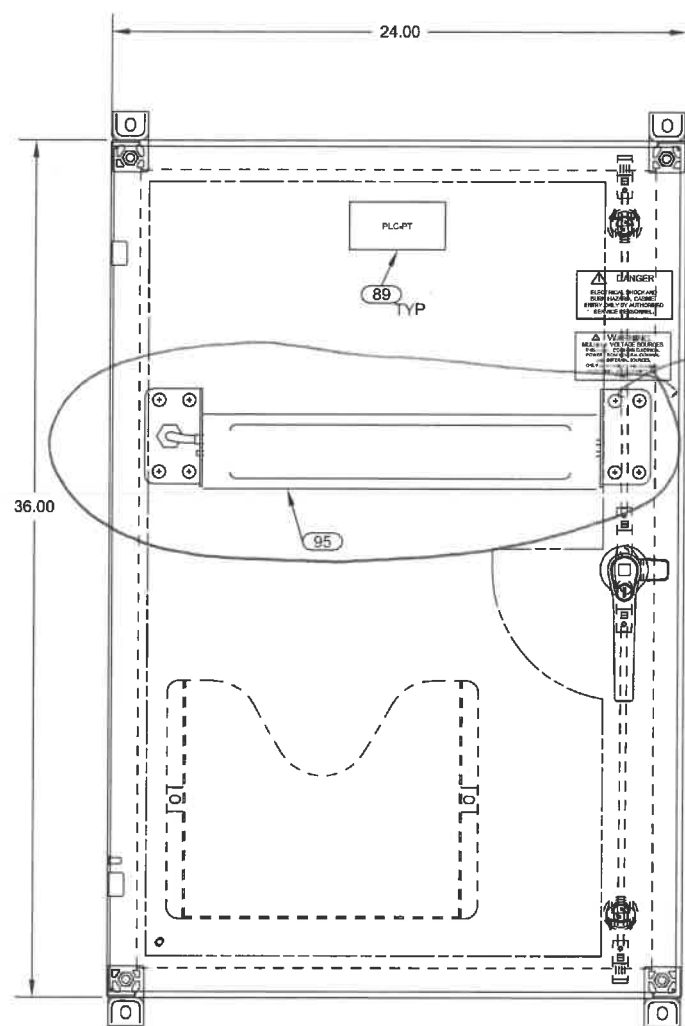
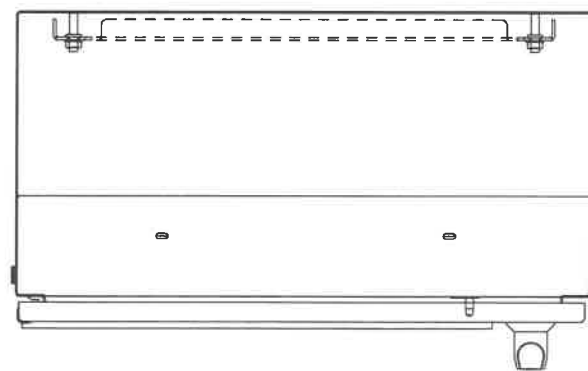


12/7/2022 C:\USERS\ENGINEER\KIMACUA\ENGINEERING\SPANISH FORK - 02\02.P. SF-WRF SOLIDS HANDLING RETROFIT\050 DRAFTING\999 INSTRUMENTATION\441998-4403 PLC-PT PANEL LAYOUT.DWG



PANEL FRONT VIEW

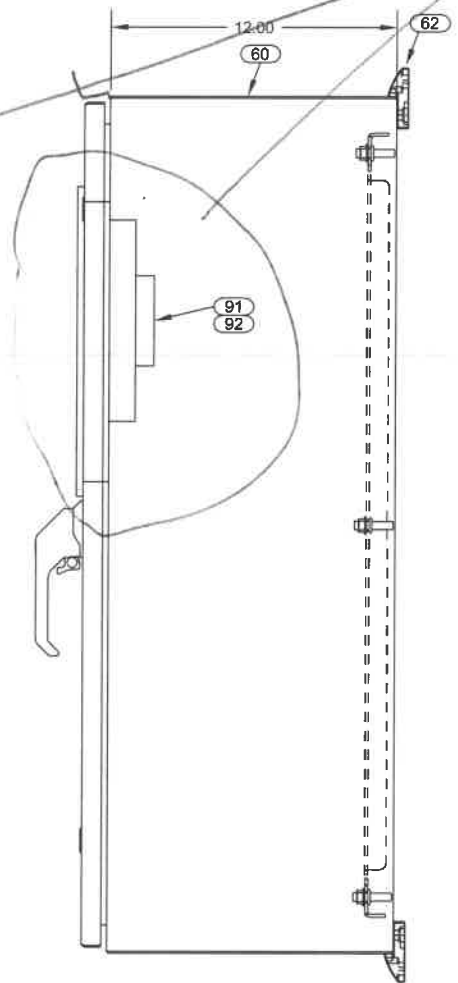


PANEL TOP VIEW

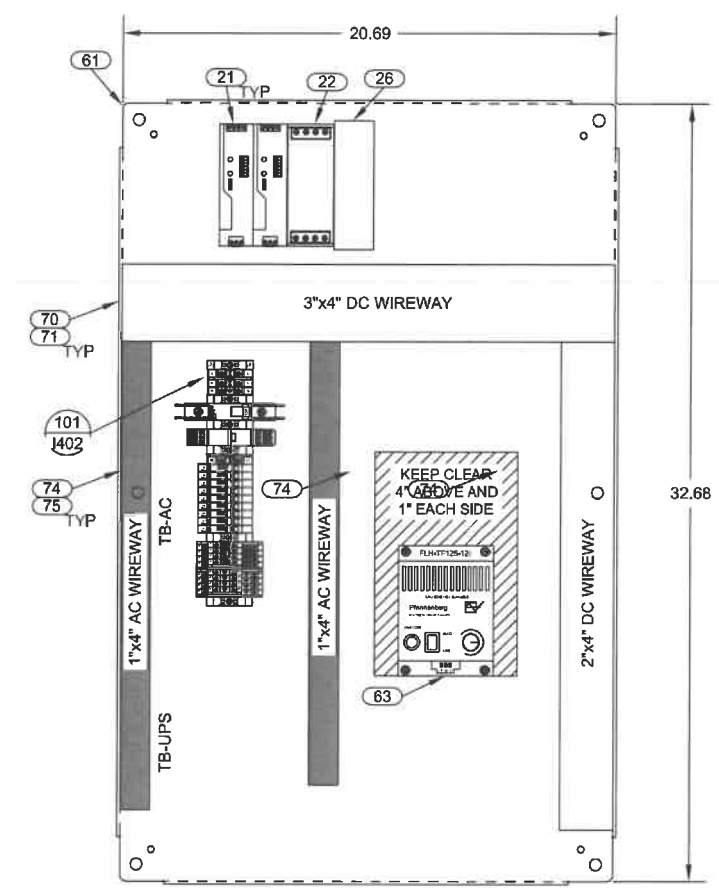
Include Dripshield

Delete

2x2



PANEL SIDE VIEW



BACKPANEL VIEW



PANEL LABELS

DRAWING IS TO SCALE IF BAR MEASURES: 1" = FULL SCALE 1/2" = HALF SCALE	
NO.	DATE
0	00/00/0000
ORIGINAL	DESIGN
	DRAWN
	CHECKED
REVISIONS	

SFWRFSOLIDS HANDLING
~~PRE-TREATMENT FACILITY~~
~~INSTRUMENTATION - PLC DRAWINGS~~
~~INSTRUMENTATION - PLC DRAWINGS~~
~~PLC-PT PANEL LAYOUT~~
Blower Network Panel

skm
 533 W 2600 S, Suite 25
 Bountiful, Utah 84010
 Phone: (801) 677-0011
 www.skmeng.com

DRAWING NO.
1403

SHEET

Name	Value	Data Type	Scope
Dummy	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>Dummy - MainProgram/L3101_AerationBlower1_VFD - *3(OTE)</i>			
<i>Dummy - MainProgram/L3201_AerationBlower2_VFD - *3(OTE)</i>			
FSR2106		FSR	PLC_SH
Screw Press Conveyor 1 FSR			
Constant	No		
External Access:	Read/Write		
<i>FSR2106 - MainProgram/L2106_ScrewPressConveyor1 - *13(FSR)</i>			
FSR2106.EnableIn	0	BOOL	
Screw Press Conveyor 1 FSR Enable Input - System Defined Parameter			
FSR2106.EnableOut	0	BOOL	
Screw Press Conveyor 1 FSR Enable Output - System Defined Parameter			
FSR2106.HMIAuto	0	BOOL	
Screw Press Conveyor 1 FSR HMI Auto			
<i>FSR2106.HMIAuto - MainProgram/L1100_PressControl - 3(XIO)</i>			
FSR2106.AutoForward	0	BOOL	
Screw Press Conveyor 1 FSR Auto Forward Command			
<i>FSR2106.AutoForward - MainProgram/L2106_ScrewPressConveyor1 - *11(OTE)</i>			
FSR2106.AutoStop	0	BOOL	
Screw Press Conveyor 1 FSR Auto Stop Command			
FSR2106.AutoReverse	0	BOOL	
Screw Press Conveyor 1 FSR Auto Reverse Command			
<i>FSR2106.AutoReverse - MainProgram/L2106_ScrewPressConveyor1 - *12(OTE)</i>			
FSR2106.HMIForward	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Forward			
FSR2106.HMISTop	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Stop			
FSR2106.HMIRreverse	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Reverse			
FSR2106.ForwardCmd	0	BOOL	
Screw Press Conveyor 1 FSR Forward Command			
<i>FSR2106.ForwardCmd - MainProgram/L2106_ScrewPressConveyor1 - 3(XIC), 5(XIC), 6(XIO)</i>			
FSR2106.StopCmd	1	BOOL	
Screw Press Conveyor 1 FSR Stop Command			
FSR2106.ReverseCmd	0	BOOL	
Screw Press Conveyor 1 FSR Reverse Command			
<i>FSR2106.ReverseCmd - MainProgram/L2106_ScrewPressConveyor1 - 4(XIC), 5(XIC), 6(XIO)</i>			
FSR2106.RestartActive	0	BOOL	
Screw Press Conveyor 1 FSR Restart Delay Active			
FSR2106.RestartPRE	2000	DINT	
Screw Press Conveyor 1 FSR Restart Delay Preset (Milliseconds)			
FSR2106.RestartTime	0	DINT	
Screw Press Conveyor 1 FSR Actual Restart Time (Times Down)			
FSR2206		FSR	PLC_SH
Screw Press Conveyor 2 FSR			
Constant	No		
External Access:	Read/Write		
<i>FSR2206 - MainProgram/L2206_ScrewPressConveyor2 - *13(FSR)</i>			
FSR2206.EnableIn	0	BOOL	
Screw Press Conveyor 2 FSR Enable Input - System Defined Parameter			
FSR2206.EnableOut	0	BOOL	
Screw Press Conveyor 2 FSR Enable Output - System Defined Parameter			
FSR2206.HMIAuto	0	BOOL	
Screw Press Conveyor 2 FSR HMI Auto			
<i>FSR2206.HMIAuto - MainProgram/L1100_PressControl - 4(XIO)</i>			
FSR2206.AutoForward	0	BOOL	
Screw Press Conveyor 2 FSR Auto Forward Command			
<i>FSR2206.AutoForward - MainProgram/L2206_ScrewPressConveyor2 - *11(OTE)</i>			
FSR2206.AutoStop	0	BOOL	

FSR2206 (Continued)			
Screw Press Conveyor 2 FSR Auto Stop Command			
FSR2206.AutoReverse	0	BOOL	
Screw Press Conveyor 2 FSR Auto Reverse Command			
<i>FSR2206.AutoReverse - MainProgram/L2206_ScrewPressConveyor2 - *12(OTE)</i>			
FSR2206.HMIForward	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Forward			
FSR2206.HMIStop	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Stop			
FSR2206.HMIReverse	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Reverse			
FSR2206.ForwardCmd	0	BOOL	
Screw Press Conveyor 2 FSR Forward Command			
<i>FSR2206.ForwardCmd - MainProgram/L2206_ScrewPressConveyor2 - 3(XIC), 5(XIC), 6(XIO)</i>			
FSR2206.StopCmd	1	BOOL	
Screw Press Conveyor 2 FSR Stop Command			
FSR2206.ReverseCmd	0	BOOL	
Screw Press Conveyor 2 FSR Reverse Command			
<i>FSR2206.ReverseCmd - MainProgram/L2206_ScrewPressConveyor2 - 4(XIC), 5(XIC), 6(XIO)</i>			
FSR2206.RestartActive	0	BOOL	
Screw Press Conveyor 2 FSR Restart Delay Active			
FSR2206.RestartPRE	2000	DINT	
Screw Press Conveyor 2 FSR Restart Delay Preset (Milliseconds)			
FSR2206.RestartTime	0	DINT	
Screw Press Conveyor 2 FSR Actual Restart Time (Times Down)			
HEART		HEART	PLC_SH
Heart Beat / Count			
Constant	No		
External Access:	Read/Write		
<i>HEART - MainProgram/MainRoutine - *1(HEART)</i>			
HEART.EnableIn	1	BOOL	
Heart Beat / Count Enable Input - System Defined Parameter			
HEART.EnableOut	1	BOOL	
Heart Beat / Count Enable Output - System Defined Parameter			
HEART.Beat	0	BOOL	
Heart Beat / Count			
<i>HEART.Beat - MainProgram/Communications - 0(XIC), 15(XIC)</i>			
HEART.Count	15076	DINT	
Heart Beat / Count			
<i>HEART.Count - MainProgram/Communications - 31(MOV)</i>			
HEART.BeatSP	0	DINT	
Heart Beat / Count Beat Set Point (Seconds)			
HS_PLC	0	BOOL	PLC_SH
HMI Clock Set			
Constant	No		
External Access:	Read/Write		
<i>HS_PLC - MainProgram/MainRoutine - *6(OTU), 6(XIC)</i>			
HS406T	0	BOOL	PLC_SH
Secondary Sludge Pumps Solids Handling Mode Enable			
Constant	No		
External Access:	Read/Write		
<i>HS406T - MainProgram/Communications - *38(OTE), 32(XIC), 32(XIO)</i>			
<i>HS406T - MainProgram/L1100_PressControl - 2(XIO)</i>			
HS1100A	0	BOOL	PLC_SH
Press 1 SCADA Start			
Constant	No		
External Access:	Read/Write		
<i>HS1100A - MainProgram/Communications - 1(XIC), 2(XIO)</i>			
<i>HS1100A - MainProgram/L1100_PressControl - *5(OTU), 5(XIC)</i>			
<i>HS1100A - MainProgram/L1101_SHT1_ControlValve - 12(XIC)</i>			

HS1100B	0	BOOL	PLC_SH
Press 2 SCADA Start			
Constant	No		
External Access:	Read/Write		
<i>HS1100B - MainProgram/Communications - 16(XIC), 17(XIO)</i>			
<i>HS1100B - MainProgram/L1100_PressControl - *6(OTU), 6(XIC)</i>			
<i>HS1100B - MainProgram/L1201_SHT2_ControlValve - 12(XIC)</i>			
HS1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1101 - MainProgram/L1101_SHT1_ControlValve - *9(OTU), 9(XIC)</i>			
HS1101A	0	BOOL	PLC_SH
Sludge Holding Tank 1 Level HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1101A - MainProgram/L1101_SHT1_Level - *4(OTU), 4(XIC)</i>			
HS1101AS	0	BOOL	PLC_SH
Sludge Holding Tank 1 Level HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1101AS - MainProgram/L1101_SHT1_Level - 1(XIC), 2(XIC), 3(XIC)</i>			
HS1101S	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1101S - MainProgram/L1101_SHT1_ControlValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
HS1102	0	BOOL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1102 - MainProgram/L1102_SHT1_BlanketLevel - *4(OTU), 4(XIC)</i>			
HS1102S	0	BOOL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1102S - MainProgram/L1102_SHT1_BlanketLevel - 1(XIC), 2(XIC), 3(XIC)</i>			
HS1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTU), 18(XIC)</i>			
HS1104A	0	BOOL	PLC_SH
Sludge Feed Pump 1 Speed Man/Auto (0=Man) (1=Auto)			
Constant	No		
External Access:	Read/Write		
<i>HS1104A - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC), 23(XIO)</i>			
HS1104S	0	BOOL	PLC_SH
Sludge Feed Pump 1 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS1104S - MainProgram/L1104_SludgeFeedPump1_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 17(XIC), 19(XIC), 8(XIC), 9(XIC)</i>			
HS1201	0	BOOL	PLC_SH

HS1201 (Continued)			
Solids Holding Tank 2 Control Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1201 - MainProgram/L1201_SHT2_ControlValve - *9(OTU), 9(XIC)</i>			
HS1201S	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1201S - MainProgram/L1201_SHT2_ControlValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
HS1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTU), 18(XIC)</i>			
HS1204A	0	BOOL	PLC_SH
Sludge Feed Pump 2 Speed Man/Auto (0=Man) (1=Auto)			
Constant	No		
External Access:	Read/Write		
<i>HS1204A - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC), 23(XIO)</i>			
HS1204S	0	BOOL	PLC_SH
Sludge Feed Pump 2 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS1204S - MainProgram/L1204_SludgeFeedPump2_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 17(XIC), 19(XIC), 8(XIC), 9(XIC)</i>			
HS2101	0	BOOL	PLC_SH
Press 1 Sludge Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2101 - MainProgram/L2101_Press1_SludgeValve - *9(OTU), 9(XIC)</i>			
HS2101S	0	BOOL	PLC_SH
Press 1 Sludge Valve HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS2101S - MainProgram/L2101_Press1_SludgeValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
HS2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2106 - MainProgram/L2106_ScrewPressConveyor1 - *8(OTU), 8(XIC)</i>			
HS2106S	0	BOOL	PLC_SH
Screw Press Conveyor 1 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS2106S - MainProgram/L2106_ScrewPressConveyor1 - 5(XIC), 6(XIC), 7(XIC), 9(XIC)</i>			
HS2201	0	BOOL	PLC_SH
Press 2 Sludge Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2201 - MainProgram/L2201_Press2_SludgeValve - *9(OTU), 9(XIC)</i>			
HS2201S	0	BOOL	PLC_SH
Press 2 Sludge Valve HMI Service			
Constant	No		

HS2201S (Continued)			
External Access:	Read/Write		
<i>HS2201S - MainProgram/L2201_Press2_SludgeValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
HS2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2206 - MainProgram/L2206_ScrewPressConveyor2 - *8(OTU), 8(XIC)</i>			
HS2206S	0	BOOL	PLC_SH
Screw Press Conveyor 2 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS2206S - MainProgram/L2206_ScrewPressConveyor2 - 5(XIC), 6(XIC), 7(XIC), 9(XIC)</i>			
HS3101	0	BOOL	PLC_SH
Aeration Blower 1 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS3101 - MainProgram/L3101_AerationBlower1_VFD - *17(OTU), 17(XIC)</i>			
HS3101S	0	BOOL	PLC_SH
Aeration Blower 1 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS3101S - MainProgram/L3101_AerationBlower1_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 18(XIC), 6(XIC), 7(XIC), 8(XIC), 9(XIC)</i>			
HS3103	0	BOOL	PLC_SH
Aeration Blower Pressure HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS3103 - MainProgram/L3103_AerBlower_Pressure - *4(OTU), 4(XIC)</i>			
HS3103S	0	BOOL	PLC_SH
Aeration Blower Pressure HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS3103S - MainProgram/L3103_AerBlower_Pressure - 1(XIC), 2(XIC), 3(XIC)</i>			
HS3201	0	BOOL	PLC_SH
Aeration Blower 2 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS3201 - MainProgram/L3201_AerationBlower2_VFD - *17(OTU), 17(XIC)</i>			
HS3201S	0	BOOL	PLC_SH
Aeration Blower 2 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS3201S - MainProgram/L3201_AerationBlower2_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 18(XIC), 6(XIC), 7(XIC), 8(XIC), 9(XIC)</i>			
IAH1104		ALRM	PLC_SH
Sludge Feed Pump 1 Overload			
Constant	No		
External Access:	Read/Write		
<i>IAH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *16(ALRM)</i>			
IAH1104.EnableIn	0	BOOL	
Sludge Feed Pump 1 Overload Enable Input - System Defined Parameter			
IAH1104.EnableOut	0	BOOL	
Sludge Feed Pump 1 Overload Enable Output - System Defined Parameter			
IAH1104.Latched	0	BOOL	

IAH1104 (Continued)

Sludge Feed Pump 1 Overload		
IAH1104.OperReset	0	BOOL
Sludge Feed Pump 1 Overload		
<i>IAH1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
IAH1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Overload		
IAH1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Overload		
IAH1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Overload		
IAH1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Overload Set to 1 to reset alarm count		
IAH1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Overload		
<i>IAH1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
IAH1104.Disabled	0	BOOL
Sludge Feed Pump 1 Overload		
IAH1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Overload		

IAH1204 ALRM PLC_SH

Sludge Feed Pump 2 Overload		
Constant	No	
External Access:	Read/Write	
<i>IAH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *16(ALRM)</i>		
IAH1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Overload Enable Input - System Defined Parameter		
IAH1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Overload Enable Output - System Defined Parameter		
IAH1204.Latched	0	BOOL
Sludge Feed Pump 2 Overload		
IAH1204.OperReset	0	BOOL
Sludge Feed Pump 2 Overload		
<i>IAH1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
IAH1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Overload		
IAH1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Overload		
IAH1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Overload		
IAH1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Overload Set to 1 to reset alarm count		
IAH1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Overload		
<i>IAH1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
IAH1204.Disabled	0	BOOL
Sludge Feed Pump 2 Overload		

IAH1204 (Continued)		
IAH1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Overload		
IAH3101		
Aeration Blower 1 Overload		ALRM
Constant		No
External Access:		Read/Write
<i>IAH3101 - MainProgram/L3101_AerationBlower1_VFD - *14(ALRM)</i>		
IAH3101.EnableIn	0	BOOL
Aeration Blower 1 Overload Enable Input - System Defined Parameter		
IAH3101.EnableOut	0	BOOL
Aeration Blower 1 Overload Enable Output - System Defined Parameter		
IAH3101.Latched	0	BOOL
Aeration Blower 1 Overload		
IAH3101.OperReset	0	BOOL
Aeration Blower 1 Overload		
<i>IAH3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
IAH3101.ProgReset	0	BOOL
Aeration Blower 1 Overload		
IAH3101.OperDisable	0	BOOL
Aeration Blower 1 Overload		
IAH3101.OperEnable	0	BOOL
Aeration Blower 1 Overload		
IAH3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Overload Set to 1 to reset alarm count		
IAH3101.InAlarm	0	BOOL
Aeration Blower 1 Overload		
<i>IAH3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
IAH3101.Disabled	0	BOOL
Aeration Blower 1 Overload		
IAH3101.MinDurationPRE	0	DINT
Aeration Blower 1 Overload		
IAH3101.MinDurationACC	0	DINT
Aeration Blower 1 Overload		
IAH3101.AlarmCount	0	DINT
Aeration Blower 1 Overload		
IAH3101.InAlarmDate	0	DINT
Aeration Blower 1 Overload		
IAH3101.InAlarmTime	0	DINT
Aeration Blower 1 Overload		
IAH3101.RetToNormalDate	0	DINT
Aeration Blower 1 Overload		
IAH3101.RetToNormalTime	0	DINT
Aeration Blower 1 Overload		
IAH3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Overload		
IAH3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Overload		

PLC_SH

IAH3101 (Continued)

Aeration Blower 1 Overload

IAH3201 ALRM PLC_SH

Aeration Blower 2 Overload

Constant No

External Access: Read/Write

*IAH3201 - MainProgram/L3201_AerationBlower2_VFD - *14(ALRM)*

IAH3201.EnableIn 0 BOOL

Aeration Blower 2 Overload Enable Input - System Defined Parameter

IAH3201.EnableOut 0 BOOL

Aeration Blower 2 Overload Enable Output - System Defined Parameter

IAH3201.Latched 0 BOOL

Aeration Blower 2 Overload

IAH3201.OperReset 0 BOOL

Aeration Blower 2 Overload

*IAH3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)*

IAH3201.ProgReset 0 BOOL

Aeration Blower 2 Overload

IAH3201.OperDisable 0 BOOL

Aeration Blower 2 Overload

IAH3201.OperEnable 0 BOOL

Aeration Blower 2 Overload

IAH3201.AlarmCountReset 0 BOOL

Aeration Blower 2 Overload Set to 1 to reset alarm count

IAH3201.InAlarm 0 BOOL

Aeration Blower 2 Overload

IAH3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)

IAH3201.Disabled 0 BOOL

Aeration Blower 2 Overload

IAH3201.MinDurationPRE 0 DINT

Aeration Blower 2 Overload

IAH3201.MinDurationACC 0 DINT

Aeration Blower 2 Overload

IAH3201.AlarmCount 0 DINT

Aeration Blower 2 Overload

IAH3201.InAlarmDate 0 DINT

Aeration Blower 2 Overload

IAH3201.InAlarmTime 0 DINT

Aeration Blower 2 Overload

IAH3201.RetToNormalDate 0 DINT

Aeration Blower 2 Overload

IAH3201.RetToNormalTime 0 DINT

Aeration Blower 2 Overload

IAH3201.AlarmCountResetDate 0 DINT

Aeration Blower 2 Overload

IAH3201.AlarmCountResetTime 0 DINT

Aeration Blower 2 Overload

IAL1104 ALRM PLC_SH

Sludge Feed Pump 1 Surge

Constant No

External Access: Read/Write

*IAL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *15(ALRM)*

IAL1104.EnableIn 0 BOOL

Sludge Feed Pump 1 Surge Enable Input - System Defined Parameter

IAL1104.EnableOut 0 BOOL

Sludge Feed Pump 1 Surge Enable Output - System Defined Parameter

IAL1104.Latched 0 BOOL

Sludge Feed Pump 1 Surge

IAL1104.OperReset 0 BOOL

Sludge Feed Pump 1 Surge

*IAL1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)*

IAL1104.ProgReset 0 BOOL

IAL1104 (Continued)		
Sludge Feed Pump 1 Surge		
IAL1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Surge		
IAL1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Surge		
IAL1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Surge Set to 1 to reset alarm count		
IAL1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Surge		
<i>IAL1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
IAL1104.Disabled	0	BOOL
Sludge Feed Pump 1 Surge		
IAL1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Surge		
IAL1204		ALRM PLC_SH
Sludge Feed Pump 2 Surge		
Constant	No	
External Access:	Read/Write	
<i>IAL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *15(ALRM)</i>		
IAL1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Surge Enable Input - System Defined Parameter		
IAL1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Surge Enable Output - System Defined Parameter		
IAL1204.Latched	0	BOOL
Sludge Feed Pump 2 Surge		
IAL1204.OperReset	0	BOOL
Sludge Feed Pump 2 Surge		
<i>IAL1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
IAL1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Surge		
IAL1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Surge		
IAL1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Surge		
IAL1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Surge Set to 1 to reset alarm count		
IAL1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Surge		
<i>IAL1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
IAL1204.Disabled	0	BOOL
Sludge Feed Pump 2 Surge		
IAL1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.AlarmCount	0	DINT

IAL1204 (Continued)

Sludge Feed Pump 2 Surge		
IAL1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Surge		

IAL3101 ALRM PLC_SH

Aeration Blower 1 Surge		
Constant	No	
External Access:	Read/Write	
<i>IAL3101 - MainProgram/L3101_AerationBlower1_VFD - *13(ALRM)</i>		
IAL3101.EnableIn	0	BOOL
Aeration Blower 1 Surge Enable Input - System Defined Parameter		
IAL3101.EnableOut	0	BOOL
Aeration Blower 1 Surge Enable Output - System Defined Parameter		
IAL3101.Latched	0	BOOL
Aeration Blower 1 Surge		
IAL3101.OperReset	0	BOOL
Aeration Blower 1 Surge		
<i>IAL3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
IAL3101.ProgReset	0	BOOL
Aeration Blower 1 Surge		
IAL3101.OperDisable	0	BOOL
Aeration Blower 1 Surge		
IAL3101.OperEnable	0	BOOL
Aeration Blower 1 Surge		
IAL3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Surge Set to 1 to reset alarm count		
IAL3101.InAlarm	0	BOOL
Aeration Blower 1 Surge		
<i>IAL3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
IAL3101.Disabled	0	BOOL
Aeration Blower 1 Surge		
IAL3101.MinDurationPRE	0	DINT
Aeration Blower 1 Surge		
IAL3101.MinDurationACC	0	DINT
Aeration Blower 1 Surge		
IAL3101.AlarmCount	0	DINT
Aeration Blower 1 Surge		
IAL3101.InAlarmDate	0	DINT
Aeration Blower 1 Surge		
IAL3101.InAlarmTime	0	DINT
Aeration Blower 1 Surge		
IAL3101.RetToNormalDate	0	DINT
Aeration Blower 1 Surge		
IAL3101.RetToNormalTime	0	DINT
Aeration Blower 1 Surge		
IAL3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Surge		
IAL3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Surge		

