

TECHNICAL DOCUMENTATION

SP9_9

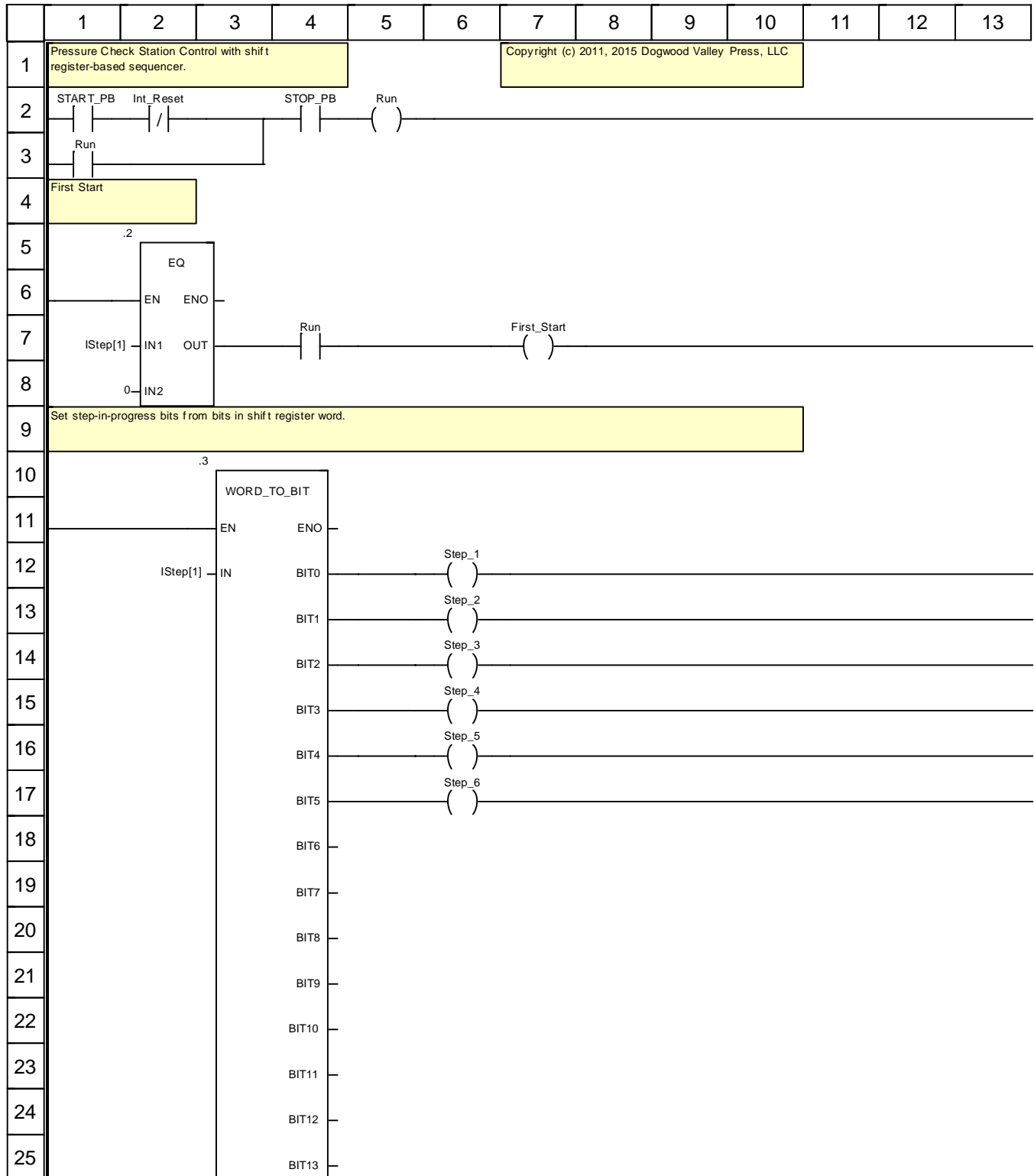
Project	SP9_9
Designer	
Application	sp9_09.stu
Software Version	Control Expert V15.0-SP1
Creation Date	6/23/2023 4:40:31 PM
Last Modification Date	6/23/2023 4:42:24 PM
Target PLC	BMX P34 1000 02.00CPU 340-10 Modbus

