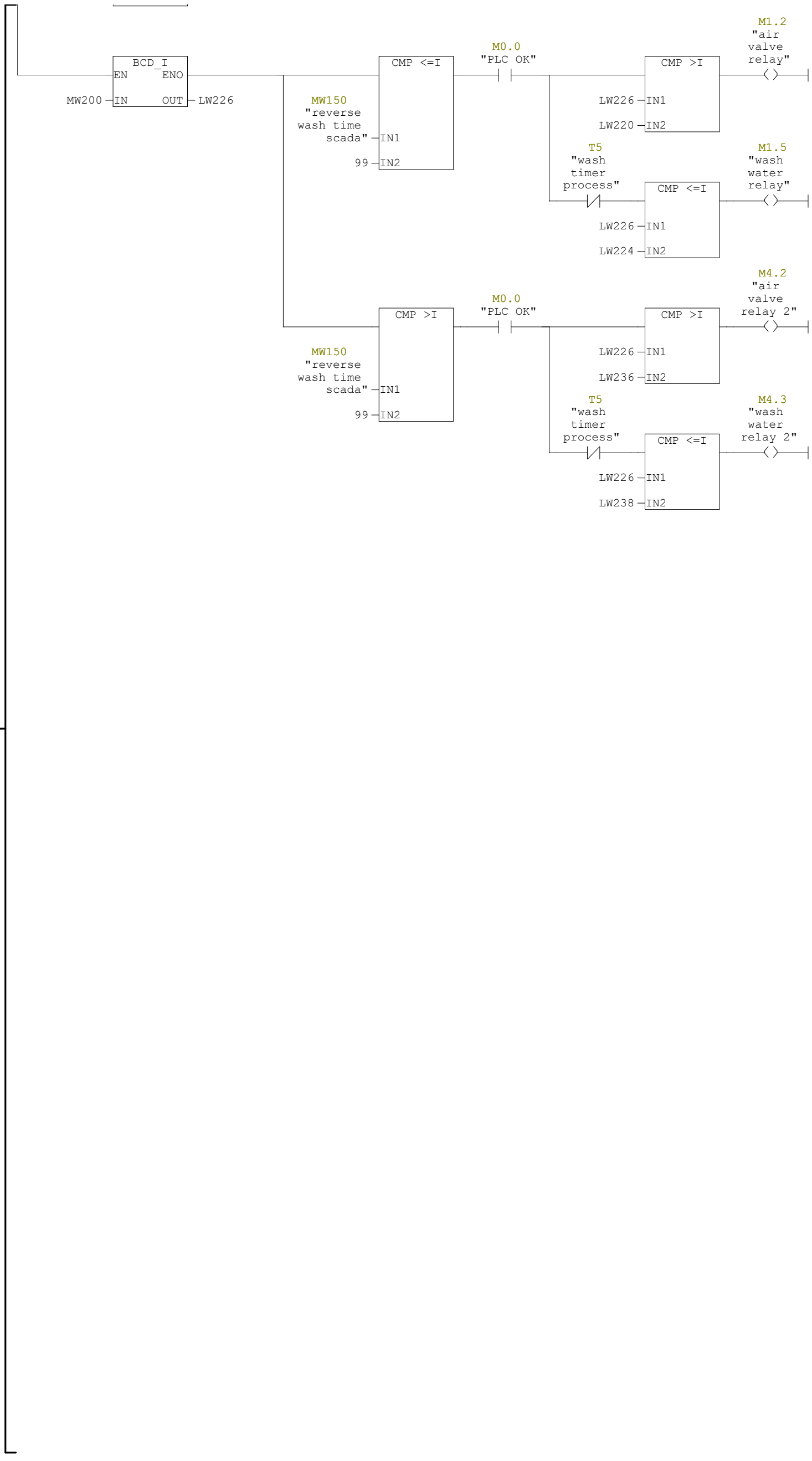
M1.2 "air valve relay"
T13 "factory reset timer"
M3.7 "air blower force stop"
Q1.1 "air valve1"
M4.2 "air valve relay 2"
M1.3 "air valve test scada"


M1.5
"wash water relay"
T13
"factory reset timer"
M4.0
"wash pump force stop"
Q1.2
"wash water1"
M4.3
"wash water relay 2"
M1.6
"wash water test scada"