IAL3201 ALRM PLC_SH

Aeration Blower 2 Surge		
Constant	No	

IAL3201 (Continued)			
External Access:	Read/Write		
<i>IAL3201 - MainProgram/L3201_AerationBlower2_VFD - *13(ALRM)</i>			
IAL3201.EnableIn	0	BOOL	
Aeration Blower 2 Surge Enable Input - System Defined Parameter			
IAL3201.EnableOut	0	BOOL	
Aeration Blower 2 Surge Enable Output - System Defined Parameter			
IAL3201.Latched	0	BOOL	
Aeration Blower 2 Surge			
IAL3201.OperReset	0	BOOL	
Aeration Blower 2 Surge			
<i>IAL3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
IAL3201.ProgReset	0	BOOL	
Aeration Blower 2 Surge			
IAL3201.OperDisable	0	BOOL	
Aeration Blower 2 Surge			
IAL3201.OperEnable	0	BOOL	
Aeration Blower 2 Surge			
IAL3201.AlarmCountReset	0	BOOL	
Aeration Blower 2 Surge Set to 1 to reset alarm count			
IAL3201.InAlarm	0	BOOL	
Aeration Blower 2 Surge			
<i>IAL3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>			
IAL3201.Disabled	0	BOOL	
Aeration Blower 2 Surge			
IAL3201.MinDurationPRE	0	DINT	
Aeration Blower 2 Surge			
IAL3201.MinDurationACC	0	DINT	
Aeration Blower 2 Surge			
IAL3201.AlarmCount	0	DINT	
Aeration Blower 2 Surge			
IAL3201.InAlarmDate	0	DINT	
Aeration Blower 2 Surge			
IAL3201.InAlarmTime	0	DINT	
Aeration Blower 2 Surge			
IAL3201.RetToNormalDate	0	DINT	
Aeration Blower 2 Surge			
IAL3201.RetToNormalTime	0	DINT	
Aeration Blower 2 Surge			
IAL3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Surge			
IAL3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Surge			
ISH1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 16(XIC)</i>			
ISH1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 16(XIC)</i>			
ISH3101	0	BOOL	PLC_SH
Aeration Blower 1			
Overstand	No		
External Access:	Read/Write		
<i>ISH3101 - MainProgram/L3101_AerationBlower1_VFD - 14(XIC)</i>			
ISH3201	0	BOOL	PLC_SH

ISH3201 (Continued)			
Aeration Blower 2			
Overload	No		
External Access:	Read/Write		
<i>ISH3201 - MainProgram/L3201_AerationBlower2_VFD - 14(XIC)</i>			
ISL1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Surge			
Constant	No		
External Access:	Read/Write		
<i>ISL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 15(XIC)</i>			
ISL1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Surge			
Constant	No		
External Access:	Read/Write		
<i>ISL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 15(XIC)</i>			
ISL3101	0	BOOL	PLC_SH
Aeration Blower 1 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISL3101 - MainProgram/L3101_AerationBlower1_VFD - 13(XIC)</i>			
ISL3201	0	BOOL	PLC_SH
Aeration Blower 2 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISL3201 - MainProgram/L3201_AerationBlower2_VFD - 13(XIC)</i>			
JA_PLC		ALRM	PLC_SH
PLC Battery Low			
Constant	No		
External Access:	Read/Write		
<i>JA_PLC - MainProgram/MainRoutine - *2(ALRM)</i>			
JA_PLC.EnableIn	0	BOOL	
PLC Battery Low Enable Input - System Defined Parameter			
JA_PLC.EnableOut	0	BOOL	
PLC Battery Low Enable Output - System Defined Parameter			
JA_PLC.Latched	0	BOOL	
PLC Battery Low			
JA_PLC.OperReset	0	BOOL	
PLC Battery Low			
JA_PLC.ProgReset	0	BOOL	
PLC Battery Low			
JA_PLC.OperDisable	0	BOOL	
PLC Battery Low			
JA_PLC.OperEnable	0	BOOL	
PLC Battery Low			
JA_PLC.AlarmCountReset	0	BOOL	
PLC Battery Low Set to 1 to reset alarm count			
JA_PLC.InAlarm	0	BOOL	
PLC Battery Low			
JA_PLC.Disabled	0	BOOL	
PLC Battery Low			
JA_PLC.MinDurationPRE	0	DINT	
PLC Battery Low			
JA_PLC.MinDurationACC	0	DINT	
PLC Battery Low			
JA_PLC.AlarmCount	0	DINT	
PLC Battery Low			
JA_PLC.InAlarmDate	0	DINT	
PLC Battery Low			
JA_PLC.InAlarmTime	0	DINT	

JA_PLC (Continued)			
PLC Battery Low			
JA_PLC.RetToNormalDate	0		DINT
PLC Battery Low			
JA_PLC.RetToNormalTime	0		DINT
PLC Battery Low			
JA_PLC.AlarmCountResetDate	0		DINT
PLC Battery Low			
JA_PLC.AlarmCountResetTime	0		DINT
PLC Battery Low			
JA_SH		ALRM	PLC_SH
SPD Fail Alarm			
Constant No			
External Access: Read/Write			
<i>JA_SH - MainProgram/L0000_Power - *7(ALRM)</i>			
JA_SH.EnableIn	0		BOOL
SPD Fail Alarm Enable Input - System Defined Parameter			
JA_SH.EnableOut	0		BOOL
SPD Fail Alarm Enable Output - System Defined Parameter			
JA_SH.Latched	0		BOOL
SPD Fail Alarm			
JA_SH.OperReset	0		BOOL
SPD Fail Alarm			
JA_SH.ProgReset	0		BOOL
SPD Fail Alarm			
JA_SH.OperDisable	0		BOOL
SPD Fail Alarm			
JA_SH.OperEnable	0		BOOL
SPD Fail Alarm			
JA_SH.AlarmCountReset	0		BOOL
SPD Fail Alarm Set to 1 to reset alarm count			
JA_SH.InAlarm	0		BOOL
SPD Fail Alarm			
JA_SH.Disabled	0		BOOL
SPD Fail Alarm			
JA_SH.MinDurationPRE	5000		DINT
SPD Fail Alarm			
JA_SH.MinDurationACC	0		DINT
SPD Fail Alarm			
JA_SH.AlarmCount	2		DINT
SPD Fail Alarm			
JA_SH.InAlarmDate	1011998		DINT
SPD Fail Alarm			
JA_SH.InAlarmTime	1032		DINT
SPD Fail Alarm			
JA_SH.RetToNormalDate	10272022		DINT
SPD Fail Alarm			
JA_SH.RetToNormalTime	120926		DINT
SPD Fail Alarm			
JA_SH.AlarmCountResetDate	0		DINT
SPD Fail Alarm			
JA_SH.AlarmCountResetTime	0		DINT
SPD Fail Alarm			
JA_SH_A		ALRM	PLC_SH
DC Power Supply A Fail Alarm			
Constant No			
External Access: Read/Write			
<i>JA_SH_A - MainProgram/L0000_Power - *8(ALRM)</i>			
JA_SH_A.EnableIn	0		BOOL
DC Power Supply A Fail Alarm Enable Input - System Defined Parameter			
JA_SH_A.EnableOut	0		BOOL
DC Power Supply A Fail Alarm Enable Output - System Defined Parameter			

JA_SH_A (Continued)		
JA_SH_A.Latched	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.OperReset	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.ProgReset	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.OperDisable	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.OperEnable	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCountReset	0	BOOL
DC Power Supply A Fail Alarm Set to 1 to reset alarm count		
JA_SH_A.InAlarm	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.Disabled	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.MinDurationPRE	5000	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.MinDurationACC	5000	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCount	4	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.InAlarmDate	1011998	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.InAlarmTime	3222	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.RetToNormalDate	10272022	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.RetToNormalTime	120926	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCountResetDate	0	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCountResetTime	0	DINT
DC Power Supply A Fail Alarm		
JA_SH_B		ALRM
DC Power Supply B Fail Alarm		
Constant	No	
External Access:	Read/Write	
<i>JA_SH_B - MainProgram/L0000_Power - *9(ALRM)</i>		
JA_SH_B.EnableIn	0	BOOL
DC Power Supply B Fail Alarm Enable Input - System Defined Parameter		
JA_SH_B.EnableOut	0	BOOL
DC Power Supply B Fail Alarm Enable Output - System Defined Parameter		
JA_SH_B.Latched	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.OperReset	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.ProgReset	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.OperDisable	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.OperEnable	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCountReset	0	BOOL
DC Power Supply B Fail Alarm Set to 1 to reset alarm count		
JA_SH_B.InAlarm	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.Disabled	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.MinDurationPRE	5000	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.MinDurationACC	5000	DINT

PLC_SH

JA_SH_B (Continued)		
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCount	3	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.InAlarmDate	1011998	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.InAlarmTime	3222	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.RefToNormalDate	10272022	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.RetToNormalTime	120926	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCountResetDate	0	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCountResetTime	0	DINT
DC Power Supply B Fail Alarm		
JA_UPSA		ALRM
UPS Fail Alarm		
Constant	No	
External Access:	Read/Write	
<i>JA_UPSA - MainProgram/L0000_Power - *10(ALRM)</i>		
JA_UPSA.EnableIn	0	BOOL
UPS Fail Alarm Enable Input - System Defined Parameter		
JA_UPSA.EnableOut	0	BOOL
UPS Fail Alarm Enable Output - System Defined Parameter		
JA_UPSA.Latched	0	BOOL
UPS Fail Alarm		
JA_UPSA.OperReset	0	BOOL
UPS Fail Alarm		
JA_UPSA.ProgReset	0	BOOL
UPS Fail Alarm		
JA_UPSA.OperDisable	0	BOOL
UPS Fail Alarm		
JA_UPSA.OperEnable	0	BOOL
UPS Fail Alarm		
JA_UPSA.AlarmCountReset	0	BOOL
UPS Fail Alarm Set to 1 to reset alarm count		
JA_UPSA.InAlarm	0	BOOL
UPS Fail Alarm		
JA_UPSA.Disabled	0	BOOL
UPS Fail Alarm		
JA_UPSA.MinDurationPRE	5000	DINT
UPS Fail Alarm		
JA_UPSA.MinDurationACC	0	DINT
UPS Fail Alarm		
JA_UPSA.AlarmCount	1	DINT
UPS Fail Alarm		
JA_UPSA.InAlarmDate	1011998	DINT
UPS Fail Alarm		
JA_UPSA.InAlarmTime	144	DINT
UPS Fail Alarm		
JA_UPSA.RetToNormalDate	10272022	DINT
UPS Fail Alarm		
JA_UPSA.RetToNormalTime	120926	DINT
UPS Fail Alarm		
JA_UPSA.AlarmCountResetDate	0	DINT
UPS Fail Alarm		
JA_UPSA.AlarmCountResetTime	0	DINT
UPS Fail Alarm		
JA_UPSB		ALRM
UPS On Battery Alarm		
Constant	No	

PLC_SH

PLC_SH

JA_UPSB (Continued)

External Access:	Read/Write	
<i>JA_UPSB - MainProgram/L0000_Power - *11(ALRM)</i>		
JA_UPSB.EnableIn	0	BOOL
UPS On Battery Alarm Enable Input - System Defined Parameter		
JA_UPSB.EnableOut	0	BOOL
UPS On Battery Alarm Enable Output - System Defined Parameter		
JA_UPSB.Latched	0	BOOL
UPS On Battery Alarm		
JA_UPSB.OperReset	0	BOOL
UPS On Battery Alarm		
JA_UPSB.ProgReset	0	BOOL
UPS On Battery Alarm		
JA_UPSB.OperDisable	0	BOOL
UPS On Battery Alarm		
JA_UPSB.OperEnable	0	BOOL
UPS On Battery Alarm		
JA_UPSB.AlarmCountReset	0	BOOL
UPS On Battery Alarm Set to 1 to reset alarm count		
JA_UPSB.InAlarm	0	BOOL
UPS On Battery Alarm		
JA_UPSB.Disabled	0	BOOL
UPS On Battery Alarm		
JA_UPSB.MinDurationPRE	5000	DINT
UPS On Battery Alarm		
JA_UPSB.MinDurationACC	5000	DINT
UPS On Battery Alarm		
JA_UPSB.AlarmCount	3	DINT
UPS On Battery Alarm		
JA_UPSB.InAlarmDate	1011998	DINT
UPS On Battery Alarm		
JA_UPSB.InAlarmTime	3223	DINT
UPS On Battery Alarm		
JA_UPSB.RefToNormalDate	10272022	DINT
UPS On Battery Alarm		
JA_UPSB.RefToNormalTime	120926	DINT
UPS On Battery Alarm		
JA_UPSB.AlarmCountResetDate	0	DINT
UPS On Battery Alarm		
JA_UPSB.AlarmCountResetTime	0	DINT
UPS On Battery Alarm		

JAHH1101 ALRM PLC_SH

Solids Holding Tank 1 Control Valve Alarm High High Torque End		
Constant	No	
External Access:	Read/Write	
<i>JAHH1101 - MainProgram/L1101_SHT1_ControlValve - *8(ALRM)</i>		
JAHH1101.EnableIn	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End Enable Input - System Defined Parameter		
JAHH1101.EnableOut	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End Enable Output - System Defined Parameter		
JAHH1101.Latched	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.OperReset	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
<i>JAHH1101.OperReset - MainProgram/L1101_SHT1_ControlValve - *9(OTL)</i>		
JAHH1101.ProgReset	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.OperDisable	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.OperEnable	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.AlarmCountReset	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End Set to 1 to reset alarm count		

JAHH1101 (Continued)

JAHH1101.InAlarm	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
<i>JAHH1101.InAlarm - MainProgram/L1101_SHT1_ControlValve - 10(XIO)</i>		
JAHH1101.Disabled	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.MinDurationPRE	5000	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.MinDurationACC	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.AlarmCount	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.InAlarmDate	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.InAlarmTime	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.RetToNormalDate	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.RetToNormalTime	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.AlarmCountResetDate	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.AlarmCountResetTime	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		

JAHH1201 ALRM PLC_SH

Solids Holding Tank 2 Control Valve Alarm High High Torque End		
Constant	No	
External Access:	Read/Write	
<i>JAHH1201 - MainProgram/L1201_SHT2_ControlValve - *8(ALRM)</i>		
JAHH1201.EnableIn	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End Enable Input - System Defined Parameter		
JAHH1201.EnableOut	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End Enable Output - System Defined Parameter		
JAHH1201.Latched	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.OperReset	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
<i>JAHH1201.OperReset - MainProgram/L1201_SHT2_ControlValve - *9(OTL)</i>		
JAHH1201.ProgReset	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.OperDisable	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.OperEnable	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.AlarmCountReset	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End Set to 1 to reset alarm count		
JAHH1201.InAlarm	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
<i>JAHH1201.InAlarm - MainProgram/L1201_SHT2_ControlValve - 10(XIO)</i>		
JAHH1201.Disabled	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.MinDurationPRE	5000	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.MinDurationACC	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.AlarmCount	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.InAlarmDate	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.InAlarmTime	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.RetToNormalDate	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		

JAHH1201 (Continued)

JAHH1201.RetToNormalTime 0 DINT
 Solids Holding Tank 2 Control Valve Alarm High High Torque End
JAHH1201.AlarmCountResetDate 0 DINT
 Solids Holding Tank 2 Control Valve Alarm High High Torque End
JAHH1201.AlarmCountResetTime 0 DINT
 Solids Holding Tank 2 Control Valve Alarm High High Torque End

JAHH2101 ALRM PLC_SH

Press 1 Sludge Valve Alarm High High Torque End
 Constant No
 External Access: Read/Write
*JAHH2101 - MainProgram/L2101_Press1_SludgeValve - *8(ALRM)*
JAHH2101.EnableIn 0 BOOL
 Press 1 Sludge Valve Alarm High High Torque End Enable Input - System Defined Parameter
JAHH2101.EnableOut 0 BOOL
 Press 1 Sludge Valve Alarm High High Torque End Enable Output - System Defined Parameter
JAHH2101.Latched 0 BOOL
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.OperReset 0 BOOL
 Press 1 Sludge Valve Alarm High High Torque End
*JAHH2101.OperReset - MainProgram/L2101_Press1_SludgeValve - *9(OTL)*
JAHH2101.ProgReset 0 BOOL
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.OperDisable 0 BOOL
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.OperEnable 0 BOOL
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.AlarmCountReset 0 BOOL
 Press 1 Sludge Valve Alarm High High Torque End Set to 1 to reset alarm count
JAHH2101.InAlarm 0 BOOL
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.InAlarm - MainProgram/L2101_Press1_SludgeValve - 10(XIO)
JAHH2101.Disabled 0 BOOL
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.MinDurationPRE 5000 DINT
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.MinDurationACC 0 DINT
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.AlarmCount 0 DINT
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.InAlarmDate 0 DINT
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.InAlarmTime 0 DINT
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.RetToNormalDate 0 DINT
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.RetToNormalTime 0 DINT
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.AlarmCountResetDate 0 DINT
 Press 1 Sludge Valve Alarm High High Torque End
JAHH2101.AlarmCountResetTime 0 DINT
 Press 1 Sludge Valve Alarm High High Torque End

JAHH2201 ALRM PLC_SH

Press 2 Sludge Valve Alarm High High Torque End
 Constant No
 External Access: Read/Write
*JAHH2201 - MainProgram/L2201_Press2_SludgeValve - *8(ALRM)*
JAHH2201.EnableIn 0 BOOL
 Press 2 Sludge Valve Alarm High High Torque End Enable Input - System Defined Parameter
JAHH2201.EnableOut 0 BOOL
 Press 2 Sludge Valve Alarm High High Torque End Enable Output - System Defined Parameter
JAHH2201.Latched 0 BOOL

JAHH2201 (Continued)			
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.OperReset	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
<i>JAHH2201.OperReset - MainProgram/L2201_Press2_SludgeValve - *9(OTL)</i>			
JAHH2201.ProgReset	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.OperDisable	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.OperEnable	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCountReset	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End Set to 1 to reset alarm count			
JAHH2201.InAlarm	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
<i>JAHH2201.InAlarm - MainProgram/L2201_Press2_SludgeValve - 10(XIO)</i>			
JAHH2201.Disabled	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.MinDurationPRE	5000	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.MinDurationACC	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCount	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.InAlarmDate	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.InAlarmTime	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.RetToNormalDate	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.RetToNormalTime	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCountResetDate	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCountResetTime	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JS_SH	0	BOOL	PLC_SH
SPD Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_SH - MainProgram/L0000_Power - *1(OTE), 7(XIC)</i>			
JS_SH_A	0	BOOL	PLC_SH
DC Power Supply A Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_SH_A - MainProgram/L0000_Power - *2(OTE), 8(XIC)</i>			
JS_SH_B	0	BOOL	PLC_SH
DC Power Supply B Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_SH_B - MainProgram/L0000_Power - *3(OTE), 9(XIC)</i>			
JS_UPSA	0	BOOL	PLC_SH
UPS Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_UPSA - MainProgram/L0000_Power - *4(OTE), 10(XIC)</i>			
JS_UPSB	0	BOOL	PLC_SH
UPS On Battery			
Constant	No		

JS_UPSB (Continued)			
External Access:	Read/Write		
<i>JS_UPSB - MainProgram/L0000_Power - *5(OTE), 11(XIC)</i>			
JSHH1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH1101 - MainProgram/L1101_SHT1_ControlValve - *3(OTE), 8(XIC)</i>			
JSHH1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH1201 - MainProgram/L1201_SHT2_ControlValve - *3(OTE), 8(XIC)</i>			
JSHH2101	0	BOOL	PLC_SH
Press 1 Sludge Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH2101 - MainProgram/L2101_Press1_SludgeValve - *3(OTE), 8(XIC)</i>			
JSHH2201	0	BOOL	PLC_SH
Press 2 Sludge Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH2201 - MainProgram/L2201_Press2_SludgeValve - *3(OTE), 8(XIC)</i>			
KA_PRESS1		ALRM	PLC_SH
PLC-PRESS1 Comm Fault			
Constant	No		
External Access:	Read/Write		
<i>KA_PRESS1 - MainProgram/Communications - *12(ALRM)</i>			
KA_PRESS1.EnableIn	1	BOOL	
PLC-PRESS1 Comm Fault Enable Input - System Defined Parameter			
KA_PRESS1.EnableOut	1	BOOL	
PLC-PRESS1 Comm Fault Enable Output - System Defined Parameter			
KA_PRESS1.Latched	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperReset	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.ProgReset	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperDisable	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperEnable	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.AlarmCountReset	0	BOOL	
PLC-PRESS1 Comm Fault Set to 1 to reset alarm count			
KA_PRESS1.InAlarm	0	BOOL	
PLC-PRESS1 Comm Fault			
<i>KA_PRESS1.InAlarm - MainProgram/L1100_PressControl - 3(XIC)</i>			
KA_PRESS1.Disabled	1	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.MinDurationPRE	60000	DINT	
PLC-PRESS1 Comm Fault			
KA_PRESS1.MinDurationACC	60000	DINT	
PLC-PRESS1 Comm Fault			
KA_PRESS1.AlarmCount	4	DINT	
PLC-PRESS1 Comm Fault			
KA_PRESS1.InAlarmDate	10272022	DINT	
PLC-PRESS1 Comm Fault			
KA_PRESS1.InAlarmTime	121031	DINT	
PLC-PRESS1 Comm Fault			

KA_PRESS1 (Continued)		
KA_PRESS1.RetToNormalDate	10312022	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.RetToNormalTime	112117	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.AlarmCountResetDate	0	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.AlarmCountResetTime	0	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS2		ALRM
PLC-PRESS2 Comm Fault		
Constant	No	
External Access:	Read/Write	
<i>KA_PRESS2 - MainProgram/Communications - *27(ALRM)</i>		
KA_PRESS2.EnableIn	1	BOOL
PLC-PRESS2 Comm Fault Enable Input - System Defined Parameter		
KA_PRESS2.EnableOut	1	BOOL
PLC-PRESS2 Comm Fault Enable Output - System Defined Parameter		
KA_PRESS2.Latched	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperReset	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.ProgReset	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperDisable	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperEnable	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCountReset	0	BOOL
PLC-PRESS2 Comm Fault Set to 1 to reset alarm count		
KA_PRESS2.InAlarm	0	BOOL
PLC-PRESS2 Comm Fault		
<i>KA_PRESS2.InAlarm - MainProgram/L1100_PressControl - 4(XIC)</i>		
KA_PRESS2.Disabled	1	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.MinDurationPRE	60000	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.MinDurationACC	60000	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCount	4	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.InAlarmDate	10272022	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.InAlarmTime	121031	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.RetToNormalDate	10312022	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.RetToNormalTime	112123	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCountResetDate	0	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCountResetTime	0	DINT
PLC-PRESS2 Comm Fault		
KA_SSPS		ALRM
Comm Fail with Secondary Sludge PLC		
Constant	No	
External Access:	Read/Write	
<i>KA_SSPS - MainProgram/Communications - *39(ALRM)</i>		
		PLC_SH

KA_SSPS (Continued)

KA_SSPS.EnableIn	1	BOOL
Comm Fail with Secondary Sludge PLC Enable Input - System Defined Parameter		
KA_SSPS.EnableOut	1	BOOL
Comm Fail with Secondary Sludge PLC Enable Output - System Defined Parameter		
KA_SSPS.Latched	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.OperReset	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.ProgReset	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.OperDisable	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.OperEnable	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.AlarmCountReset	0	BOOL
Comm Fail with Secondary Sludge PLC Set to 1 to reset alarm count		
KA_SSPS.InAlarm	0	BOOL
Comm Fail with Secondary Sludge PLC		
<i>KA_SSPS.InAlarm - MainProgram/L1100_PressControl - 2(XIC)</i>		
KA_SSPS.Disabled	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.MinDurationPRE	30000	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.MinDurationACC	727	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.AlarmCount	2	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.InAlarmDate	10272022	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.InAlarmTime	121452	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.RefToNormalDate	10272022	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.RefToNormalTime	141228	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.AlarmCountResetDate	0	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.AlarmCountResetTime	0	DINT
Comm Fail with Secondary Sludge PLC		

KAP1104 ALRM PLC_SH

Sludge Feed Pump 1 Fail to Stop		
Constant	No	
External Access:	Read/Write	
<i>KAP1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *9(ALRM)</i>		
KAP1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Fail to Stop Enable Input - System Defined Parameter		
KAP1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Fail to Stop Enable Output - System Defined Parameter		
KAP1104.Latched	1	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.OperReset	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
<i>KAP1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
KAP1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Fail to Stop Set to 1 to reset alarm count		
KAP1104.InAlarm	0	BOOL

KAP1104 (Continued)

Sludge Feed Pump 1 Fail to Stop		
<i>KAP1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
KAP1104.Disabled	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.MinDurationPRE	30000	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Fail to Stop		

KAP1204 ALRM PLC_SH

Sludge Feed Pump 2 Fail to Stop		
Constant	No	
External Access:	Read/Write	
<i>KAP1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *9(ALRM)</i>		
KAP1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Fail to Stop Enable Input - System Defined Parameter		
KAP1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Fail to Stop Enable Output - System Defined Parameter		
KAP1204.Latched	1	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.OperReset	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
<i>KAP1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
KAP1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Fail to Stop Set to 1 to reset alarm count		
KAP1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
<i>KAP1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
KAP1204.Disabled	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.MinDurationPRE	30000	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.RetToNormalTime	0	DINT

KAP1204 (Continued)

Sludge Feed Pump 2 Fail to Stop
KAP1204.AlarmCountResetDate 0 DINT
 Sludge Feed Pump 2 Fail to Stop
KAP1204.AlarmCountResetTime 0 DINT
 Sludge Feed Pump 2 Fail to Stop

KAP2106 ALRM PLC_SH

Screw Press Conveyor 1 Fail to Stop
 Constant No
 External Access: Read/Write
*KAP2106 - MainProgram/L2106_ScrewPressConveyor1 - *6(ALRM)*
KAP2106.EnableIn 0 BOOL
 Screw Press Conveyor 1 Fail to Stop Enable Input - System Defined Parameter
KAP2106.EnableOut 0 BOOL
 Screw Press Conveyor 1 Fail to Stop Enable Output - System Defined Parameter
KAP2106.Latched 1 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.OperReset 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
*KAP2106.OperReset - MainProgram/L2106_ScrewPressConveyor1 - *8(OTL)*
KAP2106.ProgReset 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.OperDisable 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.OperEnable 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.AlarmCountReset 0 BOOL
 Screw Press Conveyor 1 Fail to Stop Set to 1 to reset alarm count
KAP2106.InAlarm 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.InAlarm - MainProgram/L2106_ScrewPressConveyor1 - 9(XIO)
KAP2106.Disabled 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.MinDurationPRE 30000 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.MinDurationACC 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.AlarmCount 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.InAlarmDate 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.InAlarmTime 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.RetToNormalDate 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.RetToNormalTime 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.AlarmCountResetDate 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.AlarmCountResetTime 0 DINT
 Screw Press Conveyor 1 Fail to Stop

KAP2206 ALRM PLC_SH

Screw Press Conveyor 2 Fail to Stop
 Constant No
 External Access: Read/Write
*KAP2206 - MainProgram/L2206_ScrewPressConveyor2 - *6(ALRM)*
KAP2206.EnableIn 0 BOOL
 Screw Press Conveyor 2 Fail to Stop Enable Input - System Defined Parameter
KAP2206.EnableOut 0 BOOL
 Screw Press Conveyor 2 Fail to Stop Enable Output - System Defined Parameter
KAP2206.Latched 1 BOOL
 Screw Press Conveyor 2 Fail to Stop