MAST

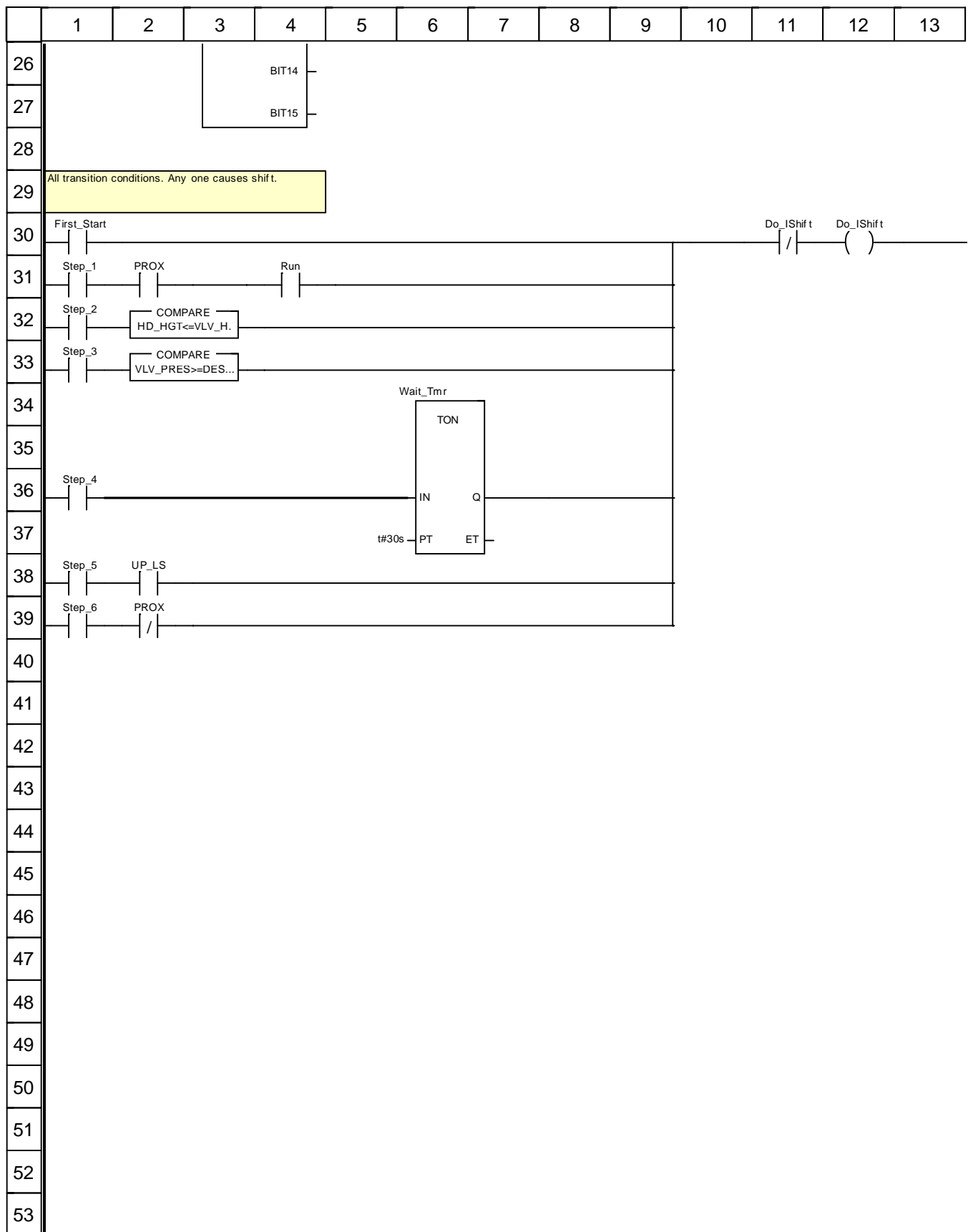
Specific properties

Configuration	Cyclic
Task period configuration	0