13.C

13.A

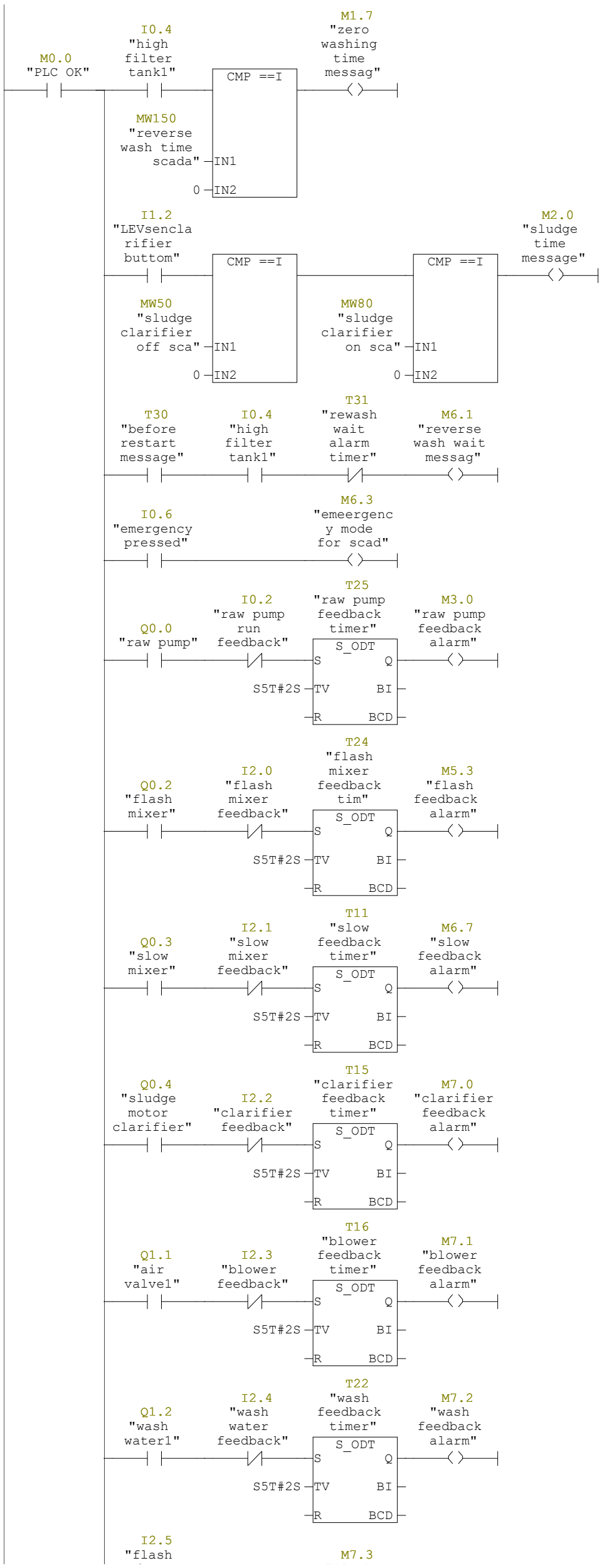

Q1.6
"sludge valve filter1"
T5
"wash timer process"
S_ODT
S
Q
MW154
TV
BI
R
BCD
MW200

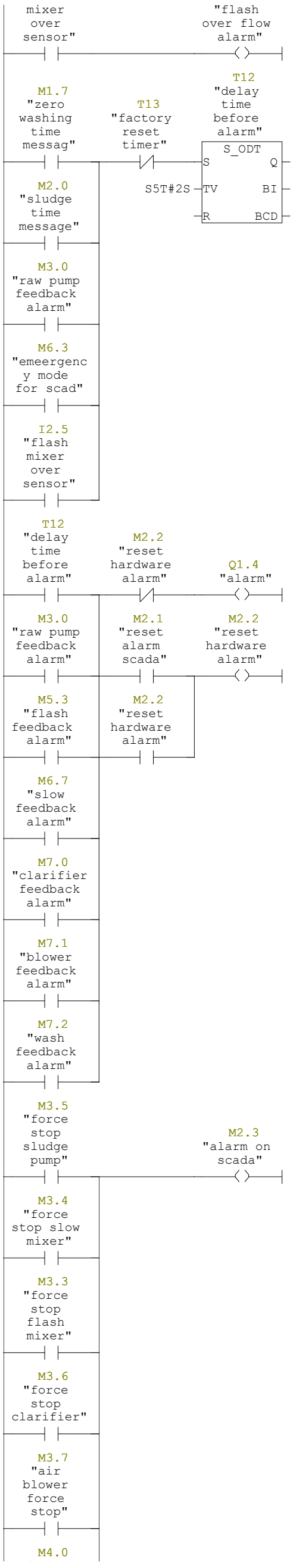

BCD_I
EN
ENO
MW200
IN
OUT
LW226
MW150
"reverse wash time scada"
99
CMP <=I
IN1
IN2
M0.0
"PLC OK"
CMP >I
LW226
LW220
M1.2
"air valve relay"
T5
"wash timer process"
LW224
M1.5
"wash water relay"
LW236
M4.2
"air valve relay 2"
LW238
M4.3
"wash water relay 2"