KAP2206 (Continued)

KAP2206.OperReset	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
<i>KAP2206.OperReset - MainProgram/L2206_ScrewPressConveyor2 - *8(OTL)</i>		
KAP2206.ProgReset	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.OperDisable	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.OperEnable	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCountReset	0	BOOL
Screw Press Conveyor 2 Fail to Stop Set to 1 to reset alarm count		
KAP2206.InAlarm	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
<i>KAP2206.InAlarm - MainProgram/L2206_ScrewPressConveyor2 - 9(XIO)</i>		
KAP2206.Disabled	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.MinDurationPRE	30000	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.MinDurationACC	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCount	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.InAlarmDate	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.InAlarmTime	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.RetToNormalDate	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.RetToNormalTime	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCountResetDate	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCountResetTime	0	DINT
Screw Press Conveyor 2 Fail to Stop		

KAP3101 ALRM PLC_SH

Aeration Blower 1 Fail to Stop		
Constant	No	
External Access:	Read/Write	
<i>KAP3101 - MainProgram/L3101_AerationBlower1_VFD - *7(ALRM)</i>		
KAP3101.EnableIn	0	BOOL
Aeration Blower 1 Fail to Stop Enable Input - System Defined Parameter		
KAP3101.EnableOut	0	BOOL
Aeration Blower 1 Fail to Stop Enable Output - System Defined Parameter		
KAP3101.Latched	1	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.OperReset	0	BOOL
Aeration Blower 1 Fail to Stop		
<i>KAP3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
KAP3101.ProgReset	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.OperDisable	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.OperEnable	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Fail to Stop Set to 1 to reset alarm count		
KAP3101.InAlarm	0	BOOL
Aeration Blower 1 Fail to Stop		
<i>KAP3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
KAP3101.Disabled	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.MinDurationPRE	30000	DINT

KAP3101 (Continued)

Aeration Blower 1 Fail to Stop		
KAP3101.MinDurationACC	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCount	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.InAlarmDate	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.InAlarmTime	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.RefToNormalDate	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.RefToNormalTime	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Fail to Stop		

KAP3201 ALRM PLC_SH

Aeration Blower 2 Fail to Stop		
Constant	No	
External Access:	Read/Write	
<i>KAP3201 - MainProgram/L3201_AerationBlower2_VFD - *7(ALRM)</i>		
KAP3201.EnableIn	0	BOOL
Aeration Blower 2 Fail to Stop Enable Input - System Defined Parameter		
KAP3201.EnableOut	0	BOOL
Aeration Blower 2 Fail to Stop Enable Output - System Defined Parameter		
KAP3201.Latched	1	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.OperReset	0	BOOL
Aeration Blower 2 Fail to Stop		
<i>KAP3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
KAP3201.ProgReset	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.OperDisable	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.OperEnable	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Fail to Stop Set to 1 to reset alarm count		
KAP3201.InAlarm	0	BOOL
Aeration Blower 2 Fail to Stop		
<i>KAP3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
KAP3201.Disabled	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.MinDurationPRE	30000	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.MinDurationACC	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCount	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.InAlarmDate	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.InAlarmTime	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.RefToNormalDate	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.RefToNormalTime	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCountResetDate	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCountResetTime	0	DINT
Aeration Blower 2 Fail to Stop		

Tag Name	Value	Unit	Alarm
KAS1104			ALRM
Sludge Feed Pump 1 Fail to Start			
Constant	No		
External Access:	Read/Write		
<i>KAS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *8(ALRM)</i>			
KAS1104.EnableIn	0		BOOL
Sludge Feed Pump 1 Fail to Start Enable Input - System Defined Parameter			
KAS1104.EnableOut	0		BOOL
Sludge Feed Pump 1 Fail to Start Enable Output - System Defined Parameter			
KAS1104.Latched	1		BOOL
Sludge Feed Pump 1 Fail to Start			
KAS1104.OperReset	0		BOOL
Sludge Feed Pump 1 Fail to Start			
<i>KAS1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>			
KAS1104.ProgReset	0		BOOL
Sludge Feed Pump 1 Fail to Start			
KAS1104.OperDisable	0		BOOL
Sludge Feed Pump 1 Fail to Start			
KAS1104.OperEnable	0		BOOL
Sludge Feed Pump 1 Fail to Start			
KAS1104.AlarmCountReset	0		BOOL
Sludge Feed Pump 1 Fail to Start Set to 1 to reset alarm count			
KAS1104.InAlarm	0		BOOL
Sludge Feed Pump 1 Fail to Start			
<i>KAS1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>			
KAS1104.Disabled	0		BOOL
Sludge Feed Pump 1 Fail to Start			
KAS1104.MinDurationPRE	5000		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.MinDurationACC	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.AlarmCount	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.InAlarmDate	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.InAlarmTime	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.RefToNormalDate	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.RefToNormalTime	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.AlarmCountResetDate	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.AlarmCountResetTime	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1204			ALRM
Sludge Feed Pump 2 Fail to Start			
Constant	No		
External Access:	Read/Write		
<i>KAS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *8(ALRM)</i>			
KAS1204.EnableIn	0		BOOL
Sludge Feed Pump 2 Fail to Start Enable Input - System Defined Parameter			
KAS1204.EnableOut	0		BOOL
Sludge Feed Pump 2 Fail to Start Enable Output - System Defined Parameter			
KAS1204.Latched	1		BOOL
Sludge Feed Pump 2 Fail to Start			
KAS1204.OperReset	0		BOOL
Sludge Feed Pump 2 Fail to Start			
<i>KAS1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>			
KAS1204.ProgReset	0		BOOL
Sludge Feed Pump 2 Fail to Start			
KAS1204.OperDisable	0		BOOL
Sludge Feed Pump 2 Fail to Start			

KAS1204 (Continued)		
KAS1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Fail to Start Set to 1 to reset alarm count		
KAS1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Fail to Start		
<i>KAS1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
KAS1204.Disabled	0	BOOL
Sludge Feed Pump 2 Fail to Start		
KAS1204.MinDurationPRE	5000	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS2106		ALRM
Screw Press Conveyor 1 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS2106 - MainProgram/L2106_ScrewPressConveyor1 - *5(ALRM)</i>		
KAS2106.EnableIn	0	BOOL
Screw Press Conveyor 1 Fail to Start Enable Input - System Defined Parameter		
KAS2106.EnableOut	0	BOOL
Screw Press Conveyor 1 Fail to Start Enable Output - System Defined Parameter		
KAS2106.Latched	1	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.OperReset	0	BOOL
Screw Press Conveyor 1 Fail to Start		
<i>KAS2106.OperReset - MainProgram/L2106_ScrewPressConveyor1 - *8(OTL)</i>		
KAS2106.ProgReset	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.OperDisable	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.OperEnable	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.AlarmCountReset	0	BOOL
Screw Press Conveyor 1 Fail to Start Set to 1 to reset alarm count		
KAS2106.InAlarm	0	BOOL
Screw Press Conveyor 1 Fail to Start		
<i>KAS2106.InAlarm - MainProgram/L2106_ScrewPressConveyor1 - 9(XIO)</i>		
KAS2106.Disabled	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.MinDurationPRE	5000	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.MinDurationACC	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.AlarmCount	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.InAlarmDate	0	DINT
Screw Press Conveyor 1 Fail to Start		

PLC_SH

KAS2106 (Continued)		
KAS2106.InAlarmTime	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.RetToNormalDate	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.RetToNormalTime	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.AlarmCountResetDate	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.AlarmCountResetTime	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2206		ALRM PLC_SH
Screw Press Conveyor 2 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS2206 - MainProgram/L2206_ScrewPressConveyor2 - *5(ALRM)</i>		
KAS2206.EnableIn	0	BOOL
Screw Press Conveyor 2 Fail to Start Enable Input - System Defined Parameter		
KAS2206.EnableOut	0	BOOL
Screw Press Conveyor 2 Fail to Start Enable Output - System Defined Parameter		
KAS2206.Latched	1	BOOL
Screw Press Conveyor 2 Fail to Start		
KAS2206.OperReset	0	BOOL
Screw Press Conveyor 2 Fail to Start		
<i>KAS2206.OperReset - MainProgram/L2206_ScrewPressConveyor2 - *8(OTL)</i>		
KAS2206.ProgReset	0	BOOL
Screw Press Conveyor 2 Fail to Start		
KAS2206.OperDisable	0	BOOL
Screw Press Conveyor 2 Fail to Start		
KAS2206.OperEnable	0	BOOL
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCountReset	0	BOOL
Screw Press Conveyor 2 Fail to Start Set to 1 to reset alarm count		
KAS2206.InAlarm	0	BOOL
Screw Press Conveyor 2 Fail to Start		
<i>KAS2206.InAlarm - MainProgram/L2206_ScrewPressConveyor2 - 9(XIO)</i>		
KAS2206.Disabled	0	BOOL
Screw Press Conveyor 2 Fail to Start		
KAS2206.MinDurationPRE	5000	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.MinDurationACC	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCount	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.InAlarmDate	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.InAlarmTime	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.RetToNormalDate	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.RetToNormalTime	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCountResetDate	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCountResetTime	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS3101		ALRM PLC_SH
Aeration Blower 1 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS3101 - MainProgram/L3101_AerationBlower1_VFD - *6(ALRM)</i>		
KAS3101.EnableIn	0	BOOL

KAS3101 (Continued)

Aeration Blower 1 Fail to Start Enable Input - System Defined Parameter		
KAS3101.EnableOut	0	BOOL
Aeration Blower 1 Fail to Start Enable Output - System Defined Parameter		
KAS3101.Latched	1	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.OperReset	0	BOOL
Aeration Blower 1 Fail to Start		
<i>KAS3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
KAS3101.ProgReset	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.OperDisable	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.OperEnable	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Fail to Start Set to 1 to reset alarm count		
KAS3101.InAlarm	0	BOOL
Aeration Blower 1 Fail to Start		
<i>KAS3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
KAS3101.Disabled	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.MinDurationPRE	5000	DINT
Aeration Blower 1 Fail to Start		
KAS3101.MinDurationACC	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCount	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.InAlarmDate	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.InAlarmTime	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.RefToNormalDate	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.RefToNormalTime	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Fail to Start		

KAS3201 ALRM PLC_SH

Aeration Blower 2 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS3201 - MainProgram/L3201_AerationBlower2_VFD - *6(ALRM)</i>		
KAS3201.EnableIn	0	BOOL
Aeration Blower 2 Fail to Start Enable Input - System Defined Parameter		
KAS3201.EnableOut	0	BOOL
Aeration Blower 2 Fail to Start Enable Output - System Defined Parameter		
KAS3201.Latched	1	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.OperReset	0	BOOL
Aeration Blower 2 Fail to Start		
<i>KAS3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
KAS3201.ProgReset	0	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.OperDisable	0	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.OperEnable	0	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Fail to Start Set to 1 to reset alarm count		
KAS3201.InAlarm	0	BOOL

KAS3201 (Continued)			
Aeration Blower 2 Fail to Start			
<i>KAS3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>			
KAS3201.Disabled	0	BOOL	
Aeration Blower 2 Fail to Start			
KAS3201.MinDurationPRE	30000	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.MinDurationACC	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.AlarmCount	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.InAlarmDate	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.InAlarmTime	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.RetToNormalDate	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.RetToNormalTime	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Fail to Start			
KC_MSG	3000000	DINT	PLC_SH
Messages Unconnected Time Out (Micro Seconds)			
Constant	No		
External Access:	Read/Write		
<i>KC_MSG - MainProgram/Communications - 13(SSV), 14(SSV), 28(SSV), 29(SSV)</i>			
KC_PLC		DateTime	PLC_SH
Date and Time			
Constant	No		
External Access:	Read/Write		
<i>KC_PLC - MainProgram/MainRoutine - 6(SSV)</i>			
KC_PLC.Year	2022	DINT	
Date and Time Year			
KC_PLC.Month	11	DINT	
Date and Time Month (1 - 12)			
KC_PLC.Day	7	DINT	
Date and Time Day (1 - 31)			
KC_PLC.Hour	9	DINT	
Date and Time Hour (0 - 23)			
KC_PLC.Minute	9	DINT	
Date and Time Minute (0 - 59)			
KC_PLC.Second	27	DINT	
Date and Time Second (0 - 59)			
KC_PLC.MicroSecond	0	DINT	
Date and Time Microsecond (0 - 999,999)			
KI_PLC		DateTime	PLC_SH
Date and Time			
Constant	No		
External Access:	Read/Write		
KI_PLC.Year	2022	DINT	
Date and Time Year			
<i>KI_PLC.Year - MainProgram/MainRoutine - *5(GSV)</i>			
KI_PLC.Month	11	DINT	
Date and Time Month (1 - 12)			
KI_PLC.Day	7	DINT	
Date and Time Day (1 - 31)			
KI_PLC.Hour	10	DINT	
Date and Time Hour (0 - 23)			
<i>KI_PLC.Hour - MainProgram/MainRoutine - 5(CPT)</i>			

KI_PLC (Continued)

KI_PLC.Minute	41	DINT
Date and Time Minute (0 - 59)		
<i>KI_PLC.Minute - MainProgram/MainRoutine - 5(CPT)</i>		
KI_PLC.Second	58	DINT
Date and Time Second (0 - 59)		
KI_PLC.MicroSecond	324278	DINT
Date and Time Microsecond (0 - 999,999)		

KQI1104		RH	PLC_SH
Sludge Feed Pump 1			
Constant	No		
External Access:	Read/Write		
<i>KQI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *24(RH)</i>			
KQI1104.EnableIn	0	BOOL	
Sludge Feed Pump 1 Enable Input - System Defined Parameter			
KQI1104.EnableOut	0	BOOL	
Sludge Feed Pump 1 Enable Output - System Defined Parameter			
KQI1104.TotalHours	0	DINT	
Sludge Feed Pump 1 Total ETM			
<i>KQI1104.TotalHours - MainProgram/L1104_SludgeFeedPump1_VFD - 27(MOV)</i>			
KQI1104.TodaysHours	0	DINT	
Sludge Feed Pump 1 Today's ETM			
KQI1104.YesterdaysHours	0	DINT	
Sludge Feed Pump 1 Yesterday's ETM			
KQI1104.LastStartDate	0	DINT	
Sludge Feed Pump 1 Last Start Date			
KQI1104.LastStartTime	0	DINT	
Sludge Feed Pump 1 Last Start Time			
KQI1104.LastStopDate	8112022	DINT	
Sludge Feed Pump 1 Last Stop Date			
KQI1104.LastStopTime	104631	DINT	
Sludge Feed Pump 1 Last Stop Time			
KQI1104.TotalStarts	0	DINT	
Sludge Feed Pump 1 Total Starts			
KQI1104.TodaysStarts	0	DINT	
Sludge Feed Pump 1 Today's Starts			
KQI1104.YesterdaysStarts	0	DINT	
Sludge Feed Pump 1 Yesterday's Starts			
KQI1104.StartsPerHour	0	DINT	
Sludge Feed Pump 1 Calculated Number of Starts per Hour			
KQI1104.HourSP	0	DINT	
Sludge Feed Pump 1 Hour to Rollover (0 - 23)			
KQI1104.MinuteSP	0	DINT	
Sludge Feed Pump 1 Minute to Rollover (0 - 59)			
KQI1104.HMIReset	0	BOOL	
Sludge Feed Pump 1			
KQI1104.Maint1Hours	0	DINT	
Sludge Feed Pump 1 Maintenance 1 Hours			
KQI1104.Maint2Hours	0	DINT	
Sludge Feed Pump 1 Maintenance 2 Hours			
KQI1104.Maint3Hours	0	DINT	
Sludge Feed Pump 1 Maintenance 3 Hours			
KQI1104.Maint1Done	0	BOOL	
Sludge Feed Pump 1 Maintenance 1 Due			
KQI1104.Maint2Done	0	BOOL	
Sludge Feed Pump 1 Maintenance 2 Due			
KQI1104.Maint3Done	0	BOOL	
Sludge Feed Pump 1 Maintenance 3 Due			
KQI1104.Maint1SP	50000	DINT	
Sludge Feed Pump 1 Maintenance 1 Hours SP			
KQI1104.Maint2SP	50000	DINT	
Sludge Feed Pump 1 Maintenance 2 Hours SP			
KQI1104.Maint3SP	50000	DINT	

KQI1104 (Continued)

Sludge Feed Pump 1 Maintenance 3 Hours SP

KQI1204 RH PLC_SH

Sludge Pump 2 Run Hours

Constant No

External Access: Read/Write

*KQI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *24(RH)*

KQI1204.EnableIn 0 BOOL

Sludge Pump 2 Run Hours Enable Input - System Defined Parameter

KQI1204.EnableOut 0 BOOL

Sludge Pump 2 Run Hours Enable Output - System Defined Parameter

KQI1204.TotalHours 0 DINT

Sludge Pump 2 Run Hours Total ETM

KQI1204.TotalHours - MainProgram/L1104_SludgeFeedPump1_VFD - 27(MOV)

KQI1204.TodaysHours 0 DINT

Sludge Pump 2 Run Hours Today's ETM

KQI1204.YesterdaysHours 0 DINT

Sludge Pump 2 Run Hours Yesterday's ETM

KQI1204.LastStartDate 0 DINT

Sludge Pump 2 Run Hours Last Start Date

KQI1204.LastStartTime 0 DINT

Sludge Pump 2 Run Hours Last Start Time

KQI1204.LastStopDate 8112022 DINT

Sludge Pump 2 Run Hours Last Stop Date

KQI1204.LastStopTime 104631 DINT

Sludge Pump 2 Run Hours Last Stop Time

KQI1204.TotalStarts 0 DINT

Sludge Pump 2 Run Hours Total Starts

KQI1204.TodaysStarts 0 DINT

Sludge Pump 2 Run Hours Today's Starts

KQI1204.YesterdaysStarts 0 DINT

Sludge Pump 2 Run Hours Yesterday's Starts

KQI1204.StartsPerHour 0 DINT

Sludge Pump 2 Run Hours Calculated Number of Starts per Hour

KQI1204.HourSP 0 DINT

Sludge Pump 2 Run Hours Hour to Rollover (0 - 23)

KQI1204.MinuteSP 0 DINT

Sludge Pump 2 Run Hours Minute to Rollover (0 - 59)

KQI1204.HMIRReset 0 BOOL

Sludge Pump 2 Run Hours

KQI1204.Maint1Hours 0 DINT

Sludge Pump 2 Run Hours Maintenance 1 Hours

KQI1204.Maint2Hours 0 DINT

Sludge Pump 2 Run Hours Maintenance 2 Hours

KQI1204.Maint3Hours 0 DINT

Sludge Pump 2 Run Hours Maintenance 3 Hours

KQI1204.Maint1Done 0 BOOL

Sludge Pump 2 Run Hours Maintenance 1 Due

KQI1204.Maint2Done 0 BOOL

Sludge Pump 2 Run Hours Maintenance 2 Due

KQI1204.Maint3Done 0 BOOL

Sludge Pump 2 Run Hours Maintenance 3 Due

KQI1204.Maint1SP 50000 DINT

Sludge Pump 2 Run Hours Maintenance 1 Hours SP

KQI1204.Maint2SP 50000 DINT

Sludge Pump 2 Run Hours Maintenance 2 Hours SP

KQI1204.Maint3SP 50000 DINT

Sludge Pump 2 Run Hours Maintenance 3 Hours SP

KQI2106 RH PLC_SH

Screw Press Conveyor 1

Constant No

External Access: Read/Write

KQI2106 (Continued)

*KQI2106 - MainProgram/L2106_ScrewPressConveyor1 - *I4(RH)*

KQI2106.EnableIn	0	BOOL
Screw Press Conveyor 1 Enable Input - System Defined Parameter		
KQI2106.EnableOut	0	BOOL
Screw Press Conveyor 1 Enable Output - System Defined Parameter		
KQI2106.TotalHours	0	DINT
Screw Press Conveyor 1 Total ETM		
KQI2106.TodaysHours	0	DINT
Screw Press Conveyor 1 Today's ETM		
KQI2106.YesterdaysHours	0	DINT
Screw Press Conveyor 1 Yesterday's ETM		
KQI2106.LastStartDate	0	DINT
Screw Press Conveyor 1 Last Start Date		
KQI2106.LastStartTime	0	DINT
Screw Press Conveyor 1 Last Start Time		
KQI2106.LastStopDate	8112022	DINT
Screw Press Conveyor 1 Last Stop Date		
KQI2106.LastStopTime	104631	DINT
Screw Press Conveyor 1 Last Stop Time		
KQI2106.TotalStarts	0	DINT
Screw Press Conveyor 1 Total Starts		
KQI2106.TodaysStarts	0	DINT
Screw Press Conveyor 1 Today's Starts		
KQI2106.YesterdaysStarts	0	DINT
Screw Press Conveyor 1 Yesterday's Starts		
KQI2106.StartsPerHour	0	DINT
Screw Press Conveyor 1 Calculated Number of Starts per Hour		
KQI2106.HourSP	0	DINT
Screw Press Conveyor 1 Hour to Rollover (0 - 23)		
KQI2106.MinuteSP	0	DINT
Screw Press Conveyor 1 Minute to Rollover (0 - 59)		
KQI2106.HMIReset	0	BOOL
Screw Press Conveyor 1		
KQI2106.Maint1Hours	0	DINT
Screw Press Conveyor 1 Maintenance 1 Hours		
KQI2106.Maint2Hours	0	DINT
Screw Press Conveyor 1 Maintenance 2 Hours		
KQI2106.Maint3Hours	0	DINT
Screw Press Conveyor 1 Maintenance 3 Hours		
KQI2106.Maint1Done	0	BOOL
Screw Press Conveyor 1 Maintenance 1 Due		
KQI2106.Maint2Done	0	BOOL
Screw Press Conveyor 1 Maintenance 2 Due		
KQI2106.Maint3Done	0	BOOL
Screw Press Conveyor 1 Maintenance 3 Due		
KQI2106.Maint1SP	50000	DINT
Screw Press Conveyor 1 Maintenance 1 Hours SP		
KQI2106.Maint2SP	50000	DINT
Screw Press Conveyor 1 Maintenance 2 Hours SP		
KQI2106.Maint3SP	50000	DINT
Screw Press Conveyor 1 Maintenance 3 Hours SP		

KQI2206 RH PLC_SH

Screw Press Conveyor 2

Constant No

External Access: Read/Write

*KQI2206 - MainProgram/L2206_ScrewPressConveyor2 - *I4(RH)*

KQI2206.EnableIn	0	BOOL
Screw Press Conveyor 2 Enable Input - System Defined Parameter		
KQI2206.EnableOut	0	BOOL
Screw Press Conveyor 2 Enable Output - System Defined Parameter		
KQI2206.TotalHours	0	DINT
Screw Press Conveyor 2 Total ETM		

KQI2206 (Continued)

KQI2206.TodaysHours	0	DINT
Screw Press Conveyor 2 Today's ETM		
KQI2206.YesterdaysHours	0	DINT
Screw Press Conveyor 2 Yesterday's ETM		
KQI2206.LastStartDate	0	DINT
Screw Press Conveyor 2 Last Start Date		
KQI2206.LastStartTime	0	DINT
Screw Press Conveyor 2 Last Start Time		
KQI2206.LastStopDate	8112022	DINT
Screw Press Conveyor 2 Last Stop Date		
KQI2206.LastStopTime	104631	DINT
Screw Press Conveyor 2 Last Stop Time		
KQI2206.TotalStarts	0	DINT
Screw Press Conveyor 2 Total Starts		
KQI2206.TodaysStarts	0	DINT
Screw Press Conveyor 2 Today's Starts		
KQI2206.YesterdaysStarts	0	DINT
Screw Press Conveyor 2 Yesterday's Starts		
KQI2206.StartsPerHour	0	DINT
Screw Press Conveyor 2 Calculated Number of Starts per Hour		
KQI2206.HourSP	0	DINT
Screw Press Conveyor 2 Hour to Rollover (0 - 23)		
KQI2206.MinuteSP	0	DINT
Screw Press Conveyor 2 Minute to Rollover (0 - 59)		
KQI2206.HMIReset	0	BOOL
Screw Press Conveyor 2		
KQI2206.Maint1Hours	0	DINT
Screw Press Conveyor 2 Maintenance 1 Hours		
KQI2206.Maint2Hours	0	DINT
Screw Press Conveyor 2 Maintenance 2 Hours		
KQI2206.Maint3Hours	0	DINT
Screw Press Conveyor 2 Maintenance 3 Hours		
KQI2206.Maint1Done	0	BOOL
Screw Press Conveyor 2 Maintenance 1 Due		
KQI2206.Maint2Done	0	BOOL
Screw Press Conveyor 2 Maintenance 2 Due		
KQI2206.Maint3Done	0	BOOL
Screw Press Conveyor 2 Maintenance 3 Due		
KQI2206.Maint1SP	50000	DINT
Screw Press Conveyor 2 Maintenance 1 Hours SP		
KQI2206.Maint2SP	50000	DINT
Screw Press Conveyor 2 Maintenance 2 Hours SP		
KQI2206.Maint3SP	50000	DINT
Screw Press Conveyor 2 Maintenance 3 Hours SP		

KQI3101 RH PLC_SH

Aeration Blower 1		
Constant	No	
External Access:	Read/Write	
<i>KQI3101 - MainProgram/L3101_AerationBlower1_VFD - *22(RH)</i>		
KQI3101.EnableIn	0	BOOL
Aeration Blower 1 Enable Input - System Defined Parameter		
KQI3101.EnableOut	0	BOOL
Aeration Blower 1 Enable Output - System Defined Parameter		
KQI3101.TotalHours	0	DINT
Aeration Blower 1 Total ETM		
KQI3101.TodaysHours	0	DINT
Aeration Blower 1 Today's ETM		
KQI3101.YesterdaysHours	0	DINT
Aeration Blower 1 Yesterday's ETM		
KQI3101.LastStartDate	0	DINT
Aeration Blower 1 Last Start Date		
KQI3101.LastStartTime	0	DINT

KQI3101 (Continued)

Aeration Blower 1 Last Start Time		
KQI3101.LastStopDate	8112022	DINT
Aeration Blower 1 Last Stop Date		
KQI3101.LastStopTime	104631	DINT
Aeration Blower 1 Last Stop Time		
KQI3101.TotalStarts	0	DINT
Aeration Blower 1 Total Starts		
KQI3101.TodaysStarts	0	DINT
Aeration Blower 1 Today's Starts		
KQI3101.YesterdaysStarts	0	DINT
Aeration Blower 1 Yesterday's Starts		
KQI3101.StartsPerHour	0	DINT
Aeration Blower 1 Calculated Number of Starts per Hour		
KQI3101.HourSP	0	DINT
Aeration Blower 1 Hour to Rollover (0 - 23)		
KQI3101.MinuteSP	0	DINT
Aeration Blower 1 Minute to Rollover (0 - 59)		
KQI3101.HMIRreset	0	BOOL
Aeration Blower 1		
KQI3101.Maint1Hours	0	DINT
Aeration Blower 1 Maintenance 1 Hours		
KQI3101.Maint2Hours	0	DINT
Aeration Blower 1 Maintenance 2 Hours		
KQI3101.Maint3Hours	0	DINT
Aeration Blower 1 Maintenance 3 Hours		
KQI3101.Maint1Done	0	BOOL
Aeration Blower 1 Maintenance 1 Due		
KQI3101.Maint2Done	0	BOOL
Aeration Blower 1 Maintenance 2 Due		
KQI3101.Maint3Done	0	BOOL
Aeration Blower 1 Maintenance 3 Due		
KQI3101.Maint1SP	50000	DINT
Aeration Blower 1 Maintenance 1 Hours SP		
KQI3101.Maint2SP	50000	DINT
Aeration Blower 1 Maintenance 2 Hours SP		
KQI3101.Maint3SP	50000	DINT
Aeration Blower 1 Maintenance 3 Hours SP		