Watchdog time configuration	250

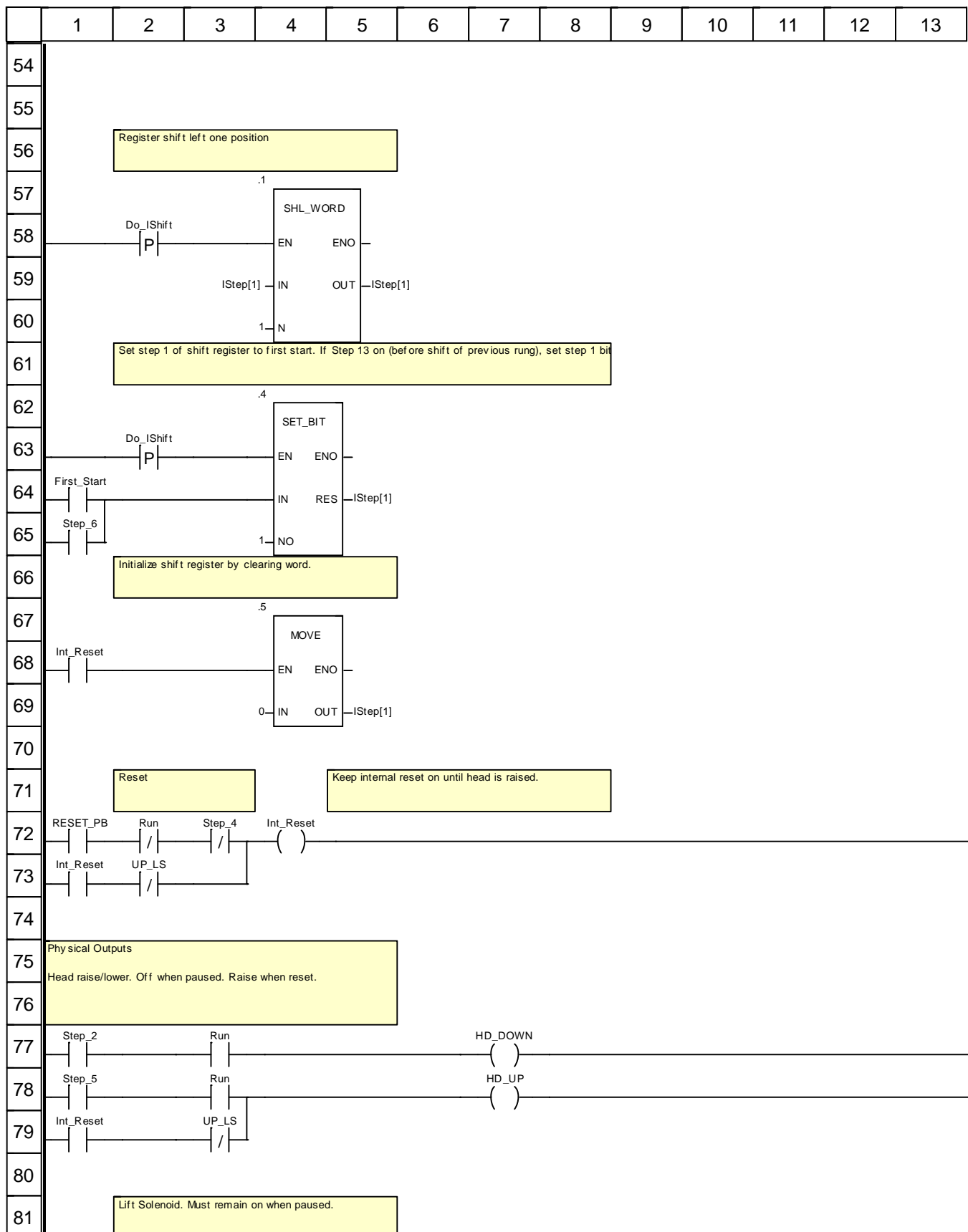
Main : [MAST]