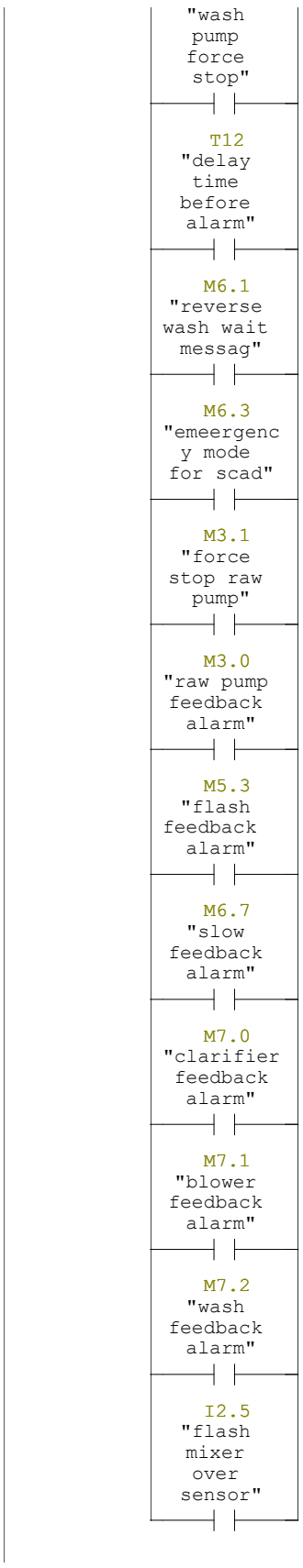
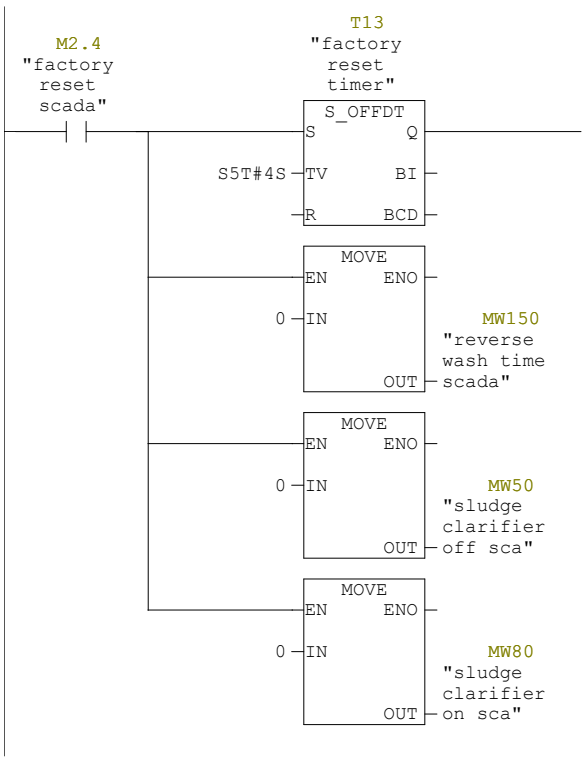
13.B

13.C

Network: 14 alarms




mixer over sensor"
"flash over flow alarm"
M1.7 "zero washing time messag"
T13 "factory reset timer"
T12 "delay time before alarm"
S_ODT
S
Q
S5T#2S
TV
BI
R
BCD
M2.0 "sludge time message"
M3.0 "raw pump feedback alarm"
M6.3 "emeergenc y mode for scad"
I2.5 "flash mixer over sensor"
T12 "delay time before alarm"
M2.2 "reset hardware alarm"
Q1.4 "alarm"
M3.0 "raw pump feedback alarm"
M2.1 "reset alarm scada"
M2.2 "reset hardware alarm"
M5.3 "flash feedback alarm"
M2.2 "reset hardware alarm"
M6.7 "slow feedback alarm"
M7.0 "clarifier feedback alarm"
M7.1 "blower feedback alarm"
M7.2 "wash feedback alarm"
M3.5 "force stop sludge pump"
M2.3 "alarm on scada"
M3.4 "force stop slow mixer"
M3.3 "force stop flash mixer"
M3.6 "force stop clarifier"
M3.7 "air blower force stop"
M4.0



Network: 15 plant reset