KQI3201 RH PLC_SH

Aeration Blower 2		
Constant	No	
External Access:	Read/Write	
<i>KQI3201 - MainProgram/L3201_AerationBlower2_VFD - *22(RH)</i>		
KQI3201.EnableIn	0	BOOL
Aeration Blower 2 Enable Input - System Defined Parameter		
KQI3201.EnableOut	0	BOOL
Aeration Blower 2 Enable Output - System Defined Parameter		
KQI3201.TotalHours	0	DINT
Aeration Blower 2 Total ETM		
KQI3201.TodaysHours	0	DINT
Aeration Blower 2 Today's ETM		
KQI3201.YesterdaysHours	0	DINT
Aeration Blower 2 Yesterday's ETM		
KQI3201.LastStartDate	0	DINT
Aeration Blower 2 Last Start Date		
KQI3201.LastStartTime	0	DINT
Aeration Blower 2 Last Start Time		
KQI3201.LastStopDate	8112022	DINT
Aeration Blower 2 Last Stop Date		
KQI3201.LastStopTime	104631	DINT
Aeration Blower 2 Last Stop Time		
KQI3201.TotalStarts	0	DINT
Aeration Blower 2 Total Starts		

KQI3201 (Continued)

KQI3201.TodaysStarts	0	DINT
Aeration Blower 2 Today's Starts		
KQI3201.YesterdaysStarts	0	DINT
Aeration Blower 2 Yesterday's Starts		
KQI3201.StartsPerHour	0	DINT
Aeration Blower 2 Calculated Number of Starts per Hour		
KQI3201.HourSP	0	DINT
Aeration Blower 2 Hour to Rollover (0 - 23)		
KQI3201.MinuteSP	0	DINT
Aeration Blower 2 Minute to Rollover (0 - 59)		
KQI3201.HMIReset	0	BOOL
Aeration Blower 2		
KQI3201.Maint1Hours	0	DINT
Aeration Blower 2 Maintenance 1 Hours		
KQI3201.Maint2Hours	0	DINT
Aeration Blower 2 Maintenance 2 Hours		
KQI3201.Maint3Hours	0	DINT
Aeration Blower 2 Maintenance 3 Hours		
KQI3201.Maint1Done	0	BOOL
Aeration Blower 2 Maintenance 1 Due		
KQI3201.Maint2Done	0	BOOL
Aeration Blower 2 Maintenance 2 Due		
KQI3201.Maint3Done	0	BOOL
Aeration Blower 2 Maintenance 3 Due		
KQI3201.Maint1SP	50000	DINT
Aeration Blower 2 Maintenance 1 Hours SP		
KQI3201.Maint2SP	50000	DINT
Aeration Blower 2 Maintenance 2 Hours SP		
KQI3201.Maint3SP	50000	DINT
Aeration Blower 2 Maintenance 3 Hours SP		

LAH1101 ALRM PLC_SH

Sludge Holding Tank 1 Level Alarm High		
Constant	No	
External Access:	Read/Write	
<i>LAH1101 - MainProgram/L1101_SHT1_Level - *2(ALRM)</i>		
LAH1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Alarm High Enable Input - System Defined Parameter		
LAH1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Alarm High Enable Output - System Defined Parameter		
LAH1101.Latched	1	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
<i>LAH1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAH1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Alarm High Set to 1 to reset alarm count		
LAH1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Alarm High		

LAH1101 (Continued)

LAH1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Alarm High		

LAH1102 ALRM PLC_SH

Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
Constant	No	
External Access:	Read/Write	
<i>LAH1102 - MainProgram/L1102_SHT1_BlanketLevel - *2(ALRM)</i>		
LAH1102.EnableIn	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High Enable Input - System Defined Parameter		
LAH1102.EnableOut	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High Enable Output - System Defined Parameter		
LAH1102.Latched	1	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.OperReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
<i>LAH1102.OperReset - MainProgram/L1102_SHT1_BlanketLevel - *4(OTL)</i>		
LAH1102.ProgReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.OperDisable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.OperEnable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High Set to 1 to reset alarm count		
LAH1102.InAlarm	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.Disabled	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.MinDurationACC	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.AlarmCount	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.InAlarmDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.InAlarmTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		

LAL1101 ALRM PLC_SH

Sludge Holding Tank 1 Level Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>LAL1101 - MainProgram/L1101_SHT1_Level - *3(ALRM)</i>		

LAL1101 (Continued)

LAL1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Input - System Defined Parameter		
LAL1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Output - System Defined Parameter		
LAL1101.Latched	1	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAL1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Set to 1 to reset alarm count		
LAL1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.InAlarm - MainProgram/L1100_PressControl - 0(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>		
LAL1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		

LAL1102 ALRM PLC_SH

Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>LAL1102 - MainProgram/L1102_SHT1_BlanketLevel - *3(ALRM)</i>		
LAL1102.EnableIn	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Enable Input - System Defined Parameter		
LAL1102.EnableOut	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Enable Output - System Defined Parameter		
LAL1102.Latched	1	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.OperReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
<i>LAL1102.OperReset - MainProgram/L1102_SHT1_BlanketLevel - *4(OTL)</i>		
LAL1102.ProgReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.OperDisable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		

LAL1102 (Continued)

LAL1102.OperEnable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Set to 1 to reset alarm count		
LAL1102.InAlarm	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
<i>LAL1102.InAlarm - MainProgram/L1100_PressControl - 0(XIC)</i>		
LAL1102.Disabled	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.MinDurationACC	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCount	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.InAlarmDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.InAlarmTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		

LAT1101 ALRM PLC_SH

Sludge Holding Tank 1 Level Signal Fail		
Constant	No	
External Access:	Read/Write	
<i>LAT1101 - MainProgram/L1101_SHT1_Level - *1(ALRM)</i>		
LAT1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Enable Input - System Defined Parameter		
LAT1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Enable Output - System Defined Parameter		
LAT1101.Latched	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
<i>LAT1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAT1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Set to 1 to reset alarm count		
LAT1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
<i>LAT1101.InAlarm - MainProgram/L1101_SHT1_Level - 2(XIO), 3(XIO)</i>		
<i>LAT1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>		
LAT1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.MinDurationPRE	5000	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Signal Fail		

LAT1101 (Continued)		
LAT1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1102		ALRM
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
Constant	No	
External Access:	Read/Write	
<i>LAT1102 - MainProgram/L1102_SHT1_BlanketLevel - *1(ALRM)</i>		
LAT1102.EnableIn	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail Enable Input - System Defined Parameter		
LAT1102.EnableOut	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail Enable Output - System Defined Parameter		
LAT1102.Latched	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.OperReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
<i>LAT1102.OperReset - MainProgram/L1102_SHT1_BlanketLevel - *4(OTL)</i>		
LAT1102.ProgReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.OperDisable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.OperEnable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail Set to 1 to reset alarm count		
LAT1102.InAlarm	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
<i>LAT1102.InAlarm - MainProgram/L1102_SHT1_BlanketLevel - 2(XIO), 3(XIO)</i>		
LAT1102.Disabled	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.MinDurationPRE	5000	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.MinDurationACC	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.AlarmCount	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.InAlarmDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.InAlarmTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LCH1101	100.0	REAL
Sludge Holding Tank 1 Level Alarm High SP		

PLC_SH

PLC_SH

LCH1101 (Continued)			
Constant	No		
External Access:	Read/Write		
<i>LCH1101 - MainProgram/L1101_SHT1_Level - 2(GRT)</i>			
LCH1102	100.0	REAL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level Alarm High SP			
Constant	No		
External Access:	Read/Write		
<i>LCH1102 - MainProgram/L1102_SHT1_BlanketLevel - 2(GRT)</i>			
LCL1101	0.0	REAL	PLC_SH
Sludge Holding Tank 1 Level Alarm Low SP			
Constant	No		
External Access:	Read/Write		
<i>LCL1101 - MainProgram/L1101_SHT1_Level - 3(LES)</i>			
LCL1102	0.0	REAL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low SP			
Constant	No		
External Access:	Read/Write		
<i>LCL1102 - MainProgram/L1102_SHT1_BlanketLevel - 3(LES)</i>			
LI1101		SCP	PLC_SH
Sludge Holding Tank 1 Level			
Constant	No		
External Access:	Read/Write		
<i>LI1101 - MainProgram/L1101_SHT1_Level - *0(SCP)</i>			
LI1101.EnableIn	1	BOOL	
Sludge Holding Tank 1 Level Enable Input - System Defined Parameter			
LI1101.EnableOut	1	BOOL	
Sludge Holding Tank 1 Level Enable Output - System Defined Parameter			
LI1101.Input	0.0	REAL	
Sludge Holding Tank 1 Level			
<i>LI1101.Input - MainProgram/L1101_SHT1_Level - *0(MOV), 1(LIM)</i>			
LI1101.InputMin	4000.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.InputMax	20000.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.OutputMin	0.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.OutputMax	100.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.Output	0.0	REAL	
Sludge Holding Tank 1 Level			
<i>LI1101.Output - MainProgram/L1101_SHT1_Level - 2(GRT), 3(LES)</i>			
LI1101.ClampMin	1	BOOL	
Sludge Holding Tank 1 Level			
LI1101.ClampMax	1	BOOL	
Sludge Holding Tank 1 Level			
LI1102		SCP	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level			
Constant	No		
External Access:	Read/Write		
<i>LI1102 - MainProgram/L1102_SHT1_BlanketLevel - *0(SCP)</i>			
LI1102.EnableIn	1	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Enable Input - System Defined Parameter			
LI1102.EnableOut	1	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Enable Output - System Defined Parameter			
LI1102.Input	0.0	REAL	
Sludge Holding Tank 1 Sludge Blanket Level			
<i>LI1102.Input - MainProgram/L1102_SHT1_BlanketLevel - *0(MOV), 1(LIM)</i>			
LI1102.InputMin	4000.0	REAL	

LI1102 (Continued)

Sludge Holding Tank 1 Sludge Blanket Level		
LI1102.InputMax	20000.0	REAL
Sludge Holding Tank 1 Sludge Blanket Level		
LI1102.OutputMin	0.0	REAL
Sludge Holding Tank 1 Sludge Blanket Level		
LI1102.OutputMax	100.0	REAL
Sludge Holding Tank 1 Sludge Blanket Level		
LI1102.Output	0.0	REAL
Sludge Holding Tank 1 Sludge Blanket Level		
<i>LI1102.Output - MainProgram/LI1102_SHT1_BlanketLevel - 2(GRT), 3(LES)</i>		
LI1102.ClampMin	1	BOOL
Sludge Holding Tank 1 Sludge Blanket Level		
LI1102.ClampMax	1	BOOL
Sludge Holding Tank 1 Sludge Blanket Level		

LI1104 LL PLC_SH

Sludge Pumps LL2		
Constant	No	
External Access:	Read/Write	
<i>LI1104 - MainProgram/LI1104_SludgeFeedPump1_VFD - *33(LL)</i>		
LI1104.EnableIn	1	BOOL
Sludge Pumps LL2 Enable Input - System Defined Parameter		
LI1104.EnableOut	1	BOOL
Sludge Pumps LL2 Enable Output - System Defined Parameter		
LI1104.AlternationMode	0	DINT
Sludge Pumps LL2 Alternation Mode		
LI1104.AlternationPRE	2400	DINT
Sludge Pumps LL2 Alternation Time Preset (0.01 HRS)		
LI1104.AlternationACC	0	DINT
Sludge Pumps LL2 Alternation Time Accumulated (0.01 HRS)		
LI1104.NextCall	0	DINT
Sludge Pumps LL2 (1)Increase Call (0)No Call (-1)Decrease Call		
<i>LI1104.NextCall - MainProgram/LI1104_SludgeFeedPump1_VFD - *29(CLR), *30(MOV), *31(MOV), *32(CLR)</i>		
LI1104.NextCallCountDown	0	DINT
Sludge Pumps LL2 Next Call Count Down (Milliseconds)		
LI1104.NextCalled	0	DINT
Sludge Pumps LL2 (Equipment Number)		
LI1104.CalledCount	0	DINT
Sludge Pumps LL2 Called Count		
<i>LI1104.CalledCount - MainProgram/LI1104_SludgeFeedPump1_VFD - *32(CLR), 21(GEQ)</i>		
<i>LI1104.CalledCount - MainProgram/LI204_SludgeFeedPump2_VFD - 21(GEQ)</i>		
LI1104.ReadyCount	0	DINT
Sludge Pumps LL2 Ready Count		
LI1104.OnCountTotal	0	DINT
Sludge Pumps LL2 Total On Count		
LI1104.OnCountAuto	0	DINT
Sludge Pumps LL2 Auto On Count		
LI1104.OnCountMax	1	DINT
Sludge Pumps LL2 Maximum On Count		
LI1104.Ready1	0	BOOL
Sludge Pumps LL2 1 Ready		
<i>LI1104.Ready1 - MainProgram/Communications - 19(XIO), 4(XIO)</i>		
<i>LI1104.Ready1 - MainProgram/LI1100_PressControl - 0(XIO), 1(XIO)</i>		
<i>LI1104.Ready1 - MainProgram/LI1104_SludgeFeedPump1_VFD - *25(OTE)</i>		
LI1104.Ready2	0	BOOL
Sludge Pumps LL2 2 Ready		
<i>LI1104.Ready2 - MainProgram/Communications - 19(XIO), 4(XIO)</i>		
<i>LI1104.Ready2 - MainProgram/LI1100_PressControl - 0(XIO), 1(XIO)</i>		
<i>LI1104.Ready2 - MainProgram/LI1104_SludgeFeedPump1_VFD - *26(OTE)</i>		
LI1104.Ready3	0	BOOL
Sludge Pumps LL2 3 Ready		
<i>LI1104.Ready3 - MainProgram/LI1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LI1104.Ready4	0	BOOL

LL1104 (Continued)

Sludge Pumps LL2 4 Ready		
<i>LL1104.Ready4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready5	0	BOOL
Sludge Pumps LL2 5 Ready		
<i>LL1104.Ready5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready6	0	BOOL
Sludge Pumps LL2 6 Ready		
<i>LL1104.Ready6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.RunHours1	0	DINT
Sludge Pumps LL2 1 Total ETM		
<i>LL1104.RunHours1 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours2	0	DINT
Sludge Pumps LL2 2 Total ETM		
<i>LL1104.RunHours2 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours3	0	DINT
Sludge Pumps LL2 3 Total ETM		
LL1104.RunHours4	0	DINT
Sludge Pumps LL2 4 Total ETM		
LL1104.RunHours5	0	DINT
Sludge Pumps LL2 5 Total ETM		
LL1104.RunHours6	0	DINT
Sludge Pumps LL2 6 Total ETM		
LL1104.Position1SP	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position SP		
LL1104.Position2SP	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position SP		
LL1104.Position3SP	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position SP		
LL1104.Position4SP	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position SP		
LL1104.Position5SP	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position SP		
LL1104.Position6SP	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position SP		
LL1104.Position1	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position		
<i>LL1104.Position1 - MainProgram/L1104_SludgeFeedPump1_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position2	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position		
<i>LL1104.Position2 - MainProgram/L1204_SludgeFeedPump2_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position3	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position		
LL1104.Position4	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position		
LL1104.Position5	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position		
LL1104.Position6	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position		
LL1104.Delay0_1	5000	DINT
Sludge Pumps LL2 Call On 0 to 1 Delay (Milliseconds)		
LL1104.Delay1_2	10000	DINT
Sludge Pumps LL2 Call On 1 to 2 Delay (Milliseconds)		
LL1104.Delay2_3	15000	DINT
Sludge Pumps LL2 Call On 2 to 3 Delay (Milliseconds)		
LL1104.Delay3_4	20000	DINT
Sludge Pumps LL2 Call On 3 to 4 Delay (Milliseconds)		
LL1104.Delay4_5	25000	DINT
Sludge Pumps LL2 Call On 4 to 5 Delay (Milliseconds)		
LL1104.Delay5_6	30000	DINT
Sludge Pumps LL2 Call On 5 to 6 Delay (Milliseconds)		
LL1104.Delay6_5	30000	DINT
Sludge Pumps LL2 Call Off 6 to 5 Delay (Milliseconds)		
LL1104.Delay5_4	25000	DINT

LL1104 (Continued)

Sludge Pumps LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL1104.Delay4_3	20000	DINT
Sludge Pumps LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL1104.Delay3_2	15000	DINT
Sludge Pumps LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL1104.Delay2_1	10000	DINT
Sludge Pumps LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL1104.Delay1_0	5000	DINT
Sludge Pumps LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL1104.MaxOn	0	BOOL
Sludge Pumps LL2 Maximum Number of Devices are Running		
<i>LL1104.MaxOn - MainProgram/L1104_SludgeFeedPump1_VFD - 30(XIO)</i>		
LL1104.On1	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On1 - MainProgram/L1104_SludgeFeedPump1_VFD - *25(OTE)</i>		
LL1104.On2	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On2 - MainProgram/L1104_SludgeFeedPump1_VFD - *26(OTE)</i>		
LL1104.On3	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On3 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On4	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On5	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On6	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.CountUpOS	0	BOOL
Sludge Pumps LL2		
LL1104.CountDownOS	0	BOOL
Sludge Pumps LL2		

LL3101 LL PLC_SH

Aeration Blowers LL2		
Constant	No	
External Access:	Read/Write	
LL3101.EnableIn	1	BOOL
Aeration Blowers LL2 Enable Input - System Defined Parameter		
LL3101.EnableOut	1	BOOL
Aeration Blowers LL2 Enable Output - System Defined Parameter		
LL3101.AlternationMode	0	DINT
Aeration Blowers LL2 Alternation Mode		
LL3101.AlternationPRE	2400	DINT
Aeration Blowers LL2 Alternation Time Preset (0.01 HRS)		
LL3101.AlternationACC	0	DINT
Aeration Blowers LL2 Alternation Time Accumulated (0.01 HRS)		
LL3101.NextCall	0	DINT
Aeration Blowers LL2 (1)Increase Call (0)No Call (-1)Decrease Call		
LL3101.NextCallCountDown	0	DINT
Aeration Blowers LL2 Next Call Count Down (Milliseconds)		
LL3101.NextCalled	0	DINT
Aeration Blowers LL2 (Equipment Number)		
LL3101.CalledCount	0	DINT
Aeration Blowers LL2 Called Count		
<i>LL3101.CalledCount - MainProgram/L3101_AerationBlower1_VFD - 20(GEQ)</i>		
LL3101.ReadyCount	0	DINT
Aeration Blowers LL2 Ready Count		
LL3101.OnCountTotal	0	DINT
Aeration Blowers LL2 Total On Count		
LL3101.OnCountAuto	0	DINT

LL3101 (Continued)

Aeration Blowers LL2 Auto On Count		
LL3101.OnCountMax	1	DINT
Aeration Blowers LL2 Maximum On Count		
LL3101.Ready1	0	BOOL
Aeration Blowers LL2 1 Ready		
LL3101.Ready2	0	BOOL
Aeration Blowers LL2 2 Ready		
LL3101.Ready3	0	BOOL
Aeration Blowers LL2 3 Ready		
LL3101.Ready4	0	BOOL
Aeration Blowers LL2 4 Ready		
LL3101.Ready5	0	BOOL
Aeration Blowers LL2 5 Ready		
LL3101.Ready6	0	BOOL
Aeration Blowers LL2 6 Ready		
LL3101.RunHours1	0	DINT
Aeration Blowers LL2 1 Total ETM		
LL3101.RunHours2	0	DINT
Aeration Blowers LL2 2 Total ETM		
LL3101.RunHours3	0	DINT
Aeration Blowers LL2 3 Total ETM		
LL3101.RunHours4	0	DINT
Aeration Blowers LL2 4 Total ETM		
LL3101.RunHours5	0	DINT
Aeration Blowers LL2 5 Total ETM		
LL3101.RunHours6	0	DINT
Aeration Blowers LL2 6 Total ETM		
LL3101.Position1SP	0	DINT
Aeration Blowers LL2 1 Lead/Lag Position SP		
LL3101.Position2SP	0	DINT
Aeration Blowers LL2 2 Lead/Lag Position SP		
LL3101.Position3SP	0	DINT
Aeration Blowers LL2 3 Lead/Lag Position SP		
LL3101.Position4SP	0	DINT
Aeration Blowers LL2 4 Lead/Lag Position SP		
LL3101.Position5SP	0	DINT
Aeration Blowers LL2 5 Lead/Lag Position SP		
LL3101.Position6SP	0	DINT
Aeration Blowers LL2 6 Lead/Lag Position SP		
LL3101.Position1	0	DINT
Aeration Blowers LL2 1 Lead/Lag Position		
<i>LL3101.Position1 - MainProgram/L3101_AerationBlower1_VFD - 20(GEQ), 20(NEQ)</i>		
LL3101.Position2	0	DINT
Aeration Blowers LL2 2 Lead/Lag Position		
LL3101.Position3	0	DINT
Aeration Blowers LL2 3 Lead/Lag Position		
LL3101.Position4	0	DINT
Aeration Blowers LL2 4 Lead/Lag Position		
LL3101.Position5	0	DINT
Aeration Blowers LL2 5 Lead/Lag Position		
LL3101.Position6	0	DINT
Aeration Blowers LL2 6 Lead/Lag Position		
LL3101.Delay0_1	5000	DINT
Aeration Blowers LL2 Call On 0 to 1 Delay (Milliseconds)		
LL3101.Delay1_2	10000	DINT
Aeration Blowers LL2 Call On 1 to 2 Delay (Milliseconds)		
LL3101.Delay2_3	15000	DINT
Aeration Blowers LL2 Call On 2 to 3 Delay (Milliseconds)		
LL3101.Delay3_4	20000	DINT
Aeration Blowers LL2 Call On 3 to 4 Delay (Milliseconds)		
LL3101.Delay4_5	25000	DINT
Aeration Blowers LL2 Call On 4 to 5 Delay (Milliseconds)		
LL3101.Delay5_6	30000	DINT

LL3101 (Continued)

Aeration Blowers LL2 Call On 5 to 6 Delay (Milliseconds)		
LL3101.Delay6_5	30000	DINT
Aeration Blowers LL2 Call Off 6 to 5 Delay (Milliseconds)		
LL3101.Delay5_4	25000	DINT
Aeration Blowers LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL3101.Delay4_3	20000	DINT
Aeration Blowers LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL3101.Delay3_2	15000	DINT
Aeration Blowers LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL3101.Delay2_1	10000	DINT
Aeration Blowers LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL3101.Delay1_0	5000	DINT
Aeration Blowers LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL3101.MaxOn	0	BOOL
Aeration Blowers LL2 Maximum Number of Devices are Running		
LL3101.On1	0	BOOL
Aeration Blowers LL2		
LL3101.On2	0	BOOL
Aeration Blowers LL2		
LL3101.On3	0	BOOL
Aeration Blowers LL2		
LL3101.On4	0	BOOL
Aeration Blowers LL2		
LL3101.On5	0	BOOL
Aeration Blowers LL2		
LL3101.On6	0	BOOL
Aeration Blowers LL2		
LL3101.CountUpOS	0	BOOL
Aeration Blowers LL2		
LL3101.CountDownOS	0	BOOL
Aeration Blowers LL2		

LL3201 LL PLC_SH

Sludge Pumps LL2		
Constant	No	
External Access:	Read/Write	
LL3201.EnableIn	1	BOOL
Sludge Pumps LL2 Enable Input - System Defined Parameter		
LL3201.EnableOut	1	BOOL
Sludge Pumps LL2 Enable Output - System Defined Parameter		
LL3201.AlternationMode	0	DINT
Sludge Pumps LL2 Alternation Mode		
LL3201.AlternationPRE	2400	DINT
Sludge Pumps LL2 Alternation Time Preset (0.01 HRS)		
LL3201.AlternationACC	0	DINT
Sludge Pumps LL2 Alternation Time Accumulated (0.01 HRS)		
LL3201.NextCall	0	DINT
Sludge Pumps LL2 (1)Increase Call (0)No Call (-1)Decrease Call		
LL3201.NextCallCountDown	0	DINT
Sludge Pumps LL2 Next Call Count Down (Milliseconds)		
LL3201.NextCalled	0	DINT
Sludge Pumps LL2 (Equipment Number)		
LL3201.CalledCount	0	DINT
Sludge Pumps LL2 Called Count		
<i>LL3201.CalledCount - MainProgram/L3201_AerationBlower2_VFD - 20(GEQ)</i>		
LL3201.ReadyCount	0	DINT
Sludge Pumps LL2 Ready Count		
LL3201.OnCountTotal	0	DINT
Sludge Pumps LL2 Total On Count		
LL3201.OnCountAuto	0	DINT
Sludge Pumps LL2 Auto On Count		
LL3201.OnCountMax	1	DINT
Sludge Pumps LL2 Maximum On Count		

LL3201 (Continued)

LL3201.Ready1	0	BOOL
Sludge Pumps LL2 1 Ready		
LL3201.Ready2	0	BOOL
Sludge Pumps LL2 2 Ready		
LL3201.Ready3	0	BOOL
Sludge Pumps LL2 3 Ready		
LL3201.Ready4	0	BOOL
Sludge Pumps LL2 4 Ready		
LL3201.Ready5	0	BOOL
Sludge Pumps LL2 5 Ready		
LL3201.Ready6	0	BOOL
Sludge Pumps LL2 6 Ready		
LL3201.RunHours1	0	DINT
Sludge Pumps LL2 1 Total ETM		
LL3201.RunHours2	0	DINT
Sludge Pumps LL2 2 Total ETM		
LL3201.RunHours3	0	DINT
Sludge Pumps LL2 3 Total ETM		
LL3201.RunHours4	0	DINT
Sludge Pumps LL2 4 Total ETM		
LL3201.RunHours5	0	DINT
Sludge Pumps LL2 5 Total ETM		
LL3201.RunHours6	0	DINT
Sludge Pumps LL2 6 Total ETM		
LL3201.Position1SP	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position SP		
LL3201.Position2SP	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position SP		
LL3201.Position3SP	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position SP		
LL3201.Position4SP	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position SP		
LL3201.Position5SP	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position SP		
LL3201.Position6SP	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position SP		
LL3201.Position1	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position		
<i>LL3201.Position1 - MainProgram/L3201_AerationBlower2_VFD - 20(GEQ), 20(NEQ)</i>		
LL3201.Position2	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position		
LL3201.Position3	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position		
LL3201.Position4	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position		
LL3201.Position5	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position		
LL3201.Position6	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position		
LL3201.Delay0_1	5000	DINT
Sludge Pumps LL2 Call On 0 to 1 Delay (Milliseconds)		
LL3201.Delay1_2	10000	DINT
Sludge Pumps LL2 Call On 1 to 2 Delay (Milliseconds)		
LL3201.Delay2_3	15000	DINT
Sludge Pumps LL2 Call On 2 to 3 Delay (Milliseconds)		
LL3201.Delay3_4	20000	DINT
Sludge Pumps LL2 Call On 3 to 4 Delay (Milliseconds)		
LL3201.Delay4_5	25000	DINT
Sludge Pumps LL2 Call On 4 to 5 Delay (Milliseconds)		
LL3201.Delay5_6	30000	DINT
Sludge Pumps LL2 Call On 5 to 6 Delay (Milliseconds)		
LL3201.Delay6_5	30000	DINT
Sludge Pumps LL2 Call Off 6 to 5 Delay (Milliseconds)		

LL3201 (Continued)

LL3201.Delay5_4	25000	DINT
Sludge Pumps LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL3201.Delay4_3	20000	DINT
Sludge Pumps LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL3201.Delay3_2	15000	DINT
Sludge Pumps LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL3201.Delay2_1	10000	DINT
Sludge Pumps LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL3201.Delay1_0	5000	DINT
Sludge Pumps LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL3201.MaxOn	0	BOOL
Sludge Pumps LL2 Maximum Number of Devices are Running		
LL3201.On1	0	BOOL
Sludge Pumps LL2		
LL3201.On2	0	BOOL
Sludge Pumps LL2		
LL3201.On3	0	BOOL
Sludge Pumps LL2		
LL3201.On4	0	BOOL
Sludge Pumps LL2		
LL3201.On5	0	BOOL
Sludge Pumps LL2		
LL3201.On6	0	BOOL
Sludge Pumps LL2		
LL3201.CountUpOS	0	BOOL
Sludge Pumps LL2		
LL3201.CountDownOS	0	BOOL
Sludge Pumps LL2		