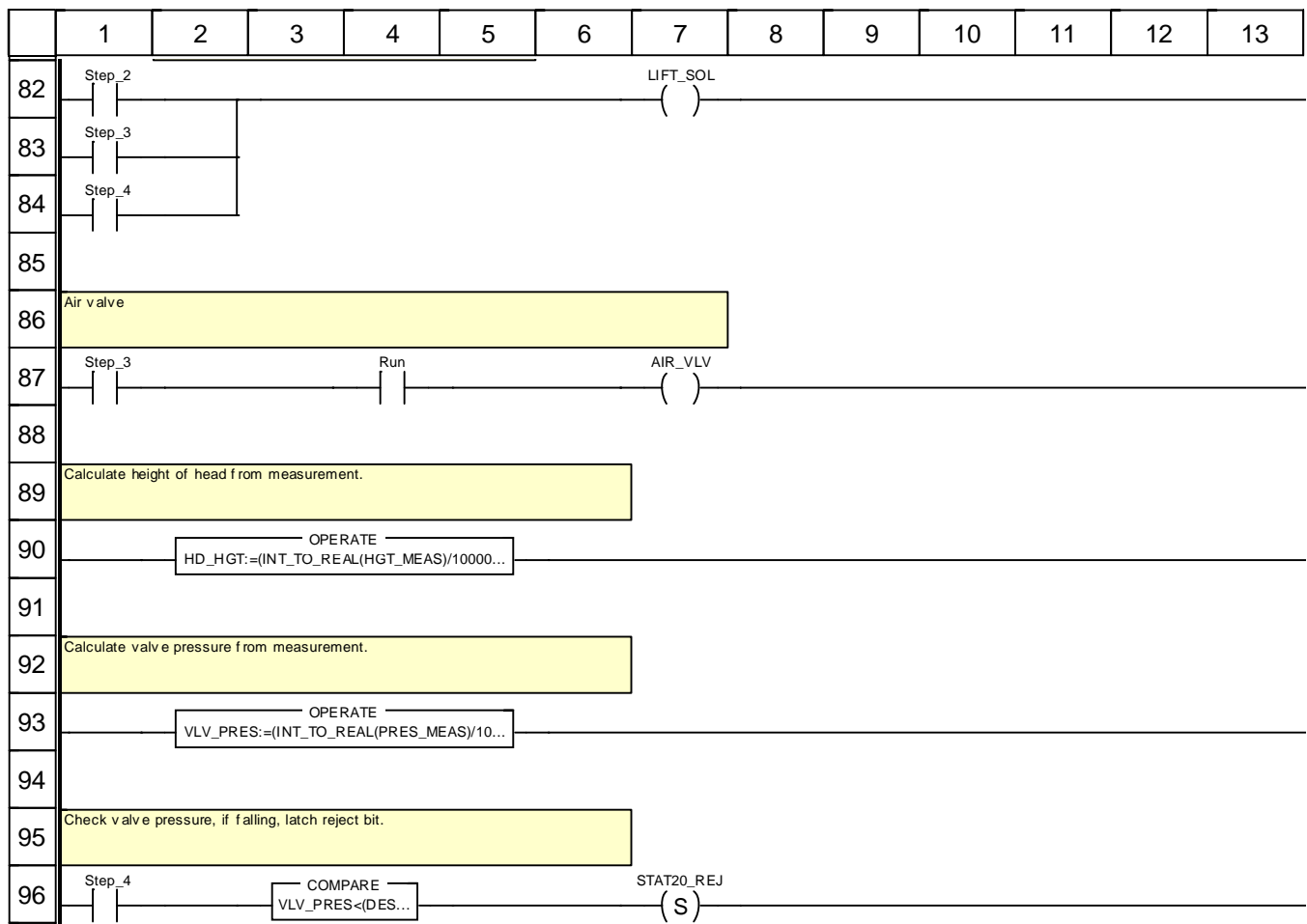
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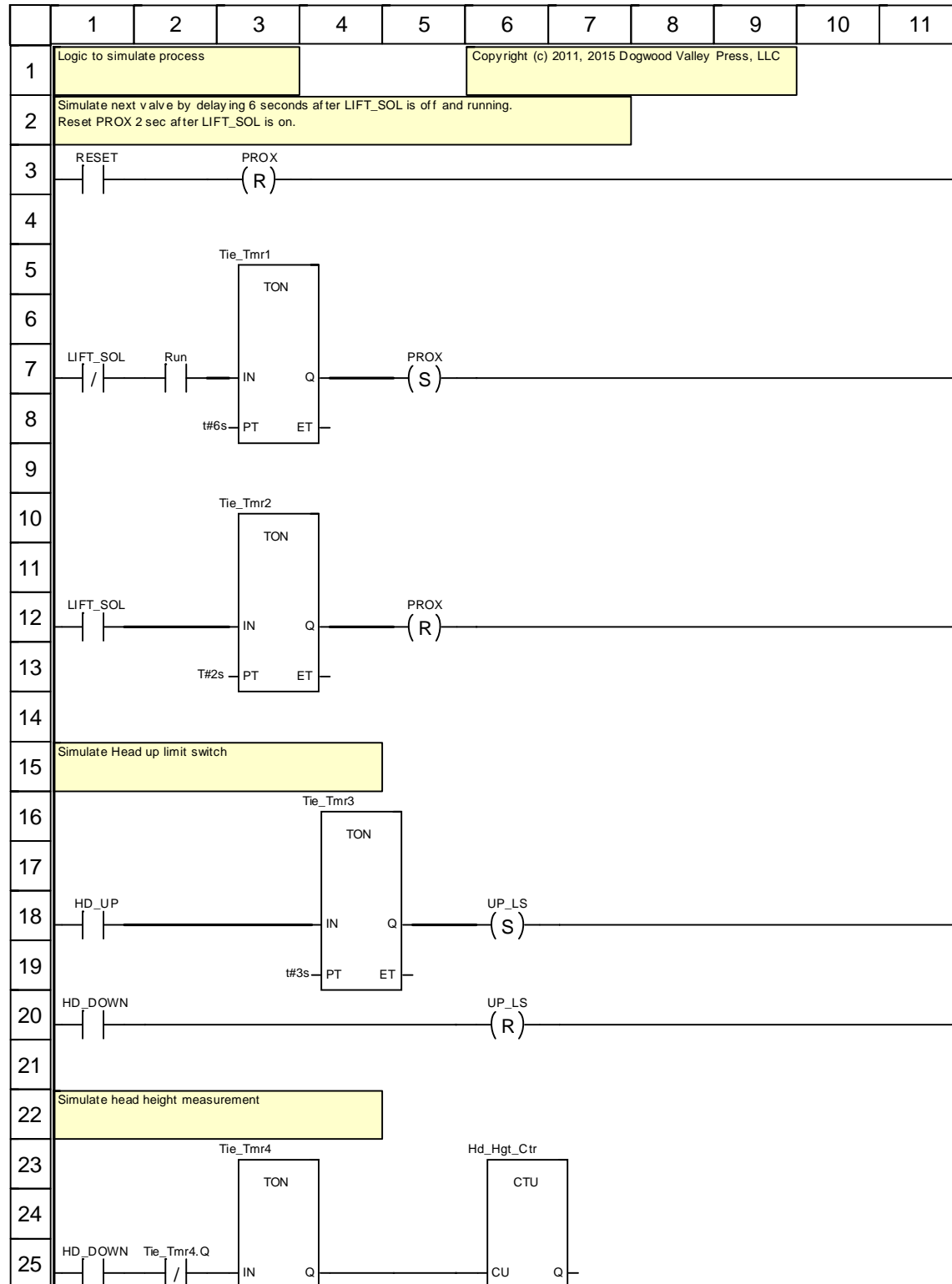