Local:1:I		AB:1769_DI16:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:1:I.Data.0	0	BOOL	
<i>Local:1:I.Data.0 - MainProgram/L1101_SHT1_ControlValve - 0(XIC)</i>			
Local:1:I.Data.1	0	BOOL	
<i>Local:1:I.Data.1 - MainProgram/L1101_SHT1_ControlValve - 1(XIC)</i>			
Local:1:I.Data.2	0	BOOL	
<i>Local:1:I.Data.2 - MainProgram/L1101_SHT1_ControlValve - 2(XIC)</i>			
Local:1:I.Data.3	0	BOOL	
<i>Local:1:I.Data.3 - MainProgram/L1101_SHT1_ControlValve - 3(XIC)</i>			
Local:1:I.Data.4	0	BOOL	
<i>Local:1:I.Data.4 - MainProgram/L1201_SHT2_ControlValve - 0(XIC)</i>			
Local:1:I.Data.5	0	BOOL	
<i>Local:1:I.Data.5 - MainProgram/L1201_SHT2_ControlValve - 1(XIC)</i>			
Local:1:I.Data.6	0	BOOL	
<i>Local:1:I.Data.6 - MainProgram/L1201_SHT2_ControlValve - 2(XIC)</i>			
Local:1:I.Data.7	0	BOOL	
<i>Local:1:I.Data.7 - MainProgram/L1201_SHT2_ControlValve - 3(XIC)</i>			
Local:1:I.Data.8	0	BOOL	
<i>Local:1:I.Data.8 - MainProgram/L2101_Press1_SludgeValve - 0(XIC)</i>			
Local:1:I.Data.9	0	BOOL	
<i>Local:1:I.Data.9 - MainProgram/L2101_Press1_SludgeValve - 1(XIC)</i>			
Local:1:I.Data.10	0	BOOL	
<i>Local:1:I.Data.10 - MainProgram/L2101_Press1_SludgeValve - 2(XIC)</i>			
Local:1:I.Data.11	0	BOOL	
<i>Local:1:I.Data.11 - MainProgram/L2101_Press1_SludgeValve - 3(XIC)</i>			
Local:1:I.Data.12	0	BOOL	
<i>Local:1:I.Data.12 - MainProgram/L2201_Press2_SludgeValve - 0(XIC)</i>			
Local:1:I.Data.13	0	BOOL	
<i>Local:1:I.Data.13 - MainProgram/L2201_Press2_SludgeValve - 1(XIC)</i>			
Local:1:I.Data.14	0	BOOL	
<i>Local:1:I.Data.14 - MainProgram/L2201_Press2_SludgeValve - 2(XIC)</i>			
Local:1:I.Data.15	0	BOOL	

Local:1:I (Continued)

Local:1:I.Data.15 - MainProgram/L2201_Press2_SludgeValve - 3(XIC)

Local:2:I AB:1769_DI16:I:0 PLC_SH

Constant No
External Access: Read/Write

Local:2:I.Data.0 0 BOOL

Local:2:I.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - 0(XIC)

Local:2:I.Data.1 0 BOOL

Local:2:I.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - 1(XIC)

Local:2:I.Data.2 0 BOOL

Local:2:I.Data.2 - MainProgram/L2106_ScrewPressConveyor1 - 2(XIC)

Local:2:I.Data.3 0 BOOL

Local:2:I.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - 0(XIC)

Local:2:I.Data.4 0 BOOL

Local:2:I.Data.4 - MainProgram/L2206_ScrewPressConveyor2 - 1(XIC)

Local:2:I.Data.5 0 BOOL

Local:2:I.Data.5 - MainProgram/L2206_ScrewPressConveyor2 - 2(XIC)

Local:2:I.Data.9 0 BOOL

Local:2:I.Data.9 - MainProgram/L0000_Power - 0(XIC)

Local:2:I.Data.9 - MainProgram/MainRoutine - 3(XIC)

Local:2:I.Data.10 0 BOOL

Local:2:I.Data.10 - MainProgram/L0000_Intrusion - 0(XIC)

Local:2:I.Data.10 - MainProgram/MainRoutine - 4(XIO)

Local:2:I.Data.11 0 BOOL

Local:2:I.Data.11 - MainProgram/L0000_Power - 1(XIC)

Local:2:I.Data.12 1 BOOL

Local:2:I.Data.12 - MainProgram/L0000_Power - 2(XIO)

Local:2:I.Data.13 1 BOOL

Local:2:I.Data.13 - MainProgram/L0000_Power - 3(XIO)

Local:2:I.Data.14 1 BOOL

Local:2:I.Data.14 - MainProgram/L0000_Power - 4(XIO)

Local:2:I.Data.15 0 BOOL

Local:2:I.Data.15 - MainProgram/L0000_Power - 5(XIC)

Local:3:O AB:1769_DO8:O:0 PLC_SH

Constant No
External Access: Read/Write

Local:3:O.Data.0 0 BOOL

*Local:3:O.Data.0 - MainProgram/L1101_SHT1_ControlValve - *4(OTE)*

Local:3:O.Data.1 0 BOOL

*Local:3:O.Data.1 - MainProgram/L1101_SHT1_ControlValve - *5(OTE)*

Local:3:O.Data.2 0 BOOL

*Local:3:O.Data.2 - MainProgram/L1201_SHT2_ControlValve - *4(OTE)*

Local:3:O.Data.3 0 BOOL

*Local:3:O.Data.3 - MainProgram/L1201_SHT2_ControlValve - *5(OTE)*

Local:3:O.Data.4 0 BOOL

*Local:3:O.Data.4 - MainProgram/L2101_Press1_SludgeValve - *4(OTE)*

Local:3:O.Data.5 0 BOOL

*Local:3:O.Data.5 - MainProgram/L2101_Press1_SludgeValve - *5(OTE)*

*Local:3:O.Data.5 - MainProgram/L2201_Press2_SludgeValve - *4(OTE)*

Local:3:O.Data.6 0 BOOL

*Local:3:O.Data.6 - MainProgram/L2201_Press2_SludgeValve - *5(OTE)*

Local:4:O AB:1769_DO8:O:0 PLC_SH

Constant No
External Access: Read/Write

Local:4:O.Data.0 0 BOOL

*Local:4:O.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - *3(OTE)*

Local:4:O.Data.1 0 BOOL

*Local:4:O.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - *4(OTE)*

Local:4:O.Data.2 0 BOOL

*Local:4:O.Data.2 - MainProgram/L2206_ScrewPressConveyor2 - *3(OTE)*

Local:4:O.Data.3 0 BOOL

Local:4:O (Continued)

*Local:4:O.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - *4(OTE)*

Local:5:I AB:1769_IF8:I:0 PLC_SH

Constant No
External Access: Read/Write

Local:5:I.Ch0Data 0 INT

Local:5:I.Ch0Data - MainProgram/L1101_SHT1_Level - 0(MOV)

Local:5:I.Ch1Data 0 INT

Local:5:I.Ch1Data - MainProgram/L1102_SHT1_BlanketLevel - 0(MOV)

Local:5:I.Ch2Data 0 INT

Local:5:I.Ch2Data - MainProgram/L3103_AerBlower_Pressure - 0(MOV)

MinorFaultBits 0 DINT PLC_SH

Constant No
External Access: Read/Write

*MinorFaultBits - MainProgram/MainRoutine - *2(GSV)*

MinorFaultBits.10 0 BOOL

MinorFaultBits.10 - MainProgram/MainRoutine - 2(XIC)

MSG_TMR TIMER[50] PLC_SH

Message Timers
Constant No
External Access: Read/Write

MSG_TMR[0] TIMER

Message Timers

MSG_TMR[0].PRE 5000 DINT

Message Timers

MSG_TMR[0].ACC 1164 DINT

Message Timers

MSG_TMR[0].EN 1 BOOL

Message Timers

MSG_TMR[0].TT 1 BOOL

Message Timers

MSG_TMR[0].DN 0 BOOL

Message Timers

MSG_TMR[1] TIMER

Message Timers

*MSG_TMR[1] - MainProgram/Communications - *5(TON)*

MSG_TMR[1].PRE 500 DINT

Message Timers

MSG_TMR[1].ACC 219 DINT

Message Timers

MSG_TMR[1].EN 1 BOOL

Message Timers

MSG_TMR[1].TT 1 BOOL

Message Timers

MSG_TMR[1].DN 0 BOOL

Message Timers

MSG_TMR[1].DN - MainProgram/Communications - 20(XIC), 5(XIC)

MSG_TMR[2] TIMER

Message Timers

*MSG_TMR[2] - MainProgram/Communications - *6(TON)*

MSG_TMR[2].PRE 500 DINT

Message Timers

MSG_TMR[2].ACC 219 DINT

Message Timers

MSG_TMR[2].EN 1 BOOL

Message Timers

MSG_TMR[2].TT 1 BOOL

Message Timers

MSG_TMR[2].DN 0 BOOL

Message Timers

MSG_TMR[2].DN - MainProgram/Communications - 21(XIC), 6(XIC)

MSG_TMR (Continued)		
MSG_TMR[3]		TIMER
Message Timers		
<i>MSG_TMR[3] - MainProgram/Communications - *20(TON)</i>		
MSG_TMR[3].PRE	500	DINT
Message Timers		
MSG_TMR[3].ACC	219	DINT
Message Timers		
MSG_TMR[3].EN	1	BOOL
Message Timers		
MSG_TMR[3].TT	1	BOOL
Message Timers		
MSG_TMR[3].DN	0	BOOL
Message Timers		
MSG_TMR[4]		TIMER
Message Timers		
<i>MSG_TMR[4] - MainProgram/Communications - *21(TON)</i>		
MSG_TMR[4].PRE	500	DINT
Message Timers		
MSG_TMR[4].ACC	219	DINT
Message Timers		
MSG_TMR[4].EN	1	BOOL
Message Timers		
MSG_TMR[4].TT	1	BOOL
Message Timers		
MSG_TMR[4].DN	0	BOOL
Message Timers		
MSG_TMR[5]		TIMER
Message Timers		
<i>MSG_TMR[5] - MainProgram/Communications - *33(TON)</i>		
MSG_TMR[5].PRE	500	DINT
Message Timers		
MSG_TMR[5].ACC	379	DINT
Message Timers		
MSG_TMR[5].EN	1	BOOL
Message Timers		
MSG_TMR[5].TT	1	BOOL
Message Timers		
MSG_TMR[5].DN	0	BOOL
Message Timers		
<i>MSG_TMR[5].DN - MainProgram/Communications - 33(XIC)</i>		
MSG_TMR[6]		TIMER
Message Timers		
MSG_TMR[6].PRE	0	DINT
Message Timers		
MSG_TMR[6].ACC	0	DINT
Message Timers		
MSG_TMR[6].EN	0	BOOL
Message Timers		
MSG_TMR[6].TT	0	BOOL
Message Timers		
MSG_TMR[6].DN	0	BOOL
Message Timers		
MSG_TMR[7]		TIMER
Message Timers		
MSG_TMR[7].PRE	0	DINT
Message Timers		
MSG_TMR[7].ACC	0	DINT
Message Timers		
MSG_TMR[7].EN	0	BOOL
Message Timers		
MSG_TMR[7].TT	0	BOOL
Message Timers		
MSG_TMR[7].DN	0	BOOL

MSG_TMR (Continued)

Message Timers		
MSG_TMR[8]		TIMER
Message Timers		
MSG_TMR[8].PRE	0	DINT
Message Timers		
MSG_TMR[8].ACC	0	DINT
Message Timers		
MSG_TMR[8].EN	0	BOOL
Message Timers		
MSG_TMR[8].TT	0	BOOL
Message Timers		
MSG_TMR[8].DN	0	BOOL
Message Timers		
MSG_TMR[9]		TIMER
Message Timers		
MSG_TMR[9].PRE	0	DINT
Message Timers		
MSG_TMR[9].ACC	0	DINT
Message Timers		
MSG_TMR[9].EN	0	BOOL
Message Timers		
MSG_TMR[9].TT	0	BOOL
Message Timers		
MSG_TMR[9].DN	0	BOOL
Message Timers		
MSG_TMR[10]		TIMER
Message Timers		
MSG_TMR[10].PRE	0	DINT
Message Timers		
MSG_TMR[10].ACC	0	DINT
Message Timers		
MSG_TMR[10].EN	0	BOOL
Message Timers		
MSG_TMR[10].TT	0	BOOL
Message Timers		
MSG_TMR[10].DN	0	BOOL
Message Timers		
MSG_TMR[11]		TIMER
Message Timers		
MSG_TMR[11].PRE	0	DINT
Message Timers		
MSG_TMR[11].ACC	0	DINT
Message Timers		
MSG_TMR[11].EN	0	BOOL
Message Timers		
MSG_TMR[11].TT	0	BOOL
Message Timers		
MSG_TMR[11].DN	0	BOOL
Message Timers		
MSG_TMR[12]		TIMER
Message Timers		
MSG_TMR[12].PRE	0	DINT
Message Timers		
MSG_TMR[12].ACC	0	DINT
Message Timers		
MSG_TMR[12].EN	0	BOOL
Message Timers		
MSG_TMR[12].TT	0	BOOL
Message Timers		
MSG_TMR[12].DN	0	BOOL
Message Timers		
MSG_TMR[13]		TIMER
Message Timers		

MSG_TMR (Continued)		
MSG_TMR[13].PRE	0	DINT
Message Timers		
MSG_TMR[13].ACC	0	DINT
Message Timers		
MSG_TMR[13].EN	0	BOOL
Message Timers		
MSG_TMR[13].TT	0	BOOL
Message Timers		
MSG_TMR[13].DN	0	BOOL
Message Timers		
MSG_TMR[14]		TIMER
Message Timers		
MSG_TMR[14].PRE	0	DINT
Message Timers		
MSG_TMR[14].ACC	0	DINT
Message Timers		
MSG_TMR[14].EN	0	BOOL
Message Timers		
MSG_TMR[14].TT	0	BOOL
Message Timers		
MSG_TMR[14].DN	0	BOOL
Message Timers		
MSG_TMR[15]		TIMER
Message Timers		
MSG_TMR[15].PRE	0	DINT
Message Timers		
MSG_TMR[15].ACC	0	DINT
Message Timers		
MSG_TMR[15].EN	0	BOOL
Message Timers		
MSG_TMR[15].TT	0	BOOL
Message Timers		
MSG_TMR[15].DN	0	BOOL
Message Timers		
MSG_TMR[16]		TIMER
Message Timers		
MSG_TMR[16].PRE	0	DINT
Message Timers		
MSG_TMR[16].ACC	0	DINT
Message Timers		
MSG_TMR[16].EN	0	BOOL
Message Timers		
MSG_TMR[16].TT	0	BOOL
Message Timers		
MSG_TMR[16].DN	0	BOOL
Message Timers		
MSG_TMR[17]		TIMER
Message Timers		
MSG_TMR[17].PRE	0	DINT
Message Timers		
MSG_TMR[17].ACC	0	DINT
Message Timers		
MSG_TMR[17].EN	0	BOOL
Message Timers		
MSG_TMR[17].TT	0	BOOL
Message Timers		
MSG_TMR[17].DN	0	BOOL
Message Timers		
MSG_TMR[18]		TIMER
Message Timers		
MSG_TMR[18].PRE	0	DINT
Message Timers		
MSG_TMR[18].ACC	0	DINT

MSG_TMR (Continued)

Message Timers		
MSG_TMR[18].EN	0	BOOL
Message Timers		
MSG_TMR[18].TT	0	BOOL
Message Timers		
MSG_TMR[18].DN	0	BOOL
Message Timers		
MSG_TMR[19]		TIMER
Message Timers		
MSG_TMR[19].PRE	0	DINT
Message Timers		
MSG_TMR[19].ACC	0	DINT
Message Timers		
MSG_TMR[19].EN	0	BOOL
Message Timers		
MSG_TMR[19].TT	0	BOOL
Message Timers		
MSG_TMR[19].DN	0	BOOL
Message Timers		
MSG_TMR[20]		TIMER
Message Timers		
MSG_TMR[20].PRE	30000	DINT
Message Timers		
MSG_TMR[20].ACC	30015	DINT
Message Timers		
MSG_TMR[20].EN	0	BOOL
Message Timers		
MSG_TMR[20].TT	0	BOOL
Message Timers		
MSG_TMR[20].DN	0	BOOL
Message Timers		
MSG_TMR[21]		TIMER
Message Timers		
MSG_TMR[21].PRE	30000	DINT
Message Timers		
MSG_TMR[21].ACC	0	DINT
Message Timers		
MSG_TMR[21].EN	0	BOOL
Message Timers		
MSG_TMR[21].TT	0	BOOL
Message Timers		
MSG_TMR[21].DN	0	BOOL
Message Timers		
MSG_TMR[22]		TIMER
Message Timers		
MSG_TMR[22].PRE	0	DINT
Message Timers		
MSG_TMR[22].ACC	0	DINT
Message Timers		
MSG_TMR[22].EN	0	BOOL
Message Timers		
MSG_TMR[22].TT	0	BOOL
Message Timers		
MSG_TMR[22].DN	0	BOOL
Message Timers		
MSG_TMR[23]		TIMER
Message Timers		
MSG_TMR[23].PRE	0	DINT
Message Timers		
MSG_TMR[23].ACC	0	DINT
Message Timers		
MSG_TMR[23].EN	0	BOOL
Message Timers		

Tag Name	Value	Unit
MSG_TMR (Continued)		
MSG_TMR[23].TT	0	BOOL
Message Timers		
MSG_TMR[23].DN	0	BOOL
Message Timers		
MSG_TMR[24]		TIMER
Message Timers		
MSG_TMR[24].PRE	0	DINT
Message Timers		
MSG_TMR[24].ACC	0	DINT
Message Timers		
MSG_TMR[24].EN	0	BOOL
Message Timers		
MSG_TMR[24].TT	0	BOOL
Message Timers		
MSG_TMR[24].DN	0	BOOL
Message Timers		
MSG_TMR[25]		TIMER
Message Timers		
MSG_TMR[25].PRE	0	DINT
Message Timers		
MSG_TMR[25].ACC	0	DINT
Message Timers		
MSG_TMR[25].EN	0	BOOL
Message Timers		
MSG_TMR[25].TT	0	BOOL
Message Timers		
MSG_TMR[25].DN	0	BOOL
Message Timers		
MSG_TMR[26]		TIMER
Message Timers		
MSG_TMR[26].PRE	0	DINT
Message Timers		
MSG_TMR[26].ACC	0	DINT
Message Timers		
MSG_TMR[26].EN	0	BOOL
Message Timers		
MSG_TMR[26].TT	0	BOOL
Message Timers		
MSG_TMR[26].DN	0	BOOL
Message Timers		
MSG_TMR[27]		TIMER
Message Timers		
MSG_TMR[27].PRE	0	DINT
Message Timers		
MSG_TMR[27].ACC	0	DINT
Message Timers		
MSG_TMR[27].EN	0	BOOL
Message Timers		
MSG_TMR[27].TT	0	BOOL
Message Timers		
MSG_TMR[27].DN	0	BOOL
Message Timers		
MSG_TMR[28]		TIMER
Message Timers		
MSG_TMR[28].PRE	0	DINT
Message Timers		
MSG_TMR[28].ACC	0	DINT
Message Timers		
MSG_TMR[28].EN	0	BOOL
Message Timers		
MSG_TMR[28].TT	0	BOOL
Message Timers		
MSG_TMR[28].DN	0	BOOL
Message Timers		

MSG_TMR (Continued)

Message Timers		
MSG_TMR[29]		TIMER
Message Timers		
MSG_TMR[29].PRE	0	DINT
Message Timers		
MSG_TMR[29].ACC	0	DINT
Message Timers		
MSG_TMR[29].EN	0	BOOL
Message Timers		
MSG_TMR[29].TT	0	BOOL
Message Timers		
MSG_TMR[29].DN	0	BOOL
Message Timers		
MSG_TMR[30]		TIMER
Message Timers		
MSG_TMR[30].PRE	0	DINT
Message Timers		
MSG_TMR[30].ACC	0	DINT
Message Timers		
MSG_TMR[30].EN	0	BOOL
Message Timers		
MSG_TMR[30].TT	0	BOOL
Message Timers		
MSG_TMR[30].DN	0	BOOL
Message Timers		
MSG_TMR[31]		TIMER
Message Timers		
MSG_TMR[31].PRE	0	DINT
Message Timers		
MSG_TMR[31].ACC	0	DINT
Message Timers		
MSG_TMR[31].EN	0	BOOL
Message Timers		
MSG_TMR[31].TT	0	BOOL
Message Timers		
MSG_TMR[31].DN	0	BOOL
Message Timers		
MSG_TMR[32]		TIMER
Message Timers		
MSG_TMR[32].PRE	0	DINT
Message Timers		
MSG_TMR[32].ACC	0	DINT
Message Timers		
MSG_TMR[32].EN	0	BOOL
Message Timers		
MSG_TMR[32].TT	0	BOOL
Message Timers		
MSG_TMR[32].DN	0	BOOL
Message Timers		
MSG_TMR[33]		TIMER
Message Timers		
MSG_TMR[33].PRE	0	DINT
Message Timers		
MSG_TMR[33].ACC	0	DINT
Message Timers		
MSG_TMR[33].EN	0	BOOL
Message Timers		
MSG_TMR[33].TT	0	BOOL
Message Timers		
MSG_TMR[33].DN	0	BOOL
Message Timers		
MSG_TMR[34]		TIMER
Message Timers		

MSG_TMR (Continued)		
MSG_TMR[34].PRE	0	DINT
Message Timers		
MSG_TMR[34].ACC	0	DINT
Message Timers		
MSG_TMR[34].EN	0	BOOL
Message Timers		
MSG_TMR[34].TT	0	BOOL
Message Timers		
MSG_TMR[34].DN	0	BOOL
Message Timers		
MSG_TMR[35]		TIMER
Message Timers		
MSG_TMR[35].PRE	0	DINT
Message Timers		
MSG_TMR[35].ACC	0	DINT
Message Timers		
MSG_TMR[35].EN	0	BOOL
Message Timers		
MSG_TMR[35].TT	0	BOOL
Message Timers		
MSG_TMR[35].DN	0	BOOL
Message Timers		
MSG_TMR[36]		TIMER
Message Timers		
MSG_TMR[36].PRE	0	DINT
Message Timers		
MSG_TMR[36].ACC	0	DINT
Message Timers		
MSG_TMR[36].EN	0	BOOL
Message Timers		
MSG_TMR[36].TT	0	BOOL
Message Timers		
MSG_TMR[36].DN	0	BOOL
Message Timers		
MSG_TMR[37]		TIMER
Message Timers		
MSG_TMR[37].PRE	0	DINT
Message Timers		
MSG_TMR[37].ACC	0	DINT
Message Timers		
MSG_TMR[37].EN	0	BOOL
Message Timers		
MSG_TMR[37].TT	0	BOOL
Message Timers		
MSG_TMR[37].DN	0	BOOL
Message Timers		
MSG_TMR[38]		TIMER
Message Timers		
MSG_TMR[38].PRE	0	DINT
Message Timers		
MSG_TMR[38].ACC	0	DINT
Message Timers		
MSG_TMR[38].EN	0	BOOL
Message Timers		
MSG_TMR[38].TT	0	BOOL
Message Timers		
MSG_TMR[38].DN	0	BOOL
Message Timers		
MSG_TMR[39]		TIMER
Message Timers		
MSG_TMR[39].PRE	0	DINT
Message Timers		
MSG_TMR[39].ACC	0	DINT

MSG_TMR (Continued)

Message Timers		
MSG_TMR[39].EN	0	BOOL
Message Timers		
MSG_TMR[39].TT	0	BOOL
Message Timers		
MSG_TMR[39].DN	0	BOOL
Message Timers		
MSG_TMR[40]		TIMER
Message Timers		
MSG_TMR[40].PRE	0	DINT
Message Timers		
MSG_TMR[40].ACC	0	DINT
Message Timers		
MSG_TMR[40].EN	0	BOOL
Message Timers		
MSG_TMR[40].TT	0	BOOL
Message Timers		
MSG_TMR[40].DN	0	BOOL
Message Timers		
MSG_TMR[41]		TIMER
Message Timers		
MSG_TMR[41].PRE	0	DINT
Message Timers		
MSG_TMR[41].ACC	0	DINT
Message Timers		
MSG_TMR[41].EN	0	BOOL
Message Timers		
MSG_TMR[41].TT	0	BOOL
Message Timers		
MSG_TMR[41].DN	0	BOOL
Message Timers		
MSG_TMR[42]		TIMER
Message Timers		
MSG_TMR[42].PRE	0	DINT
Message Timers		
MSG_TMR[42].ACC	0	DINT
Message Timers		
MSG_TMR[42].EN	0	BOOL
Message Timers		
MSG_TMR[42].TT	0	BOOL
Message Timers		
MSG_TMR[42].DN	0	BOOL
Message Timers		
MSG_TMR[43]		TIMER
Message Timers		
MSG_TMR[43].PRE	0	DINT
Message Timers		
MSG_TMR[43].ACC	0	DINT
Message Timers		
MSG_TMR[43].EN	0	BOOL
Message Timers		
MSG_TMR[43].TT	0	BOOL
Message Timers		
MSG_TMR[43].DN	0	BOOL
Message Timers		
MSG_TMR[44]		TIMER
Message Timers		
MSG_TMR[44].PRE	0	DINT
Message Timers		
MSG_TMR[44].ACC	0	DINT
Message Timers		
MSG_TMR[44].EN	0	BOOL
Message Timers		

Tag Name	Value	Unit
MSG_TMR (Continued)		
MSG_TMR[44].TT	0	BOOL
Message Timers		
MSG_TMR[44].DN	0	BOOL
Message Timers		
MSG_TMR[45]		TIMER
Message Timers		
MSG_TMR[45].PRE	0	DINT
Message Timers		
MSG_TMR[45].ACC	0	DINT
Message Timers		
MSG_TMR[45].EN	0	BOOL
Message Timers		
MSG_TMR[45].TT	0	BOOL
Message Timers		
MSG_TMR[45].DN	0	BOOL
Message Timers		
MSG_TMR[46]		TIMER
Message Timers		
MSG_TMR[46].PRE	0	DINT
Message Timers		
MSG_TMR[46].ACC	0	DINT
Message Timers		
MSG_TMR[46].EN	0	BOOL
Message Timers		
MSG_TMR[46].TT	0	BOOL
Message Timers		
MSG_TMR[46].DN	0	BOOL
Message Timers		
MSG_TMR[47]		TIMER
Message Timers		
MSG_TMR[47].PRE	0	DINT
Message Timers		
MSG_TMR[47].ACC	0	DINT
Message Timers		
MSG_TMR[47].EN	0	BOOL
Message Timers		
MSG_TMR[47].TT	0	BOOL
Message Timers		
MSG_TMR[47].DN	0	BOOL
Message Timers		
MSG_TMR[48]		TIMER
Message Timers		
MSG_TMR[48].PRE	0	DINT
Message Timers		
MSG_TMR[48].ACC	0	DINT
Message Timers		
MSG_TMR[48].EN	0	BOOL
Message Timers		
MSG_TMR[48].TT	0	BOOL
Message Timers		
MSG_TMR[48].DN	0	BOOL
Message Timers		
MSG_TMR[49]		TIMER
Message Timers		
MSG_TMR[49].PRE	0	DINT
Message Timers		
MSG_TMR[49].ACC	0	DINT
Message Timers		
MSG_TMR[49].EN	0	BOOL
Message Timers		
MSG_TMR[49].TT	0	BOOL
Message Timers		
MSG_TMR[49].DN	0	BOOL
Message Timers		

MSG_TMR (Continued)

Message Timers

MSG01	MESSAGE	PLC_SH
Read DINT Data from PLC-PRESS1		
External Access: Read/Write		
<i>MSG01 - MainProgram/Communications - *13(SSV), *5(MSG)</i>		
MSG01.Flags 16#0290	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Flags.4 1	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.Flags.5 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.Flags.7 1	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.EW 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.ER 1	BOOL	
Read DINT Data from PLC-PRESS1		
<i>MSG01.ER - MainProgram/Communications - 5(XIC)</i>		
MSG01.DN 0	BOOL	
Read DINT Data from PLC-PRESS1		
<i>MSG01.DN - MainProgram/Communications - 5(XIC)</i>		
MSG01.ST 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.EN 1	BOOL	
Read DINT Data from PLC-PRESS1		
<i>MSG01.EN - MainProgram/Communications - *5(OTU)</i>		
MSG01.TO 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.EN_CC 1	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.ERR 16#0001	INT	
Read DINT Data from PLC-PRESS1		
MSG01.EXERR 16#0008_0311	DINT	
Read DINT Data from PLC-PRESS1		
MSG01.ERR_SRC 8	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.DN_LEN 0	INT	
Read DINT Data from PLC-PRESS1		
MSG01.REQ_LEN 5	INT	
Read DINT Data from PLC-PRESS1		
MSG01.DestinationLink 0	INT	
Read DINT Data from PLC-PRESS1		
MSG01.DestinationNode 8#000_000	INT	
Read DINT Data from PLC-PRESS1		
MSG01.SourceLink 0	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Class 16#0000	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Attribute 16#0000	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Instance 0	DINT	
Read DINT Data from PLC-PRESS1		
MSG01.LocalIndex 0	DINT	
Read DINT Data from PLC-PRESS1		
MSG01.Channel '\$00'	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.Rack 8#000	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.Group 0	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.Slot 0	SINT	
Read DINT Data from PLC-PRESS1		