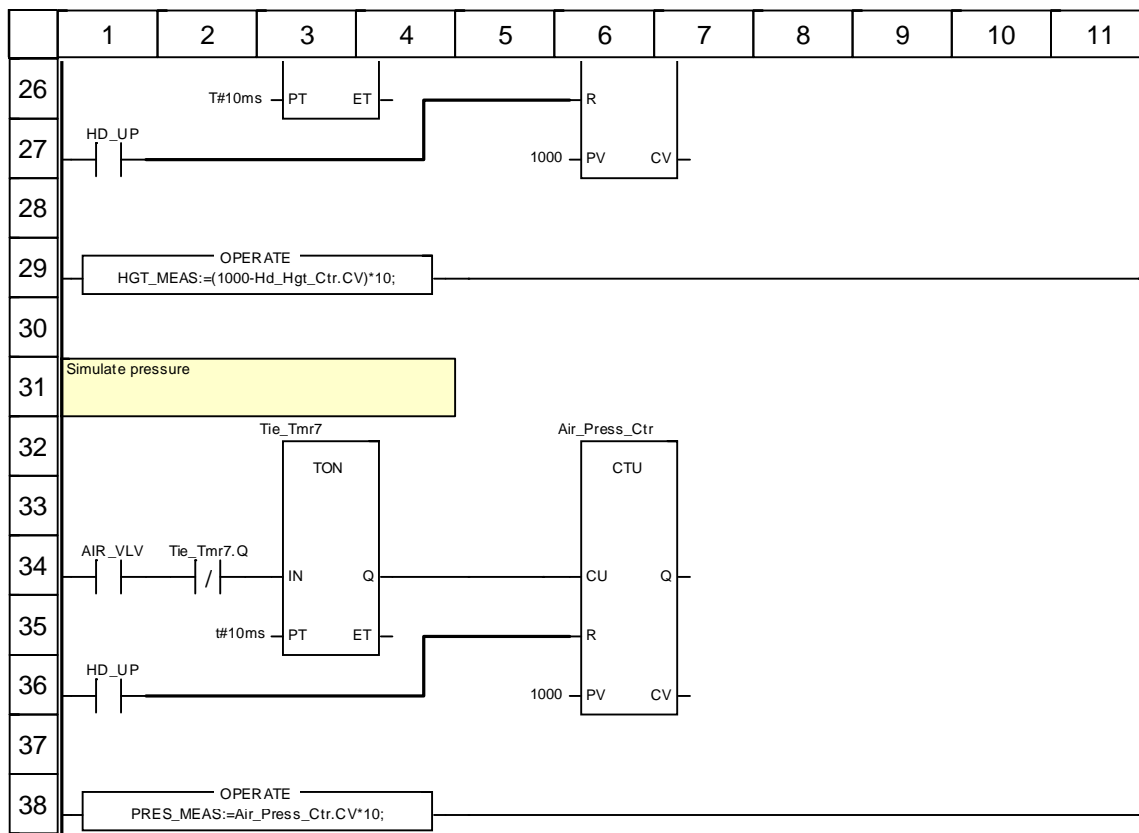
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Truncated labels:

Label	Position(s)
HD_HGT:=(INT_TO_REAL(HGT_MEAS)/10000.0)*(150.0-75.0)+75.0;	(2, 90)
HD_HGT<=VLV_HGT	(2, 32)
VLV_PRES:=(INT_TO_REAL(PRES_MEAS)/10000.0)*(100.0-0.0)+0.0;	(2, 93)
VLV_PRES<(DES_PRES-0.1)	(3, 96)
VLV_PRES>=DES_PRES	(2, 33)

Simulation : [MAST]





FAST

Specific properties

Configuration	Periodic
Task period configuration	5
Watchdog time configuration	100

Cross References

Application:

Addresses

Object	Referred into	Location	Usage
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Variables or FB instances

Object	Referred into	Location	Usage
Air_Press_Ctr	Simulation : [MAST]	(I 38, c: 1)	R
		(I 32, c: 6)	FC
AIR_VLV	Simulation : [MAST]	(I 34, c: 1)	R
	Main : [MAST]	(I 87, c: 7)	W
DES_PRES	Main : [MAST]	(I 33, c: 2)	R
		(I 96, c: 3)	R
Do_IShift	Main : [MAST]	(I 30, c: 11)	R
		(I 30, c: 12)	W
		(I 58, c: 2)	R
		(I 63, c: 2)	R
First_Start	Main : [MAST]	(I 7, c: 7)	W
		(I 30, c: 1)	R
		(I 64, c: 1)	R
HD_DOWN	Simulation : [MAST]	(I 20, c: 1)	R
		(I 25, c: 1)	R
	Main : [MAST]	(I 77, c: 7)	W
HD_HGT	Main : [MAST]	(I 32, c: 2)	R
		(I 90, c: 2)	W
Hd_Hgt_Ctr	Simulation : [MAST]	(I 29, c: 1)	R
		(I 23, c: 6)	FC
HD_UP	Simulation : [MAST]	(I 18, c: 1)	R
		(I 27, c: 1)	R
		(I 36, c: 1)	R
	Main : [MAST]	(I 78, c: 7)	W
HGT_MEAS	Simulation : [MAST]	(I 29, c: 1)	W
	Main : [MAST]	(I 90, c: 2)	R
Int_Reset	Main : [MAST]	(I 2, c: 2)	R
		(I 68, c: 1)	R
		(I 72, c: 4)	W
		(I 73, c: 1)	R
		(I 79, c: 1)	R
IStep	Main : [MAST]	(I 5, c: 2)	R
		(I 10, c: 3)	R
		(I 57, c: 4)	R
		(I 57, c: 4)	W
		(I 62, c: 4)	W
		(I 67, c: 4)	W
LIFT_SOL	Simulation : [MAST]	(I 7, c: 1)	R
		(I 12, c: 1)	R
	Main : [MAST]	(I 82, c: 7)	W
PRES_MEAS	Simulation : [MAST]	(I 38, c: 1)	W
	Main : [MAST]	(I 93, c: 2)	R
PROX	Simulation : [MAST]	(I 3, c: 3)	W
		(I 7, c: 5)	W
		(I 12, c: 5)	W