MSG01 (Continued)		
MSG01.Path	'\$11\$0E192.168.108.10'	STRING
Read DINT Data from PLC-PRESS1		
MSG01.Path.LEN	16	DINT
Read DINT Data from PLC-PRESS1		
MSG01.Path.DATA		SINT
Read DINT Data from PLC-PRESS1		
MSG01.RemoteIndex	0	DINT
Read DINT Data from PLC-PRESS1		
MSG01.RemoteElement	'DATA_TO_SCADA_DINTS'	STRING
Read DINT Data from PLC-PRESS1		
MSG01.RemoteElement.LEN	19	DINT
Read DINT Data from PLC-PRESS1		
MSG01.RemoteElement.DATA		SINT
Read DINT Data from PLC-PRESS1		
MSG01.UnconnectedTimeout	3000000	DINT
Read DINT Data from PLC-PRESS1		
MSG01.ConnectionRate	7500000	DINT
Read DINT Data from PLC-PRESS1		
MSG01.TimeoutMultiplier	0	SINT
Read DINT Data from PLC-PRESS1		
MSG02		MESSAGE
Write DINT Data to PLC-PRESS1		
External Access:	Read/Write	
<i>MSG02 - MainProgram/Communications - *I4(SSV), *6(MSG)</i>		
MSG02.Flags	16#0290	INT
Write DINT Data to PLC-PRESS1		
MSG02.Flags.4	1	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.Flags.5	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.Flags.7	1	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.EW	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.ER	1	BOOL
Write DINT Data to PLC-PRESS1		
<i>MSG02.ER - MainProgram/Communications - 6(XIC)</i>		
MSG02.DN	0	BOOL
Write DINT Data to PLC-PRESS1		
<i>MSG02.DN - MainProgram/Communications - 6(XIC)</i>		
MSG02.ST	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.EN	1	BOOL
Write DINT Data to PLC-PRESS1		
<i>MSG02.EN - MainProgram/Communications - *6(OTU)</i>		
MSG02.TO	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.EN_CC	1	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.ERR	16#0001	INT
Write DINT Data to PLC-PRESS1		
MSG02.EXERR	16#0000_0311	DINT
Write DINT Data to PLC-PRESS1		
MSG02.ERR_SRC	8	SINT
Write DINT Data to PLC-PRESS1		
MSG02.DN_LEN	0	INT
Write DINT Data to PLC-PRESS1		
MSG02.REQ_LEN	1	INT
Write DINT Data to PLC-PRESS1		
MSG02.DestinationLink	0	INT
Write DINT Data to PLC-PRESS1		
MSG02.DestinationNode	8#000_000	INT

MSG02 (Continued)

Write DINT Data to PLC-PRESS1		
MSG02.SourceLink	0	INT
Write DINT Data to PLC-PRESS1		
MSG02.Class	16#0000	INT
Write DINT Data to PLC-PRESS1		
MSG02.Attribute	16#0000	INT
Write DINT Data to PLC-PRESS1		
MSG02.Instance	0	DINT
Write DINT Data to PLC-PRESS1		
MSG02.LocalIndex	0	DINT
Write DINT Data to PLC-PRESS1		
MSG02.Channel	'\$00'	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Rack	8#000	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Group	0	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Slot	0	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Path	'\$11\$0E192.168.108.10'	STRING
Write DINT Data to PLC-PRESS1		
MSG02.Path.LEN	16	DINT
Write DINT Data to PLC-PRESS1		
MSG02.Path.DATA		SINT
Write DINT Data to PLC-PRESS1		
MSG02.RemoteIndex	0	DINT
Write DINT Data to PLC-PRESS1		
MSG02.RemoteElement	'DATA_FROM_SCADA_DINT'	STRING
Write DINT Data to PLC-PRESS1		
MSG02.RemoteElement.LEN	20	DINT
Write DINT Data to PLC-PRESS1		
MSG02.RemoteElement.DATA		SINT
Write DINT Data to PLC-PRESS1		
MSG02.UnconnectedTimeout	3000000	DINT
Write DINT Data to PLC-PRESS1		
MSG02.ConnectionRate	7500000	DINT
Write DINT Data to PLC-PRESS1		
MSG02.TimeoutMultiplier	0	SINT
Write DINT Data to PLC-PRESS1		

MSG03 MESSAGE PLC_SH

Read DINT Data from PLC-PRESS2		
External Access:	Read/Write	
<i>MSG03 - MainProgram/Communications - *20(MSG), *28(SSV)</i>		
MSG03.Flags	16#0290	INT
Read DINT Data from PLC-PRESS2		
MSG03.Flags.4	1	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.Flags.5	0	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.Flags.7	1	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.EW	0	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.ER	1	BOOL
Read DINT Data from PLC-PRESS2		
<i>MSG03.ER - MainProgram/Communications - 20(XIC)</i>		
MSG03.DN	0	BOOL
Read DINT Data from PLC-PRESS2		
<i>MSG03.DN - MainProgram/Communications - 20(XIC)</i>		
MSG03.ST	0	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.EN	1	BOOL

MSG03 (Continued)

Read DINT Data from PLC-PRESS2
*MSG03.EN - MainProgram/Communications - *20(OTU)*

MSG03.TO 0 BOOL
 Read DINT Data from PLC-PRESS2

MSG03.EN_CC 1 BOOL
 Read DINT Data from PLC-PRESS2

MSG03.ERR 16#0001 INT
 Read DINT Data from PLC-PRESS2

MSG03.EXERR 16#0008_0311 DINT
 Read DINT Data from PLC-PRESS2

MSG03.ERR_SRC 8 SINT
 Read DINT Data from PLC-PRESS2

MSG03.DN_LEN 0 INT
 Read DINT Data from PLC-PRESS2

MSG03.REQ_LEN 5 INT
 Read DINT Data from PLC-PRESS2

MSG03.DestinationLink 0 INT
 Read DINT Data from PLC-PRESS2

MSG03.DestinationNode 8#000_000 INT
 Read DINT Data from PLC-PRESS2

MSG03.SourceLink 0 INT
 Read DINT Data from PLC-PRESS2

MSG03.Class 16#0000 INT
 Read DINT Data from PLC-PRESS2

MSG03.Attribute 16#0000 INT
 Read DINT Data from PLC-PRESS2

MSG03.Instance 0 DINT
 Read DINT Data from PLC-PRESS2

MSG03.LocalIndex 0 DINT
 Read DINT Data from PLC-PRESS2

MSG03.Channel '\$00' SINT
 Read DINT Data from PLC-PRESS2

MSG03.Rack 8#000 SINT
 Read DINT Data from PLC-PRESS2

MSG03.Group 0 SINT
 Read DINT Data from PLC-PRESS2

MSG03.Slot 0 SINT
 Read DINT Data from PLC-PRESS2

MSG03.Path '\$11\$0E192.168.108.20' STRING
 Read DINT Data from PLC-PRESS2

MSG03.Path.LEN 16 DINT
 Read DINT Data from PLC-PRESS2

MSG03.Path.DATA SINT
 Read DINT Data from PLC-PRESS2

MSG03.RemoteIndex 0 DINT
 Read DINT Data from PLC-PRESS2

MSG03.RemoteElement 'DATA_TO_SCADA_DINTS' STRING
 Read DINT Data from PLC-PRESS2

MSG03.RemoteElement.LEN 19 DINT
 Read DINT Data from PLC-PRESS2

MSG03.RemoteElement.DATA SINT
 Read DINT Data from PLC-PRESS2

MSG03.UnconnectedTimeout 3000000 DINT
 Read DINT Data from PLC-PRESS2

MSG03.ConnectionRate 7500000 DINT
 Read DINT Data from PLC-PRESS2

MSG03.TimeoutMultiplier 0 SINT
 Read DINT Data from PLC-PRESS2

MSG04 MESSAGE PLC_SH

Write DINT Data to PLC-PRESS2
 External Access: Read/Write
*MSG04 - MainProgram/Communications - *21(MSG), *29(SSV)*

MSG04 (Continued)

MSG04.Flags	16#0290	INT
Write DINT Data to PLC-PRESS2		
MSG04.Flags.4	1	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.Flags.5	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.Flags.7	1	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.EW	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.ER	1	BOOL
Write DINT Data to PLC-PRESS2		
<i>MSG04.ER - MainProgram/Communications - 21(XIC)</i>		
MSG04.DN	0	BOOL
Write DINT Data to PLC-PRESS2		
<i>MSG04.DN - MainProgram/Communications - 21(XIC)</i>		
MSG04.ST	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.EN	1	BOOL
Write DINT Data to PLC-PRESS2		
<i>MSG04.EN - MainProgram/Communications - *21(OTU)</i>		
MSG04.TO	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.EN_CC	1	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.ERR	16#0001	INT
Write DINT Data to PLC-PRESS2		
MSG04.EXERR	16#0000_0311	DINT
Write DINT Data to PLC-PRESS2		
MSG04.ERR_SRC	8	SINT
Write DINT Data to PLC-PRESS2		
MSG04.DN_LEN	0	INT
Write DINT Data to PLC-PRESS2		
MSG04.REQ_LEN	1	INT
Write DINT Data to PLC-PRESS2		
MSG04.DestinationLink	0	INT
Write DINT Data to PLC-PRESS2		
MSG04.DestinationNode	8#000_000	INT
Write DINT Data to PLC-PRESS2		
MSG04.SourceLink	0	INT
Write DINT Data to PLC-PRESS2		
MSG04.Class	16#0000	INT
Write DINT Data to PLC-PRESS2		
MSG04.Attribute	16#0000	INT
Write DINT Data to PLC-PRESS2		
MSG04.Instance	0	DINT
Write DINT Data to PLC-PRESS2		
MSG04.LocalIndex	0	DINT
Write DINT Data to PLC-PRESS2		
MSG04.Channel	'\$00'	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Rack	8#000	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Group	0	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Slot	0	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Path	'\$11\$0E192.168.108.20'	STRING
Write DINT Data to PLC-PRESS2		
MSG04.Path.LEN	16	DINT
Write DINT Data to PLC-PRESS2		
MSG04.Path.DATA		SINT
Write DINT Data to PLC-PRESS2		

MSG04 (Continued)			
MSG04.RemoteIndex	0	DINT	
Write DINT Data to PLC-PRESS2			
MSG04.RemoteElement	'DATA_FROM_SCADA_DINT'	STRING	
Write DINT Data to PLC-PRESS2			
MSG04.RemoteElement.LEN	20	DINT	
Write DINT Data to PLC-PRESS2			
MSG04.RemoteElement.DATA		SINT	
Write DINT Data to PLC-PRESS2			
MSG04.UnconnectedTimeout	3000000	DINT	
Write DINT Data to PLC-PRESS2			
MSG04.ConnectionRate	7500000	DINT	
Write DINT Data to PLC-PRESS2			
MSG04.TimeoutMultiplier	0	SINT	
Write DINT Data to PLC-PRESS2			
MSG05		MESSAGE	PLC_SH
External Access: Read/Write			
<i>MSG05 - MainProgram/Communications - *33(MSG)</i>			
MSG05.ER	0	BOOL	
<i>MSG05.ER - MainProgram/Communications - 33(XIC)</i>			
MSG05.DN	1	BOOL	
<i>MSG05.DN - MainProgram/Communications - 33(XIC)</i>			
MSG05.EN	1	BOOL	
<i>MSG05.EN - MainProgram/Communications - *33(OTU)</i>			
ONS1100		BOOL[32]	PLC_SH
Constant No			
External Access: Read/Write			
ONS1100[0]	0	BOOL	
<i>ONS1100[0] - MainProgram/L1100_PressControl - *5(ONS)</i>			
ONS1100[1]	0	BOOL	
<i>ONS1100[1] - MainProgram/L1100_PressControl - *6(ONS)</i>			
OSC1101		OSC	PLC_SH
Solids Holding Tank 1 Control Valve			
Constant No			
External Access: Read/Write			
<i>OSC1101 - MainProgram/L1101_SHT1_ControlValve - *14(OSC)</i>			
OSC1101.EnableIn	0	BOOL	
Solids Holding Tank 1 Control Valve Enable Input - System Defined Parameter			
OSC1101.EnableOut	0	BOOL	
Solids Holding Tank 1 Control Valve Enable Output - System Defined Parameter			
OSC1101.HMIAuto	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Auto			
OSC1101.AutoOpen	0	BOOL	
Solids Holding Tank 1 Control Valve Auto Open Command			
<i>OSC1101.AutoOpen - MainProgram/L1101_SHT1_ControlValve - *12(O TE), 13(XIO)</i>			
OSC1101.HMIOpen	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Manual Open			
OSC1101.HMIStop	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Manual Stop			
OSC1101.HMIClose	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Manual Close			
OSC1101.OpenCmd	0	BOOL	
Solids Holding Tank 1 Control Valve Open Command			
<i>OSC1101.OpenCmd - MainProgram/L1101_SHT1_ControlValve - 4(XIC), 6(XIC)</i>			
OSC1101.AutoClose	1	BOOL	
Solids Holding Tank 1 Control Valve Auto Close Command			
<i>OSC1101.AutoClose - MainProgram/L1101_SHT1_ControlValve - *13(O TE)</i>			
OSC1101.AutoStop	0	BOOL	
Solids Holding Tank 1 Control Valve Auto Stop Command			
OSC1101.CloseCmd	0	BOOL	
Solids Holding Tank 1 Control Valve Close Command			

OSC1101 (Continued)

OSC1101.CloseCmd - MainProgram/L1101_SHT1_ControlValve - 5(XIC), 7(XIC)

OSC1101.StopCmd 1 BOOL
Solids Holding Tank 1 Control Valve Stop Command

OSC1201 OSC PLC_SH

Solids Holding Tank 2 Control Valve

Constant No

External Access: Read/Write

*OSC1201 - MainProgram/L1201_SHT2_ControlValve - *14(OSC)*

OSC1201.EnableIn 0 BOOL
Solids Holding Tank 2 Control Valve Enable Input - System Defined Parameter

OSC1201.EnableOut 0 BOOL
Solids Holding Tank 2 Control Valve Enable Output - System Defined Parameter

OSC1201.HMIAuto 0 BOOL
Solids Holding Tank 2 Control Valve HMI Auto

OSC1201.AutoOpen 0 BOOL
Solids Holding Tank 2 Control Valve Auto Open Command

*OSC1201.AutoOpen - MainProgram/L1201_SHT2_ControlValve - *12(O TE), 13(XIO)*

OSC1201.HMIOpen 0 BOOL
Solids Holding Tank 2 Control Valve HMI Manual Open

OSC1201.HMIStop 0 BOOL
Solids Holding Tank 2 Control Valve HMI Manual Stop

OSC1201.HMIClose 0 BOOL
Solids Holding Tank 2 Control Valve HMI Manual Close

OSC1201.OpenCmd 0 BOOL
Solids Holding Tank 2 Control Valve Open Command

OSC1201.OpenCmd - MainProgram/L1201_SHT2_ControlValve - 4(XIC), 6(XIC)

OSC1201.AutoClose 1 BOOL
Solids Holding Tank 2 Control Valve Auto Close Command

*OSC1201.AutoClose - MainProgram/L1201_SHT2_ControlValve - *13(O TE)*

OSC1201.AutoStop 0 BOOL
Solids Holding Tank 2 Control Valve Auto Stop Command

OSC1201.CloseCmd 0 BOOL
Solids Holding Tank 2 Control Valve Close Command

OSC1201.CloseCmd - MainProgram/L1201_SHT2_ControlValve - 5(XIC), 7(XIC)

OSC1201.StopCmd 1 BOOL
Solids Holding Tank 2 Control Valve Stop Command

OSC2101 OSC PLC_SH

Press 1 Sludge Valve

Constant No

External Access: Read/Write

*OSC2101 - MainProgram/L2101_Press1_SludgeValve - *14(OSC)*

OSC2101.EnableIn 0 BOOL
Press 1 Sludge Valve Enable Input - System Defined Parameter

OSC2101.EnableOut 0 BOOL
Press 1 Sludge Valve Enable Output - System Defined Parameter

OSC2101.HMIAuto 0 BOOL
Press 1 Sludge Valve HMI Auto

OSC2101.HMIAuto - MainProgram/L1100_PressControl - 3(XIO)

OSC2101.AutoOpen 0 BOOL
Press 1 Sludge Valve Auto Open Command

*OSC2101.AutoOpen - MainProgram/L2101_Press1_SludgeValve - *12(O TE), 13(XIO)*

OSC2101.HMIOpen 0 BOOL
Press 1 Sludge Valve HMI Manual Open

OSC2101.HMIStop 0 BOOL
Press 1 Sludge Valve HMI Manual Stop

OSC2101.HMIClose 0 BOOL
Press 1 Sludge Valve HMI Manual Close

OSC2101.OpenCmd 0 BOOL
Press 1 Sludge Valve Open Command

OSC2101.OpenCmd - MainProgram/L2101_Press1_SludgeValve - 4(XIC), 6(XIC)

OSC2101.AutoClose 1 BOOL

OSC2101 (Continued)

Press 1 Sludge Valve Auto Close Command
*OSC2101.AutoClose - MainProgram/L2101_Press1_SludgeValve - *13(OTE)*

OSC2101.AutoStop 0 BOOL

Press 1 Sludge Valve Auto Stop Command

OSC2101.CloseCmd 0 BOOL

Press 1 Sludge Valve Close Command
OSC2101.CloseCmd - MainProgram/L2101_Press1_SludgeValve - 5(XIC), 7(XIC)

OSC2101.StopCmd 1 BOOL

Press 1 Sludge Valve Stop Command

OSC2201 OSC PLC_SH

Press 2 Sludge Valve
 Constant No
 External Access: Read/Write
*OSC2201 - MainProgram/L2201_Press2_SludgeValve - *14(OSC)*

OSC2201.EnableIn 0 BOOL

Press 2 Sludge Valve Enable Input - System Defined Parameter

OSC2201.EnableOut 0 BOOL

Press 2 Sludge Valve Enable Output - System Defined Parameter

OSC2201.HMIAuto 0 BOOL

Press 2 Sludge Valve HMI Auto
OSC2201.HMIAuto - MainProgram/L1100_PressControl - 4(XIO)

OSC2201.AutoOpen 0 BOOL

Press 2 Sludge Valve Auto Open Command
*OSC2201.AutoOpen - MainProgram/L2201_Press2_SludgeValve - *12(OTE), 13(XIO)*

OSC2201.HMIOpen 0 BOOL

Press 2 Sludge Valve HMI Manual Open

OSC2201.HMIStop 0 BOOL

Press 2 Sludge Valve HMI Manual Stop

OSC2201.HMIClose 0 BOOL

Press 2 Sludge Valve HMI Manual Close

OSC2201.OpenCmd 0 BOOL

Press 2 Sludge Valve Open Command
OSC2201.OpenCmd - MainProgram/L2201_Press2_SludgeValve - 4(XIC), 6(XIC)

OSC2201.AutoClose 1 BOOL

Press 2 Sludge Valve Auto Close Command
*OSC2201.AutoClose - MainProgram/L2201_Press2_SludgeValve - *13(OTE)*

OSC2201.AutoStop 0 BOOL

Press 2 Sludge Valve Auto Stop Command

OSC2201.CloseCmd 0 BOOL

Press 2 Sludge Valve Close Command
OSC2201.CloseCmd - MainProgram/L2201_Press2_SludgeValve - 5(XIC), 7(XIC)

OSC2201.StopCmd 1 BOOL

Press 2 Sludge Valve Stop Command

P1104 DG1 PLC_SH

Sludge Feed Pump 1
 Constant No
 External Access: Read/Write
*P1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *(DG1)*

P1104.EnableIn 1 BOOL

Sludge Feed Pump 1 Enable Input - System Defined Parameter

P1104.EnableOut 1 BOOL

Sludge Feed Pump 1 Enable Output - System Defined Parameter

P1104.Comm_Fault 1 BOOL

Sludge Feed Pump 1

P1104.NetCtrl 1 BOOL

Sludge Feed Pump 1
*P1104.NetCtrl - MainProgram/L1104_SludgeFeedPump1_VFD - *(OTE)*

P1104.NetRef 0 BOOL

Sludge Feed Pump 1
*P1104.NetRef - MainProgram/L1104_SludgeFeedPump1_VFD - *(OTE)*

P1104.Ready 0 BOOL

P1104 (Continued)		
Sludge Feed Pump 1		
<i>P1104.Ready - MainProgram/L1104_SludgeFeedPump1_VFD - 1(XIC)</i>		
P1104.Running	0	BOOL
Sludge Feed Pump 1		
<i>P1104.Running - MainProgram/L1104_SludgeFeedPump1_VFD - 3(XIC)</i>		
P1104.Direction	0	BOOL
Sludge Feed Pump 1		
P1104.Faulted	0	BOOL
Sludge Feed Pump 1		
<i>P1104.Faulted - MainProgram/L1104_SludgeFeedPump1_VFD - 4(XIC)</i>		
P1104.Warning	0	BOOL
Sludge Feed Pump 1		
P1104.At_Reference	0	BOOL
Sludge Feed Pump 1		
P1104.ZeroSpeed	0	BOOL
Sludge Feed Pump 1		
P1104.FluxReady	0	BOOL
Sludge Feed Pump 1		
P1104.Speed	0.0	REAL
Sludge Feed Pump 1		
P1104.Frequency	0.0	REAL
Sludge Feed Pump 1		
<i>P1104.Frequency - MainProgram/L1104_SludgeFeedPump1_VFD - 6(MOV)</i>		
P1104.Speed_RPM	0.0	REAL
Sludge Feed Pump 1		
P1104.Current	0.0	REAL
Sludge Feed Pump 1		
P1104.Torque	0.0	REAL
Sludge Feed Pump 1		
P1104.Power	0.0	REAL
Sludge Feed Pump 1		
P1104.Voltage	0.0	REAL
Sludge Feed Pump 1		
P1104.InputPower	0.0	REAL
Sludge Feed Pump 1		
P1104.DIN1	0	BOOL
Sludge Feed Pump 1		
P1104.DIN2	0	BOOL
Sludge Feed Pump 1		
P1104.DIN3	0	BOOL
Sludge Feed Pump 1		
P1104.DIN4	0	BOOL
Sludge Feed Pump 1		
P1104.DIN5	0	BOOL
Sludge Feed Pump 1		
P1104.DIN6	0	BOOL
Sludge Feed Pump 1		
P1104.DIN7	0	BOOL
Sludge Feed Pump 1		
P1104.DIN8	0	BOOL
Sludge Feed Pump 1		
<i>P1104.DIN8 - MainProgram/L1104_SludgeFeedPump1_VFD - 2(XIC)</i>		
P1104.DO1	0	BOOL
Sludge Feed Pump 1		
P1104.RO1	0	BOOL
Sludge Feed Pump 1		
P1104.RO2	0	BOOL
Sludge Feed Pump 1		
P1104.RO3	0	BOOL
Sludge Feed Pump 1		
P1104.Binary	0	DINT
Sludge Feed Pump 1		
P1104.FaultCode	0	DINT

P1104 (Continued)

Sludge Feed Pump 1		
P1104.FaultReset	0	BOOL
Sludge Feed Pump 1		
P1104.SpeedPercentFactor	100	DINT
Sludge Feed Pump 1		
P1104.FrequencyFactor	10	DINT
Sludge Feed Pump 1		
P1104.SpeedRPMFactor	1	DINT
Sludge Feed Pump 1		
P1104.CurrentFactor	10	DINT
Sludge Feed Pump 1		
P1104.TorqueFactor	10	DINT
Sludge Feed Pump 1		
P1104.PowerFactor	1	DINT
Sludge Feed Pump 1		
P1104.FwdCmd	0	BOOL
Sludge Feed Pump 1		
<i>P1104.FwdCmd - MainProgram/L1104_SludgeFeedPump1_VFD - *5(OTE)</i>		
P1104.RevCmd	0	BOOL
Sludge Feed Pump 1		
P1104.ReferenceFactor	10	DINT
Sludge Feed Pump 1 Speed Reference Scale Factor (10)		
P1104.SpeedReference	0.0	REAL
Sludge Feed Pump 1 RPM		
<i>P1104.SpeedReference - MainProgram/L1104_SludgeFeedPump1_VFD - *7(MOV)</i>		

P1204 DG1 PLC_SH

Sludge Feed Pump 2		
Constant	No	
External Access:	Read/Write	
<i>P1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *0(DG1)</i>		
P1204.EnableIn	1	BOOL
Sludge Feed Pump 2 Enable Input - System Defined Parameter		
P1204.EnableOut	1	BOOL
Sludge Feed Pump 2 Enable Output - System Defined Parameter		
P1204.Comm_Fault	1	BOOL
Sludge Feed Pump 2		
P1204.NetCtrl	1	BOOL
Sludge Feed Pump 2		
<i>P1204.NetCtrl - MainProgram/L1204_SludgeFeedPump2_VFD - *0(OTE)</i>		
P1204.NetRef	0	BOOL
Sludge Feed Pump 2		
<i>P1204.NetRef - MainProgram/L1204_SludgeFeedPump2_VFD - *1(OTE)</i>		
P1204.Ready	0	BOOL
Sludge Feed Pump 2		
<i>P1204.Ready - MainProgram/L1204_SludgeFeedPump2_VFD - 1(XIC)</i>		
P1204.Running	0	BOOL
Sludge Feed Pump 2		
<i>P1204.Running - MainProgram/L1204_SludgeFeedPump2_VFD - 3(XIC)</i>		
P1204.Direction	0	BOOL
Sludge Feed Pump 2		
P1204.Faulted	0	BOOL
Sludge Feed Pump 2		
<i>P1204.Faulted - MainProgram/L1204_SludgeFeedPump2_VFD - 4(XIC)</i>		
P1204.Warning	0	BOOL
Sludge Feed Pump 2		
P1204.At_Reference	0	BOOL
Sludge Feed Pump 2		
P1204.ZeroSpeed	0	BOOL
Sludge Feed Pump 2		
P1204.FluxReady	0	BOOL
Sludge Feed Pump 2		
P1204.Speed	0.0	REAL

P1204 (Continued)		
Sludge Feed Pump 2		
P1204.Frequency	0.0	REAL
Sludge Feed Pump 2		
<i>P1204.Frequency - MainProgram/L1204_SludgeFeedPump2_VFD - 6(MOV)</i>		
P1204.Speed_RPM	0.0	REAL
Sludge Feed Pump 2		
P1204.Current	0.0	REAL
Sludge Feed Pump 2		
P1204.Torque	0.0	REAL
Sludge Feed Pump 2		
P1204.Power	0.0	REAL
Sludge Feed Pump 2		
P1204.Voltage	0.0	REAL
Sludge Feed Pump 2		
P1204.InputPower	0.0	REAL
Sludge Feed Pump 2		
P1204.DIN1	0	BOOL
Sludge Feed Pump 2		
P1204.DIN2	0	BOOL
Sludge Feed Pump 2		
P1204.DIN3	0	BOOL
Sludge Feed Pump 2		
P1204.DIN4	0	BOOL
Sludge Feed Pump 2		
P1204.DIN5	0	BOOL
Sludge Feed Pump 2		
P1204.DIN6	0	BOOL
Sludge Feed Pump 2		
P1204.DIN7	0	BOOL
Sludge Feed Pump 2		
P1204.DIN8	0	BOOL
Sludge Feed Pump 2		
<i>P1204.DIN8 - MainProgram/L1204_SludgeFeedPump2_VFD - 2(XIC)</i>		
P1204.DO1	0	BOOL
Sludge Feed Pump 2		
P1204.RO1	0	BOOL
Sludge Feed Pump 2		
P1204.RO2	0	BOOL
Sludge Feed Pump 2		
P1204.RO3	0	BOOL
Sludge Feed Pump 2		
P1204.Binary	0	DINT
Sludge Feed Pump 2		
P1204.FaultCode	0	DINT
Sludge Feed Pump 2		
P1204.FaultReset	0	BOOL
Sludge Feed Pump 2		
P1204.SpeedPercentFactor	100	DINT
Sludge Feed Pump 2		
P1204.FrequencyFactor	10	DINT
Sludge Feed Pump 2		
P1204.SpeedRPMFactor	1	DINT
Sludge Feed Pump 2		
P1204.CurrentFactor	10	DINT
Sludge Feed Pump 2		
P1204.TorqueFactor	10	DINT
Sludge Feed Pump 2		
P1204.PowerFactor	1	DINT
Sludge Feed Pump 2		
P1204.FwdCmd	0	BOOL
Sludge Feed Pump 2		
<i>P1204.FwdCmd - MainProgram/L1204_SludgeFeedPump2_VFD - *5(OTE)</i>		
P1204.RevCmd	0	BOOL

P1204 (Continued)

Sludge Feed Pump 2		
P1204.ReferenceFactor	10	DINT
Sludge Feed Pump 2 Speed Reference Scale Factor (10)		
P1204.SpeedReference	0.0	REAL
Sludge Feed Pump 2 RPM		
<i>P1204.SpeedReference - MainProgram/L1204_SludgeFeedPump2_VFD - *7(MOV)</i>		

PAH0000 ALRM PLC_SH

Panel High Temperature Alarm		
Constant	No	
External Access:	Read/Write	
<i>PAH0000 - MainProgram/L0000_Power - *6(ALRM)</i>		
PAH0000.EnableIn	0	BOOL
Panel High Temperature Alarm Enable Input - System Defined Parameter		
PAH0000.EnableOut	0	BOOL
Panel High Temperature Alarm Enable Output - System Defined Parameter		
PAH0000.Latched	0	BOOL
Panel High Temperature Alarm		
PAH0000.OperReset	0	BOOL
Panel High Temperature Alarm		
PAH0000.ProgReset	0	BOOL
Panel High Temperature Alarm		
PAH0000.OperDisable	0	BOOL
Panel High Temperature Alarm		
PAH0000.OperEnable	0	BOOL
Panel High Temperature Alarm		
PAH0000.AlarmCountReset	0	BOOL
Panel High Temperature Alarm Set to 1 to reset alarm count		
PAH0000.InAlarm	0	BOOL
Panel High Temperature Alarm		
PAH0000.Disabled	0	BOOL
Panel High Temperature Alarm		
PAH0000.MinDurationPRE	5000	DINT
Panel High Temperature Alarm		
PAH0000.MinDurationACC	0	DINT
Panel High Temperature Alarm		
PAH0000.AlarmCount	0	DINT
Panel High Temperature Alarm		
PAH0000.InAlarmDate	0	DINT
Panel High Temperature Alarm		
PAH0000.InAlarmTime	0	DINT
Panel High Temperature Alarm		
PAH0000.RetToNormalDate	0	DINT
Panel High Temperature Alarm		
PAH0000.RetToNormalTime	0	DINT
Panel High Temperature Alarm		
PAH0000.AlarmCountResetDate	0	DINT
Panel High Temperature Alarm		
PAH0000.AlarmCountResetTime	0	DINT
Panel High Temperature Alarm		

PAH1104 ALRM PLC_SH

Sludge Feed Pump 1 Discharge Pressure Alarm High		
Constant	No	
External Access:	Read/Write	
<i>PAH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *13(ALRM)</i>		
PAH1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High Enable Input - System Defined Parameter		
PAH1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High Enable Output - System Defined Parameter		
PAH1104.Latched	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.OperReset	0	BOOL

PAH1104 (Continued)

Sludge Feed Pump 1 Discharge Pressure Alarm High		
<i>PAH1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
PAH1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
<i>PAH1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
PAH1104.Disabled	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		

PAH1204 ALRM PLC_SH

Sludge Feed Pump 2 Discharge Pressure Alarm High		
Constant	No	
External Access:	Read/Write	
<i>PAH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *13(ALRM)</i>		
PAH1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High Enable Input - System Defined Parameter		
PAH1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High Enable Output - System Defined Parameter		
PAH1204.Latched	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.OperReset	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
<i>PAH1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
PAH1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
<i>PAH1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
PAH1204.Disabled	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		

PAH1204 (Continued)

PAH1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		

PAH3101 ALRM PLC_SH

Aeration Blower 1 Discharge Pressure Alarm High		
Constant	No	
External Access:	Read/Write	
<i>PAH3101 - MainProgram/L3101_AerationBlower1_VFD - *11(ALRM)</i>		
PAH3101.EnableIn	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High Enable Input - System Defined Parameter		
PAH3101.EnableOut	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High Enable Output - System Defined Parameter		
PAH3101.Latched	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.OperReset	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
<i>PAH3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
PAH3101.ProgReset	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.OperDisable	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.OperEnable	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH3101.InAlarm	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
<i>PAH3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
PAH3101.Disabled	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.MinDurationPRE	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.MinDurationACC	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCount	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.InAlarmDate	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.InAlarmTime	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.RetToNormalDate	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.RetToNormalTime	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		

PAH3103		ALRM	PLC_SH
Aeration Blower Pressure Alarm High			
Constant	No		
External Access:	Read/Write		
<i>PAH3103 - MainProgram/L3103_AerBlower_Pressure - *2(ALRM)</i>			
PAH3103.EnableIn	0	BOOL	
Aeration Blower Pressure Alarm High Enable Input - System Defined Parameter			
PAH3103.EnableOut	0	BOOL	
Aeration Blower Pressure Alarm High Enable Output - System Defined Parameter			
PAH3103.Latched	1	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.OperReset	0	BOOL	
Aeration Blower Pressure Alarm High			
<i>PAH3103.OperReset - MainProgram/L3103_AerBlower_Pressure - *4(OTL)</i>			
PAH3103.ProgReset	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.OperDisable	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.OperEnable	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCountReset	0	BOOL	
Aeration Blower Pressure Alarm High Set to 1 to reset alarm count			
PAH3103.InAlarm	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.Disabled	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.MinDurationPRE	30000	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.MinDurationACC	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCount	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.InAlarmDate	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.InAlarmTime	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.RetToNormalDate	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.RetToNormalTime	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCountResetDate	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCountResetTime	0	DINT	
Aeration Blower Pressure Alarm High			

PAH3201		ALRM	PLC_SH
Aeration Blower 2 Discharge Pressure Alarm High			
Constant	No		
External Access:	Read/Write		
<i>PAH3201 - MainProgram/L3201_AerationBlower2_VFD - *11(ALRM)</i>			
PAH3201.EnableIn	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High Enable Input - System Defined Parameter			
PAH3201.EnableOut	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High Enable Output - System Defined Parameter			
PAH3201.Latched	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High			
PAH3201.OperReset	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High			
<i>PAH3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
PAH3201.ProgReset	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High			
PAH3201.OperDisable	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High			
PAH3201.OperEnable	0	BOOL	

PAH3201 (Continued)

Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH3201.InAlarm	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High		
<i>PAH3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
PAH3201.Disabled	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.MinDurationPRE	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.MinDurationACC	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCount	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.InAlarmDate	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.InAlarmTime	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.RetToNormalDate	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.RetToNormalTime	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCountResetDate	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCountResetTime	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		

PAL1104 ALRM PLC_SH

Sludge Feed Pump 1		
Section	Pressure Alarm Low	No
External Access:		Read/Write
<i>PAL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *12(ALRM)</i>		
PAL1104.EnableIn	0	BOOL
Sludge Feed Pump 1		
PAL1104.EnableOut	Alarm Low Enable	Input - System Defined Parameter
Sludge Feed Pump 1		
PAL1104.PatchOut	Alarm Low Enable	Output - System Defined Parameter
Sludge Feed Pump 1		
PAL1104.OperReset	Alarm Low	0
Sludge Feed Pump 1		
<i>Sludge Feed Pump 1 Alarm Low - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
PAL1104.ProgReset	0	BOOL
Sludge Feed Pump 1		
PAL1104.OperDisable	Alarm Low	0
Sludge Feed Pump 1		
PAL1104.OperEnable	Alarm Low	0
Sludge Feed Pump 1		
PAL1104.PressureCountReset	0	BOOL
Sludge Feed Pump 1		
PAL1104.PressureAlarm	Alarm Low Set to 0	0 to reset alarm count
Sludge Feed Pump 1		
<i>Sludge Feed Pump 1 Alarm Low - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
PAL1104.Disabled	0	BOOL
Sludge Feed Pump 1		
PAL1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1		
PAL1104.MinDurationACC	0	DINT
Sludge Feed Pump 1		
PAL1104.PressureCount	0	DINT
Sludge Feed Pump 1		
PAL1104.PressureDate	0	DINT
Sludge Feed Pump 1		

PAL1104 (Continued)		
Sludge Feed Pump 1		
PAL1104.InAlarmTime	0	DINT
Sludge Feed Pump 1		
PAL1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1		
PAL1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1		
PAL1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1		
PAL1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1		
Suction Pressure Alarm Low		
PAL1204	ALRM	PLC_SH
Sludge Feed Pump 2 Suction Pressure Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>PAL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *12(ALRM)</i>		
PAL1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low Enable Input - System Defined Parameter		
PAL1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low Enable Output - System Defined Parameter		
PAL1204.Latched	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.OperReset	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
<i>PAL1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
PAL1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low Set to 1 to reset alarm count		
PAL1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
<i>PAL1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
PAL1204.Disabled	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL3101	ALRM	PLC_SH
Aeration Blower 1 Suction Pressure Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>PAL3101 - MainProgram/L3101_AerationBlower1_VFD - *10(ALRM)</i>		

PAL3101 (Continued)

PAL3101.EnableIn	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low Enable Input - System Defined Parameter		
PAL3101.EnableOut	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low Enable Output - System Defined Parameter		
PAL3101.Latched	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.OperReset	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
<i>PAL3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
PAL3101.ProgReset	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.OperDisable	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.OperEnable	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low Set to 1 to reset alarm count		
PAL3101.InAlarm	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
<i>PAL3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
PAL3101.Disabled	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.MinDurationPRE	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.MinDurationACC	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.AlarmCount	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.InAlarmDate	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.InAlarmTime	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.RetToNormalDate	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.RetToNormalTime	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		

PAL3103 ALRM PLC_SH

Aeration Blower Pressure Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>PAL3103 - MainProgram/L3103_AerBlower_Pressure - *3(ALRM)</i>		
PAL3103.EnableIn	0	BOOL
Aeration Blower Pressure Alarm Low Enable Input - System Defined Parameter		
PAL3103.EnableOut	0	BOOL
Aeration Blower Pressure Alarm Low Enable Output - System Defined Parameter		
PAL3103.Latched	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.OperReset	0	BOOL
Aeration Blower Pressure Alarm Low		
<i>PAL3103.OperReset - MainProgram/L3103_AerBlower_Pressure - *4(OTL)</i>		
PAL3103.ProgReset	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.OperDisable	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.OperEnable	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCountReset	0	BOOL
Aeration Blower Pressure Alarm Low Set to 1 to reset alarm count		

PAL3103 (Continued)

PAL3103.InAlarm	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.Disabled	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.MinDurationPRE	30000	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.MinDurationACC	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCount	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.InAlarmDate	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.InAlarmTime	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.RetToNormalDate	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.RetToNormalTime	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCountResetDate	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCountResetTime	0	DINT
Aeration Blower Pressure Alarm Low		

PAL3201 ALRM PLC_SH

Aeration Blower 2 Suction Pressure Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>PAL3201 - MainProgram/L3201_AerationBlower2_VFD - *10(ALRM)</i>		
PAL3201.EnableIn	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low Enable Input - System Defined Parameter		
PAL3201.EnableOut	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low Enable Output - System Defined Parameter		
PAL3201.Latched	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.OperReset	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
<i>PAL3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
PAL3201.ProgReset	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.OperDisable	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.OperEnable	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low Set to 1 to reset alarm count		
PAL3201.InAlarm	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
<i>PAL3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
PAL3201.Disabled	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.MinDurationPRE	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.MinDurationACC	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.AlarmCount	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.InAlarmDate	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.InAlarmTime	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.RetToNormalDate	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.RetToNormalTime	0	DINT

PAL3201 (Continued)

Aeration Blower 2 Suction Pressure Alarm Low
PAL3201.AlarmCountResetDate 0 DINT
 Aeration Blower 2 Suction Pressure Alarm Low
PAL3201.AlarmCountResetTime 0 DINT
 Aeration Blower 2 Suction Pressure Alarm Low

PAT3103 ALRM PLC_SH

Aeration Blower Pressure Signal Fail
 Constant No
 External Access: Read/Write
*PAT3103 - MainProgram/L3103_AerBlower_Pressure - *1(ALRM)*
PAT3103.EnableIn 0 BOOL
 Aeration Blower Pressure Signal Fail Enable Input - System Defined Parameter
PAT3103.EnableOut 0 BOOL
 Aeration Blower Pressure Signal Fail Enable Output - System Defined Parameter
PAT3103.Latched 1 BOOL
 Aeration Blower Pressure Signal Fail
PAT3103.OperReset 0 BOOL
 Aeration Blower Pressure Signal Fail
*PAT3103.OperReset - MainProgram/L3103_AerBlower_Pressure - *4(OTL)*
PAT3103.ProgReset 0 BOOL
 Aeration Blower Pressure Signal Fail
PAT3103.OperDisable 0 BOOL
 Aeration Blower Pressure Signal Fail
PAT3103.OperEnable 0 BOOL
 Aeration Blower Pressure Signal Fail
PAT3103.AlarmCountReset 0 BOOL
 Aeration Blower Pressure Signal Fail Set to 1 to reset alarm count
PAT3103.InAlarm 0 BOOL
 Aeration Blower Pressure Signal Fail
PAT3103.InAlarm - MainProgram/L3103_AerBlower_Pressure - 2(XIO), 3(XIO)
PAT3103.Disabled 0 BOOL
 Aeration Blower Pressure Signal Fail
PAT3103.MinDurationPRE 30000 DINT
 Aeration Blower Pressure Signal Fail
PAT3103.MinDurationACC 0 DINT
 Aeration Blower Pressure Signal Fail
PAT3103.AlarmCount 0 DINT
 Aeration Blower Pressure Signal Fail
PAT3103.InAlarmDate 0 DINT
 Aeration Blower Pressure Signal Fail
PAT3103.InAlarmTime 0 DINT
 Aeration Blower Pressure Signal Fail
PAT3103.RetToNormalDate 0 DINT
 Aeration Blower Pressure Signal Fail
PAT3103.RetToNormalTime 0 DINT
 Aeration Blower Pressure Signal Fail
PAT3103.AlarmCountResetDate 0 DINT
 Aeration Blower Pressure Signal Fail
PAT3103.AlarmCountResetTime 0 DINT
 Aeration Blower Pressure Signal Fail

PCH3103 1000.0 REAL PLC_SH

Aeration Blower Pressure Alarm High SP
 Constant No
 External Access: Read/Write
PCH3103 - MainProgram/L3103_AerBlower_Pressure - 2(GRT)

PCL3103 0.0 REAL PLC_SH

Aeration Blower Pressure Alarm Low SP
 Constant No
 External Access: Read/Write
PCL3103 - MainProgram/L3103_AerBlower_Pressure - 3(LES)

PI3103		SCP	PLC_SH
Aeration Blower Pressure			
Constant	No		
External Access:	Read/Write		
<i>PI3103 - MainProgram/L3103_AerBlower_Pressure - *0(SCP)</i>			
PI3103.EnableIn	1	BOOL	
Aeration Blower Pressure Enable Input - System Defined Parameter			
PI3103.EnableOut	1	BOOL	
Aeration Blower Pressure Enable Output - System Defined Parameter			
PI3103.Input	0.0	REAL	
Aeration Blower Pressure			
<i>PI3103.Input - MainProgram/L3103_AerBlower_Pressure - *0(MOV), 1(LIM)</i>			
PI3103.InputMin	4000.0	REAL	
Aeration Blower Pressure			
PI3103.InputMax	20000.0	REAL	
Aeration Blower Pressure			
PI3103.OutputMin	0.0	REAL	
Aeration Blower Pressure			
PI3103.OutputMax	100.0	REAL	
Aeration Blower Pressure			
PI3103.Output	0.0	REAL	
Aeration Blower Pressure			
<i>PI3103.Output - MainProgram/L3103_AerBlower_Pressure - 2(GRT), 3(LES)</i>			
PI3103.ClampMin	1	BOOL	
Aeration Blower Pressure			
PI3103.ClampMax	1	BOOL	
Aeration Blower Pressure			
PLC_KI	1041	DINT	PLC_SH
PLC Time			
Constant	No		
External Access:	Read/Write		
<i>PLC_KI - MainProgram/MainRoutine - *5(CPT)</i>			
PLC_PRESS1		DINT[10]	PLC_SH
DINT Data Read from PLC-PRESS-1			
Constant	No		
External Access:	Read/Write		
PLC_PRESS1[0]	0	DINT	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[0] - MainProgram/Communications - *5(MSG)</i>			
PLC_PRESS1[0].0	0	BOOL	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[0].0 - MainProgram/Communications - 7(XIC)</i>			
PLC_PRESS1[0].1	0	BOOL	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[0].1 - MainProgram/Communications - 8(XIC)</i>			
PLC_PRESS1[0].2	0	BOOL	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[0].2 - MainProgram/Communications - 9(XIC)</i>			
PLC_PRESS1[0].3	0	BOOL	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[0].3 - MainProgram/Communications - 10(XIC)</i>			
PLC_PRESS1[1]	0	DINT	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[1] - MainProgram/Communications - 11(MOV)</i>			
PLC_PRESS1[2]	0	DINT	
DINT Data Read from PLC-PRESS-1			
PLC_PRESS1[3]	0	DINT	
DINT Data Read from PLC-PRESS-1			
PLC_PRESS1[4]	602	DINT	
DINT Data Read from PLC-PRESS-1			
PLC_PRESS1[5]	6132	DINT	
DINT Data Read from PLC-PRESS-1			

PLC_PRESS1 (Continued)		
PLC_PRESS1[6]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[7]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[8]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[9]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS2		DINT[10] PLC_SH
DINT Data Read from PLC-PRESS-2		
Constant	No	
External Access:	Read/Write	
PLC_PRESS2[0]	0	DINT
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0] - MainProgram/Communications - *20(MSG)</i>		
PLC_PRESS2[0].0	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].0 - MainProgram/Communications - 22(XIC)</i>		
PLC_PRESS2[0].1	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].1 - MainProgram/Communications - 23(XIC)</i>		
PLC_PRESS2[0].2	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].2 - MainProgram/Communications - 24(XIC)</i>		
PLC_PRESS2[0].3	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].3 - MainProgram/Communications - 25(XIC)</i>		
PLC_PRESS2[1]	0	DINT
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[1] - MainProgram/Communications - 26(MOV)</i>		
PLC_PRESS2[2]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[3]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[4]	602	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[5]	6132	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[6]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[7]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[8]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[9]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_SH_PRESS1		DINT[10] PLC_SH
DINT Data to be Read PRESS1		
Constant	No	
External Access:	Read/Write	
PLC_SH_PRESS1[0]	20	DINT
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0] - MainProgram/Communications - 6(MSG)</i>		
PLC_SH_PRESS1[0].0	0	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].0 - MainProgram/Communications - *0(OTE)</i>		
PLC_SH_PRESS1[0].1	0	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].1 - MainProgram/Communications - *1(OTE)</i>		
PLC_SH_PRESS1[0].2	1	BOOL
DINT Data to be Read PRESS1		

PLC_SH_PRESS1 (Continued)

<i>PLC_SH_PRESS1[0].2 - MainProgram/Communications - *2(OTE)</i>		
PLC_SH_PRESS1[0].3	0	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].3 - MainProgram/Communications - *3(OTE)</i>		
PLC_SH_PRESS1[0].4	1	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].4 - MainProgram/Communications - *4(OTE)</i>		
PLC_SH_PRESS1[1]	87	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[2]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[3]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[4]	1175	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[5]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[6]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[7]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[8]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[9]	0	DINT
DINT Data to be Read PRESS1		

PLC_SH_PRESS2 DINT[10] PLC_SH

DINT Data to be Read PRESS2		
Constant	No	
External Access:	Read/Write	
PLC_SH_PRESS2[0]	21	DINT
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0] - MainProgram/Communications - 21(MSG)</i>		
PLC_SH_PRESS2[0].0	1	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].0 - MainProgram/Communications - *15(OTE)</i>		
PLC_SH_PRESS2[0].1	0	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].1 - MainProgram/Communications - *16(OTE)</i>		
PLC_SH_PRESS2[0].2	1	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].2 - MainProgram/Communications - *17(OTE)</i>		
PLC_SH_PRESS2[0].3	0	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].3 - MainProgram/Communications - *18(OTE)</i>		
PLC_SH_PRESS2[0].4	1	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].4 - MainProgram/Communications - *19(OTE)</i>		
PLC_SH_PRESS2[1]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[2]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[3]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[4]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[5]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[6]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[7]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[8]	0	DINT

PLC_SH_PRESS2 (Continued)			
DINT Data to be Read PRESS2			
PLC_SH_PRESS2[9]	0	DINT	
DINT Data to be Read PRESS2			
PLC_SH_SSPS		INT[50]	PLC_SH
Constant	No		
External Access:	Read/Write		
PLC_SH_SSPS[0].0	0	BOOL	
<i>PLC_SH_SSPS[0].0 - MainProgram/Communications - *30(OTE)</i>			
PLC_SH_SSPS[10]	15077	INT	
<i>PLC_SH_SSPS[10] - MainProgram/Communications - *31(MOV)</i>			
PLC_SH_SSPS[11]	0	INT	
<i>PLC_SH_SSPS[11] - MainProgram/Communications - *32(MOV)</i>			
PLC_SSPS		INT[50]	PLC_SH
Constant	No		
External Access:	Read/Write		
PLC_SSPS[0]	0	INT	
<i>PLC_SSPS[0] - MainProgram/Communications - *33(MSG)</i>			
PLC_SSPS[0].0	0	BOOL	
<i>PLC_SSPS[0].0 - MainProgram/Communications - 34(XIC)</i>			
PLC_SSPS[0].1	0	BOOL	
<i>PLC_SSPS[0].1 - MainProgram/Communications - 35(XIC)</i>			
PLC_SSPS[0].2	0	BOOL	
<i>PLC_SSPS[0].2 - MainProgram/Communications - 36(XIC)</i>			
PLC_SSPS[0].3	0	BOOL	
<i>PLC_SSPS[0].3 - MainProgram/Communications - 37(XIC)</i>			
PLC_SSPS[0].4	0	BOOL	
<i>PLC_SSPS[0].4 - MainProgram/Communications - 38(XIC)</i>			
PLC_SSPS[10]	27345	INT	
<i>PLC_SSPS[10] - MainProgram/Communications - 39(EQU), 40(MOV), 40(NEQ)</i>			
PLC_SSPSCommSample	27345	INT	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PLC_SSPSCommSample - MainProgram/Communications - *40(MOV), 39(EQU), 40(NEQ)</i>			
PRESS1_COMMTIMER1		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_COMMTIMER1 - MainProgram/Communications - *12(TON)</i>			
PRESS1_COMMTIMER1.DN	0	BOOL	
<i>PRESS1_COMMTIMER1.DN - MainProgram/Communications - 12(XIC)</i>			
PRESS1_COMMTIMER2		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_COMMTIMER2 - MainProgram/Communications - *12(TON)</i>			
PRESS1_COMMTIMER2.DN	1	BOOL	
<i>PRESS1_COMMTIMER2.DN - MainProgram/Communications - 12(XIC)</i>			
PRESS1_ConveyorRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_ConveyorRunCMD - MainProgram/Communications - *9(OTE)</i>			
<i>PRESS1_ConveyorRunCMD - MainProgram/L2106_ScrewPressConveyor1 - 11(XIC)</i>			
PRESS1_HeartBeat	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_HeartBeat - MainProgram/Communications - *7(OTE), 12(XIC), 12(XIO)</i>			
PRESS1_READY	0	BOOL	PLC_SH

PRESS1_READY (Continued)			
Constant	No		
External Access:	Read/Write		
<i>PRESS1_READY - MainProgram/Communications - *10(OTE)</i>			
<i>PRESS1_READY - MainProgram/L1100_PressControl - 3(XIO)</i>			
PRESS1_SludgePumpRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_SludgePumpRunCMD - MainProgram/Communications - *8(OTE), 30(XIC), 32(XIC), 32(XIO)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>			
PRESS1_SludgePumpSpeedCMD	0	DINT	PLC_SH
Press 1 Sludge Pump Speed Command (HZ 1 implied decimal)			
Constant	No		
External Access:	Read/Write		
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/Communications - *11(MOV), 32(MOV)</i>			
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>			
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>			
PRESS2_COMMTIMER1		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_COMMTIMER1 - MainProgram/Communications - *27(TON)</i>			
PRESS2_COMMTIMER1.DN	0	BOOL	
<i>PRESS2_COMMTIMER1.DN - MainProgram/Communications - 27(XIC)</i>			
PRESS2_COMMTIMER2		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_COMMTIMER2 - MainProgram/Communications - *27(TON)</i>			
PRESS2_COMMTIMER2.DN	1	BOOL	
<i>PRESS2_COMMTIMER2.DN - MainProgram/Communications - 27(XIC)</i>			
PRESS2_ConveyorRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_ConveyorRunCMD - MainProgram/Communications - *24(OTE)</i>			
<i>PRESS2_ConveyorRunCMD - MainProgram/L2206_ScrewPressConveyor2 - 11(XIC)</i>			
PRESS2_HeartBeat	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_HeartBeat - MainProgram/Communications - *22(OTE), 27(XIC), 27(XIO)</i>			
PRESS2_READY	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_READY - MainProgram/Communications - *25(OTE)</i>			
<i>PRESS2_READY - MainProgram/L1100_PressControl - 4(XIO)</i>			
PRESS2_SludgePumpRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_SludgePumpRunCMD - MainProgram/Communications - *23(OTE), 30(XIC), 32(XIC), 32(XIO)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>			
PRESS2_SludgePumpSpeedCMD	0	DINT	PLC_SH
Press 2 Sludge Pump Speed Command (HZ 1 implied decimal)			
Constant	No		

PRESS2_SludgePumpSpeedCMD (Continued)

External Access: Read/Write
 PRESS2_SludgePumpSpeedCMD - MainProgram/Communications - *26(MOV), 32(MOV)
 PRESS2_SludgePumpSpeedCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)
 PRESS2_SludgePumpSpeedCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)

PSH000	0	BOOL	PLC_SH
Panel High Temperature Switch			
Constant	No		
External Access: Read/Write			
<i>PSH000 - MainProgram/L0000_Power - *0(OTE), 6(XIC)</i>			
PSH1104	0	BOOL	PLC_SH
Sludge Feed Pump 1			
Constant Switch High	No		
External Access: Read/Write			
<i>PSH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 13(XIC)</i>			
PSH1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Pressure Switch High			
Constant	No		
External Access: Read/Write			
<i>PSH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 13(XIC)</i>			
PSH3101	0	BOOL	PLC_SH
Aeration Blower 1			
Constant Switch High	No		
External Access: Read/Write			
<i>PSH3101 - MainProgram/L3101_AerationBlower1_VFD - 11(XIC)</i>			
PSH3201	0	BOOL	PLC_SH
Aeration Blower 2			
Constant Switch High	No		
External Access: Read/Write			
<i>PSH3201 - MainProgram/L3201_AerationBlower2_VFD - 11(XIC)</i>			
PSL1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Pressure Switch Low			
Constant	No		
External Access: Read/Write			
<i>PSL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 12(XIC)</i>			
PSL1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Pressure Switch Low			
Constant	No		
External Access: Read/Write			
<i>PSL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 12(XIC)</i>			
PSL3101	0	BOOL	PLC_SH
Aeration Blower 1 Pressure Switch Low			
Constant	No		
External Access: Read/Write			
<i>PSL3101 - MainProgram/L3101_AerationBlower1_VFD - 10(XIC)</i>			
PSL3201	0	BOOL	PLC_SH
Aeration Blower 2 Pressure Switch Low			
Constant	No		
External Access: Read/Write			
<i>PSL3201 - MainProgram/L3201_AerationBlower2_VFD - 10(XIC)</i>			
SAN1104		ALRM	PLC_SH
Sludge Feed Pump 1 Speed Fail			
Constant	No		
External Access: Read/Write			