Cross References

Object	Referred into	Location	Usage
	Main : [MAST]	(l 31, c: 2)	R
		(l 39, c: 2)	R
RESET	Simulation : [MAST]	(l 3, c: 1)	R
RESET_PB	Main : [MAST]	(l 72, c: 1)	R
Run	Simulation : [MAST]	(l 7, c: 2)	R
	Main : [MAST]	(l 2, c: 5)	W
		(l 3, c: 1)	R
		(l 7, c: 4)	R
		(l 31, c: 4)	R
		(l 72, c: 2)	R
		(l 77, c: 3)	R
		(l 78, c: 3)	R
		(l 87, c: 4)	R
START_PB	Main : [MAST]	(l 2, c: 1)	R
STAT20_REJ	Main : [MAST]	(l 96, c: 7)	W
Step_1	Main : [MAST]	(l 12, c: 6)	W
		(l 31, c: 1)	R
Step_2	Main : [MAST]	(l 13, c: 6)	W
		(l 32, c: 1)	R
		(l 77, c: 1)	R
		(l 82, c: 1)	R
Step_3	Main : [MAST]	(l 14, c: 6)	W
		(l 33, c: 1)	R
		(l 83, c: 1)	R
		(l 87, c: 1)	R
Step_4	Main : [MAST]	(l 15, c: 6)	W
		(l 36, c: 1)	R
		(l 72, c: 3)	R
		(l 84, c: 1)	R
		(l 96, c: 1)	R
Step_5	Main : [MAST]	(l 16, c: 6)	W
		(l 38, c: 1)	R
		(l 78, c: 1)	R
Step_6	Main : [MAST]	(l 17, c: 6)	W
		(l 39, c: 1)	R
		(l 65, c: 1)	R
STOP_PB	Main : [MAST]	(l 2, c: 4)	R
Tie_Tmr1	Simulation : [MAST]	(l 5, c: 3)	FC
Tie_Tmr2	Simulation : [MAST]	(l 10, c: 3)	FC
Tie_Tmr3	Simulation : [MAST]	(l 16, c: 4)	FC
Tie_Tmr4	Simulation : [MAST]	(l 25, c: 2)	R
		(l 23, c: 3)	FC
Tie_Tmr7	Simulation : [MAST]	(l 34, c: 2)	R
		(l 32, c: 3)	FC
UP_LS	Simulation : [MAST]	(l 18, c: 6)	W
		(l 20, c: 6)	W
	Main : [MAST]	(l 38, c: 2)	R
		(l 73, c: 2)	R
		(l 79, c: 3)	R
VLV_HGT	Main : [MAST]	(l 32, c: 2)	R
VLV_PRES	Main : [MAST]	(l 33, c: 2)	R
		(l 93, c: 2)	W
		(l 96, c: 3)	R
Wait_Tmr	Main : [MAST]	(l 34, c: 6)	FC

EF objects

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	Dept.:		
	Project: SP9_9		Page: 15/17

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Cross References

Object	Referred into	Location	Usage
eq	Main : [MAST]	(l 5, c: 2)	FC
eq_word	Main : [MAST]	(l 5, c: 2)	FC
int_to_real	Main : [MAST]	(l 93, c: 2)	FC
		(l 90, c: 2)	FC
move	Main : [MAST]	(l 67, c: 4)	FC
set_bit	Main : [MAST]	(l 62, c: 4)	FC
shl_word	Main : [MAST]	(l 57, c: 4)	FC
word_to_bit	Main : [MAST]	(l 10, c: 3)	FC

Cross References

Seq_Trans:

Variables or FB instances

Object	Referred into	Location	Usage
Sequence	Main <DFB> : [Seq_Trans]	(l 2, c: 4)	R
		(l 2, c: 25)	R
		(l 3, c: 18)	R
		(l 3, c: 5)	W
		(l 4, c: 26)	R
		(l 4, c: 5)	W
		(l 5, c: 8)	R
		(l 6, c: 22)	R
		(l 6, c: 9)	W
		(l 9, c: 30)	R
		(l 9, c: 15)	R
		(l 11, c: 6)	R
		(l 12, c: 8)	R
		(l 13, c: 8)	R
		(l 15, c: 1)	W
		(l 16, c: 1)	W
StepCtr	Main <DFB> : [Seq_Trans]	(l 9, c: 1)	FC