SAN1104 (Continued)

*SAN1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *14(ALRM)*

SAN1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Speed Fail Enable Input - System Defined Parameter		
SAN1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Speed Fail Enable Output - System Defined Parameter		
SAN1104.Latched	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.OperReset	0	BOOL
Sludge Feed Pump 1 Speed Fail		
<i>SAN1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
SAN1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Speed Fail Set to 1 to reset alarm count		
SAN1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.Disabled	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.MinDurationPRE	60000	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Speed Fail		

SAN1204 ALRM PLC_SH

Sludge Feed Pump 2 Speed Fail

Constant No

External Access: Read/Write

*SAN1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *14(ALRM)*

SAN1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Speed Fail Enable Input - System Defined Parameter		
SAN1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Speed Fail Enable Output - System Defined Parameter		
SAN1204.Latched	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.OperReset	0	BOOL
Sludge Feed Pump 2 Speed Fail		
<i>SAN1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
SAN1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Speed Fail Set to 1 to reset alarm count		

SAN1204 (Continued)		
SAN1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.Disabled	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.MinDurationPRE	60000	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.RefToNormalDate	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.RefToNormalTime	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN3101		ALRM
Aeration Blower 1 Speed Fail		
Constant	No	
External Access:	Read/Write	
<i>SAN3101 - MainProgram/L3101_AerationBlower1_VFD - *12(ALRM)</i>		
SAN3101.EnableIn	0	BOOL
Aeration Blower 1 Speed Fail Enable Input - System Defined Parameter		
SAN3101.EnableOut	0	BOOL
Aeration Blower 1 Speed Fail Enable Output - System Defined Parameter		
SAN3101.Latched	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.OperReset	0	BOOL
Aeration Blower 1 Speed Fail		
<i>SAN3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
SAN3101.ProgReset	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.OperDisable	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.OperEnable	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Speed Fail Set to 1 to reset alarm count		
SAN3101.InAlarm	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.Disabled	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.MinDurationPRE	60000	DINT
Aeration Blower 1 Speed Fail		
SAN3101.MinDurationACC	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.AlarmCount	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.InAlarmDate	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.InAlarmTime	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.RefToNormalDate	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.RefToNormalTime	0	DINT
Aeration Blower 1 Speed Fail		

PLC_SH

SAN3101 (Continued)			
SAN3101.AlarmCountResetDate	0		DINT
Aeration Blower 1 Speed Fail			
SAN3101.AlarmCountResetTime	0		DINT
Aeration Blower 1 Speed Fail			
SAN3201			ALRM PLC_SH
Aeration Blower 2 Speed Fail			
Constant	No		
External Access:	Read/Write		
<i>SAN3201 - MainProgram/L3201_AerationBlower2_VFD - *12(ALRM)</i>			
SAN3201.EnableIn	0		BOOL
Aeration Blower 2 Speed Fail Enable Input - System Defined Parameter			
SAN3201.EnableOut	0		BOOL
Aeration Blower 2 Speed Fail Enable Output - System Defined Parameter			
SAN3201.Latched	0		BOOL
Aeration Blower 2 Speed Fail			
SAN3201.OperReset	0		BOOL
Aeration Blower 2 Speed Fail			
<i>SAN3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
SAN3201.ProgReset	0		BOOL
Aeration Blower 2 Speed Fail			
SAN3201.OperDisable	0		BOOL
Aeration Blower 2 Speed Fail			
SAN3201.OperEnable	0		BOOL
Aeration Blower 2 Speed Fail			
SAN3201.AlarmCountReset	0		BOOL
Aeration Blower 2 Speed Fail Set to 1 to reset alarm count			
SAN3201.InAlarm	0		BOOL
Aeration Blower 2 Speed Fail			
SAN3201.Disabled	0		BOOL
Aeration Blower 2 Speed Fail			
SAN3201.MinDurationPRE	60000		DINT
Aeration Blower 2 Speed Fail			
SAN3201.MinDurationACC	0		DINT
Aeration Blower 2 Speed Fail			
SAN3201.AlarmCount	0		DINT
Aeration Blower 2 Speed Fail			
SAN3201.InAlarmDate	0		DINT
Aeration Blower 2 Speed Fail			
SAN3201.InAlarmTime	0		DINT
Aeration Blower 2 Speed Fail			
SAN3201.RefToNormalDate	0		DINT
Aeration Blower 2 Speed Fail			
SAN3201.RefToNormalTime	0		DINT
Aeration Blower 2 Speed Fail			
SAN3201.AlarmCountResetDate	0		DINT
Aeration Blower 2 Speed Fail			
SAN3201.AlarmCountResetTime	0		DINT
Aeration Blower 2 Speed Fail			
SC1104			SCP PLC_SH
Sludge Feed Pump 1 Speed Control			
Constant	No		
External Access:	Read/Write		
<i>SC1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *7(SCP)</i>			
SC1104.EnableIn	1		BOOL
Sludge Feed Pump 1 Speed Control Enable Input - System Defined Parameter			
SC1104.EnableOut	1		BOOL
Sludge Feed Pump 1 Speed Control Enable Output - System Defined Parameter			
SC1104.Input	0.0		REAL
Sludge Feed Pump 1 Speed Control			
<i>SC1104.Input - MainProgram/L1104_SludgeFeedPump1_VFD - *23(MOV), 14(CMP)</i>			
SC1104.InputMin	0.0		REAL

SC1104 (Continued)			
Sludge Feed Pump 1 Speed Control			
SC1104.InputMax	60.0	REAL	
Sludge Feed Pump 1 Speed Control			
SC1104.OutputMin	0.0	REAL	
Sludge Feed Pump 1 Speed Control			
SC1104.OutputMax	1800.0	REAL	
Sludge Feed Pump 1 Speed Control			
SC1104.Output	0.0	REAL	
Sludge Feed Pump 1 Speed Control			
<i>SC1104.Output - MainProgram/L1104_SludgeFeedPump1_VFD - 7(MOV)</i>			
SC1104.ClampMin	1	BOOL	
Sludge Feed Pump 1 Speed Control			
SC1104.ClampMax	1	BOOL	
Sludge Feed Pump 1 Speed Control			
SC1104A	0.0	REAL	PLC_SH
Sludge Feed Pump 1 Manual Speed SP			
Constant	No		
External Access:	Read/Write		
<i>SC1104A - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>			
SC1204		SCP	PLC_SH
Sludge Feed Pump 2 Speed Control			
Constant	No		
External Access:	Read/Write		
<i>SC1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *7(SCP)</i>			
SC1204.EnableIn	1	BOOL	
Sludge Feed Pump 2 Speed Control Enable Input - System Defined Parameter			
SC1204.EnableOut	1	BOOL	
Sludge Feed Pump 2 Speed Control Enable Output - System Defined Parameter			
SC1204.Input	0.0	REAL	
Sludge Feed Pump 2 Speed Control			
<i>SC1204.Input - MainProgram/L1204_SludgeFeedPump2_VFD - *23(MOV), 14(CMP)</i>			
SC1204.InputMin	0.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.InputMax	60.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.OutputMin	0.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.OutputMax	1800.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.Output	0.0	REAL	
Sludge Feed Pump 2 Speed Control			
<i>SC1204.Output - MainProgram/L1204_SludgeFeedPump2_VFD - 7(MOV)</i>			
SC1204.ClampMin	1	BOOL	
Sludge Feed Pump 2 Speed Control			
SC1204.ClampMax	1	BOOL	
Sludge Feed Pump 2 Speed Control			
SC1204A	0.0	REAL	PLC_SH
Sludge Feed Pump 2 Manual Speed SP			
Constant	No		
External Access:	Read/Write		
<i>SC1204A - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>			
SC3101		SCP	PLC_SH
Aeration Blower 1 Speed Control			
Constant	No		
External Access:	Read/Write		
<i>SC3101 - MainProgram/L3101_AerationBlower1_VFD - *5(SCP)</i>			
SC3101.EnableIn	1	BOOL	
Aeration Blower 1 Speed Control Enable Input - System Defined Parameter			
SC3101.EnableOut	1	BOOL	

SC3101 (Continued)			
Aeration Blower 1 Speed Control Enable Output - System Defined Parameter			
SC3101.Input	41.99942	REAL	
Aeration Blower 1 Speed Control			
<i>SC3101.Input - MainProgram/L3101_AerationBlower1_VFD - 12(CMP)</i>			
SC3101.InputMin	0.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.InputMax	60.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.OutputMin	4000.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.OutputMax	20000.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.Output	15199.846	REAL	
Aeration Blower 1 Speed Control			
SC3101.ClampMin	1	BOOL	
Aeration Blower 1 Speed Control			
SC3101.ClampMax	1	BOOL	
Aeration Blower 1 Speed Control			
SC3201		SCP	PLC_SH
Aeration Blower 2 Speed Control			
Constant	No		
External Access:	Read/Write		
<i>SC3201 - MainProgram/L3201_AerationBlower2_VFD - *5(SCP)</i>			
SC3201.EnableIn	1	BOOL	
Aeration Blower 2 Speed Control Enable Input - System Defined Parameter			
SC3201.EnableOut	1	BOOL	
Aeration Blower 2 Speed Control Enable Output - System Defined Parameter			
SC3201.Input	41.99942	REAL	
Aeration Blower 2 Speed Control			
<i>SC3201.Input - MainProgram/L3201_AerationBlower2_VFD - 12(CMP)</i>			
SC3201.InputMin	0.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.InputMax	60.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.OutputMin	4000.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.OutputMax	20000.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.Output	15199.846	REAL	
Aeration Blower 2 Speed Control			
SC3201.ClampMin	1	BOOL	
Aeration Blower 2 Speed Control			
SC3201.ClampMax	1	BOOL	
Aeration Blower 2 Speed Control			
SCN1104	50.0	REAL	PLC_SH
Sludge Feed Pump 1 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 14(CMP)</i>			
SCN1204	50.0	REAL	PLC_SH
Sludge Feed Pump 2 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 14(CMP)</i>			
SCN3101	50.0	REAL	PLC_SH
Aeration Blower 1 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN3101 - MainProgram/L3101_AerationBlower1_VFD - 12(CMP)</i>			

SCN3201	50.0	REAL	PLC_SH
Aeration Blower 2 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN3201 - MainProgram/L3201_AerationBlower2_VFD - 12(CMP)</i>			
SI1104		SCP	PLC_SH
Sludge Feed Pump 1 Speed			
Constant	No		
External Access:	Read/Write		
<i>SI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *6(SCP)</i>			
SI1104.EnableIn	1	BOOL	
Sludge Feed Pump 1 Speed Enable Input - System Defined Parameter			
SI1104.EnableOut	1	BOOL	
Sludge Feed Pump 1 Speed Enable Output - System Defined Parameter			
SI1104.Input	0.0	REAL	
Sludge Feed Pump 1 Speed			
<i>SI1104.Input - MainProgram/L1104_SludgeFeedPump1_VFD - *6(MOV)</i>			
SI1104.InputMin	0.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.InputMax	60.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.OutputMin	0.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.OutputMax	60.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.Output	0.0	REAL	
Sludge Feed Pump 1 Speed			
<i>SI1104.Output - MainProgram/L1104_SludgeFeedPump1_VFD - 14(CMP)</i>			
SI1104.ClampMin	1	BOOL	
Sludge Feed Pump 1 Speed			
SI1104.ClampMax	1	BOOL	
Sludge Feed Pump 1 Speed			
SI1204		SCP	PLC_SH
Sludge Feed Pump 2 Speed			
Constant	No		
External Access:	Read/Write		
<i>SI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *6(SCP)</i>			
SI1204.EnableIn	1	BOOL	
Sludge Feed Pump 2 Speed Enable Input - System Defined Parameter			
SI1204.EnableOut	1	BOOL	
Sludge Feed Pump 2 Speed Enable Output - System Defined Parameter			
SI1204.Input	0.0	REAL	
Sludge Feed Pump 2 Speed			
<i>SI1204.Input - MainProgram/L1204_SludgeFeedPump2_VFD - *6(MOV)</i>			
SI1204.InputMin	0.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.InputMax	60.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.OutputMin	0.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.OutputMax	60.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.Output	0.0	REAL	
Sludge Feed Pump 2 Speed			
<i>SI1204.Output - MainProgram/L1204_SludgeFeedPump2_VFD - 14(CMP)</i>			
SI1204.ClampMin	1	BOOL	
Sludge Feed Pump 2 Speed			
SI1204.ClampMax	1	BOOL	
Sludge Feed Pump 2 Speed			
SI3101		SCP	PLC_SH
Aeration Blower 1 Speed			

SI3101 (Continued)				
Constant	No			
External Access:	Read/Write			
<i>SI3101 - MainProgram/L3101_AerationBlower1_VFD - *4(SCP)</i>				
SI3101.EnableIn	1		BOOL	
Aeration Blower 1 Speed Enable Input - System Defined Parameter				
SI3101.EnableOut	1		BOOL	
Aeration Blower 1 Speed Enable Output - System Defined Parameter				
SI3101.Input	0.0		REAL	
Aeration Blower 1 Speed				
SI3101.InputMin	4000.0		REAL	
Aeration Blower 1 Speed				
SI3101.InputMax	20000.0		REAL	
Aeration Blower 1 Speed				
SI3101.OutputMin	0.0		REAL	
Aeration Blower 1 Speed				
SI3101.OutputMax	60.0		REAL	
Aeration Blower 1 Speed				
SI3101.Output	0.0		REAL	
Aeration Blower 1 Speed				
<i>SI3101.Output - MainProgram/L3101_AerationBlower1_VFD - 12(CMP)</i>				
SI3101.ClampMin	1		BOOL	
Aeration Blower 1 Speed				
SI3101.ClampMax	1		BOOL	
Aeration Blower 1 Speed				
SI3201			SCP	PLC_SH
Aeration Blower 2 Speed				
Constant	No			
External Access:	Read/Write			
<i>SI3201 - MainProgram/L3201_AerationBlower2_VFD - *4(SCP)</i>				
SI3201.EnableIn	1		BOOL	
Aeration Blower 2 Speed Enable Input - System Defined Parameter				
SI3201.EnableOut	1		BOOL	
Aeration Blower 2 Speed Enable Output - System Defined Parameter				
SI3201.Input	0.0		REAL	
Aeration Blower 2 Speed				
SI3201.InputMin	4000.0		REAL	
Aeration Blower 2 Speed				
SI3201.InputMax	20000.0		REAL	
Aeration Blower 2 Speed				
SI3201.OutputMin	0.0		REAL	
Aeration Blower 2 Speed				
SI3201.OutputMax	60.0		REAL	
Aeration Blower 2 Speed				
SI3201.Output	0.0		REAL	
Aeration Blower 2 Speed				
<i>SI3201.Output - MainProgram/L3201_AerationBlower2_VFD - 12(CMP)</i>				
SI3201.ClampMin	1		BOOL	
Aeration Blower 2 Speed				
SI3201.ClampMax	1		BOOL	
Aeration Blower 2 Speed				
SS1104			SS	PLC_SH
Sludge Feed Pump 1				
Constant	No			
External Access:	Read/Write			
<i>SS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *22(SS)</i>				
SS1104.EnableIn	0		BOOL	
Sludge Feed Pump 1 Enable Input - System Defined Parameter				
SS1104.EnableOut	0		BOOL	
Sludge Feed Pump 1 Enable Output - System Defined Parameter				
SS1104.HMIAuto	0		BOOL	
Sludge Feed Pump 1 HMI Auto				

SS1104 (Continued)

SS1104.HMIAuto - MainProgram/L1104_SludgeFeedPump1_VFD - 25(XIC)

SS1104.AutoStart 0 BOOL

Sludge Feed Pump 1 Auto Start Command

*SS1104.AutoStart - MainProgram/L1104_SludgeFeedPump1_VFD - *21(OTE)*

SS1104.HMIStart 0 BOOL

Sludge Feed Pump 1 HMI Manual Start

SS1104.HMIStop 0 BOOL

Sludge Feed Pump 1 HMI Manual Stop

SS1104.StartCmd 0 BOOL

Sludge Feed Pump 1 Start Command

SS1104.StartCmd - MainProgram/L1104_SludgeFeedPump1_VFD - 14(XIC), 5(XIC), 8(XIC), 9(XIO)

SS1104.RestartActive 0 BOOL

Sludge Feed Pump 1 Restart Delay Active

SS1104.RestartPRE 0 DINT

Sludge Feed Pump 1 Restart Delay Preset (Milliseconds)

SS1104.RestartTime 0 DINT

Sludge Feed Pump 1 Actual Restart Time (Times Down)

SS1204 SS PLC_SH

Sludge Feed Pump 2

Constant No

External Access: Read/Write

*SS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *22(SS)*

SS1204.EnableIn 0 BOOL

Sludge Feed Pump 2 Enable Input - System Defined Parameter

SS1204.EnableOut 0 BOOL

Sludge Feed Pump 2 Enable Output - System Defined Parameter

SS1204.HMIAuto 0 BOOL

Sludge Feed Pump 2 HMI Auto

SS1204.HMIAuto - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)

SS1204.AutoStart 0 BOOL

Sludge Feed Pump 2 Auto Start Command

*SS1204.AutoStart - MainProgram/L1204_SludgeFeedPump2_VFD - *21(OTE)*

SS1204.HMIStart 0 BOOL

Sludge Feed Pump 2 HMI Manual Start

SS1204.HMIStop 0 BOOL

Sludge Feed Pump 2 HMI Manual Stop

SS1204.StartCmd 0 BOOL

Sludge Feed Pump 2 Start Command

SS1204.StartCmd - MainProgram/L1204_SludgeFeedPump2_VFD - 14(XIC), 5(XIC), 8(XIC), 9(XIO)

SS1204.RestartActive 0 BOOL

Sludge Feed Pump 2 Restart Delay Active

SS1204.RestartPRE 0 DINT

Sludge Feed Pump 2 Restart Delay Preset (Milliseconds)

SS1204.RestartTime 0 DINT

Sludge Feed Pump 2 Actual Restart Time (Times Down)

SS3101 SS PLC_SH

Aeration Blower 1

Constant No

External Access: Read/Write

*SS3101 - MainProgram/L3101_AerationBlower1_VFD - *21(SS)*

SS3101.EnableIn 0 BOOL

Aeration Blower 1 Enable Input - System Defined Parameter

SS3101.EnableOut 0 BOOL

Aeration Blower 1 Enable Output - System Defined Parameter

SS3101.HMIAuto 0 BOOL

Aeration Blower 1 HMI Auto

SS3101.AutoStart 0 BOOL

Aeration Blower 1 Auto Start Command

*SS3101.AutoStart - MainProgram/L3101_AerationBlower1_VFD - *20(OTE)*

SS3101.HMIStart 0 BOOL

Aeration Blower 1 HMI Manual Start

SS3101 (Continued)		
SS3101.HMIStop	0	BOOL
Aeration Blower 1 HMI Manual Stop		
SS3101.StartCmd	0	BOOL
Aeration Blower 1 Start Command		
<i>SS3101.StartCmd - MainProgram/L3101_AerationBlower1_VFD - 12(XIC), 3(XIC), 6(XIC), 7(XIO)</i>		
SS3101.RestartActive	0	BOOL
Aeration Blower 1 Restart Delay Active		
SS3101.RestartPRE	0	DINT
Aeration Blower 1 Restart Delay Preset (Milliseconds)		
SS3101.RestartTime	0	DINT
Aeration Blower 1 Actual Restart Time (Times Down)		
SS3201		
		SS
Aeration Blower 2		
Constant	No	
External Access:	Read/Write	
<i>SS3201 - MainProgram/L3201_AerationBlower2_VFD - *21(SS)</i>		
SS3201.EnableIn	0	BOOL
Aeration Blower 2 Enable Input - System Defined Parameter		
SS3201.EnableOut	0	BOOL
Aeration Blower 2 Enable Output - System Defined Parameter		
SS3201.HMIAuto	0	BOOL
Aeration Blower 2 HMI Auto		
SS3201.AutoStart	0	BOOL
Aeration Blower 2 Auto Start Command		
<i>SS3201.AutoStart - MainProgram/L3201_AerationBlower2_VFD - *20(OTE)</i>		
SS3201.HMIStart	0	BOOL
Aeration Blower 2 HMI Manual Start		
SS3201.HMIStop	0	BOOL
Aeration Blower 2 HMI Manual Stop		
SS3201.StartCmd	0	BOOL
Aeration Blower 2 Start Command		
<i>SS3201.StartCmd - MainProgram/L3201_AerationBlower2_VFD - 12(XIC), 3(XIC), 6(XIC), 7(XIO)</i>		
SS3201.RestartActive	0	BOOL
Aeration Blower 2 Restart Delay Active		
SS3201.RestartPRE	0	DINT
Aeration Blower 2 Restart Delay Preset (Milliseconds)		
SS3201.RestartTime	0	DINT
Aeration Blower 2 Actual Restart Time (Times Down)		
TAH_PLC		
		ALRM
PLC Panel High Temperature		
Constant	No	
External Access:	Read/Write	
<i>TAH_PLC - MainProgram/MainRoutine - *3(ALRM)</i>		
TAH_PLC.EnableIn	0	BOOL
PLC Panel High Temperature Enable Input - System Defined Parameter		
TAH_PLC.EnableOut	0	BOOL
PLC Panel High Temperature Enable Output - System Defined Parameter		
TAH_PLC.Latched	0	BOOL
PLC Panel High Temperature		
TAH_PLC.OperReset	0	BOOL
PLC Panel High Temperature		
TAH_PLC.ProgReset	0	BOOL
PLC Panel High Temperature		
TAH_PLC.OperDisable	0	BOOL
PLC Panel High Temperature		
TAH_PLC.OperEnable	0	BOOL
PLC Panel High Temperature		
TAH_PLC.AlarmCountReset	0	BOOL
PLC Panel High Temperature Set to 1 to reset alarm count		
TAH_PLC.InAlarm	0	BOOL
PLC Panel High Temperature		

TAH_PLC (Continued)		
TAH_PLC.Disabled	0	BOOL
PLC Panel High Temperature		
TAH_PLC.MinDurationPRE	0	DINT
PLC Panel High Temperature		
TAH_PLC.MinDurationACC	0	DINT
PLC Panel High Temperature		
TAH_PLC.AlarmCount	0	DINT
PLC Panel High Temperature		
TAH_PLC.InAlarmDate	0	DINT
PLC Panel High Temperature		
TAH_PLC.InAlarmTime	0	DINT
PLC Panel High Temperature		
TAH_PLC.RetToNormalDate	0	DINT
PLC Panel High Temperature		
TAH_PLC.RetToNormalTime	0	DINT
PLC Panel High Temperature		
TAH_PLC.AlarmCountResetDate	0	DINT
PLC Panel High Temperature		
TAH_PLC.AlarmCountResetTime	0	DINT
PLC Panel High Temperature		
TAH1104		ALRM
Sludge Feed Pump 1 Motor Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *17(ALRM)</i>		
TAH1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Motor Temperature High Enable Input - System Defined Parameter		
TAH1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Motor Temperature High Enable Output - System Defined Parameter		
TAH1104.Latched	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.OperReset	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
<i>TAH1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
TAH1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Motor Temperature High Set to 1 to reset alarm count		
TAH1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
<i>TAH1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
TAH1104.Disabled	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.AlarmCountResetDate	0	DINT

PLC_SH

TAH1104 (Continued)

Sludge Feed Pump 1 Motor Temperature High

TAH1104.AlarmCountResetTime 0 DINT

Sludge Feed Pump 1 Motor Temperature High

TAH1204 ALRM PLC_SH

Sludge Feed Pump 2 Motor Temperature High

Constant No

External Access: Read/Write

*TAH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *17(ALRM)*

TAH1204.EnableIn 0 BOOL

Sludge Feed Pump 2 Motor Temperature High Enable Input - System Defined Parameter

TAH1204.EnableOut 0 BOOL

Sludge Feed Pump 2 Motor Temperature High Enable Output - System Defined Parameter

TAH1204.Latched 0 BOOL

Sludge Feed Pump 2 Motor Temperature High

TAH1204.OperReset 0 BOOL

Sludge Feed Pump 2 Motor Temperature High

*TAH1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)*

TAH1204.ProgReset 0 BOOL

Sludge Feed Pump 2 Motor Temperature High

TAH1204.OperDisable 0 BOOL

Sludge Feed Pump 2 Motor Temperature High

TAH1204.OperEnable 0 BOOL

Sludge Feed Pump 2 Motor Temperature High

TAH1204.AlarmCountReset 0 BOOL

Sludge Feed Pump 2 Motor Temperature High Set to 1 to reset alarm count

TAH1204.InAlarm 0 BOOL

Sludge Feed Pump 2 Motor Temperature High

TAH1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)

TAH1204.Disabled 0 BOOL

Sludge Feed Pump 2 Motor Temperature High

TAH1204.MinDurationPRE 0 DINT

Sludge Feed Pump 2 Motor Temperature High

TAH1204.MinDurationACC 0 DINT

Sludge Feed Pump 2 Motor Temperature High

TAH1204.AlarmCount 0 DINT

Sludge Feed Pump 2 Motor Temperature High

TAH1204.InAlarmDate 0 DINT

Sludge Feed Pump 2 Motor Temperature High

TAH1204.InAlarmTime 0 DINT

Sludge Feed Pump 2 Motor Temperature High

TAH1204.RetToNormalDate 0 DINT

Sludge Feed Pump 2 Motor Temperature High

TAH1204.RetToNormalTime 0 DINT

Sludge Feed Pump 2 Motor Temperature High

TAH1204.AlarmCountResetDate 0 DINT

Sludge Feed Pump 2 Motor Temperature High

TAH1204.AlarmCountResetTime 0 DINT

Sludge Feed Pump 2 Motor Temperature High

TAH3101A ALRM PLC_SH

Aeration Blower 1 Motor Temperature High

Constant No

External Access: Read/Write

*TAH3101A - MainProgram/L3101_AerationBlower1_VFD - *15(ALRM)*

TAH3101A.EnableIn 0 BOOL

Aeration Blower 1 Motor Temperature High Enable Input - System Defined Parameter

TAH3101A.EnableOut 0 BOOL

Aeration Blower 1 Motor Temperature High Enable Output - System Defined Parameter

TAH3101A.Latched 0 BOOL

Aeration Blower 1 Motor Temperature High

TAH3101A.OperReset 0 BOOL

Aeration Blower 1 Motor Temperature High

TAH3101A (Continued)

<i>TAH3101A.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
TAH3101A.ProgReset	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.OperDisable	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.OperEnable	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCountReset	0	BOOL
Aeration Blower 1 Motor Temperature High Set to 1 to reset alarm count		
TAH3101A.InAlarm	0	BOOL
Aeration Blower 1 Motor Temperature High		
<i>TAH3101A.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
TAH3101A.Disabled	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.MinDurationPRE	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.MinDurationACC	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCount	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.InAlarmDate	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.InAlarmTime	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.RetToNormalDate	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.RetToNormalTime	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCountResetDate	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCountResetTime	0	DINT
Aeration Blower 1 Motor Temperature High		

TAH3101B ALRM PLC_SH

Aeration Blower 1 Discharge Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH3101B - MainProgram/L3101_AerationBlower1_VFD - *16(ALRM)</i>		
TAH3101B.EnableIn	0	BOOL
Aeration Blower 1 Discharge Temperature High Enable Input - System Defined Parameter		
TAH3101B.EnableOut	0	BOOL
Aeration Blower 1 Discharge Temperature High Enable Output - System Defined Parameter		
TAH3101B.Latched	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.OperReset	0	BOOL
Aeration Blower 1 Discharge Temperature High		
<i>TAH3101B.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
TAH3101B.ProgReset	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.OperDisable	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.OperEnable	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCountReset	0	BOOL
Aeration Blower 1 Discharge Temperature High Set to 1 to reset alarm count		
TAH3101B.InAlarm	0	BOOL
Aeration Blower 1 Discharge Temperature High		
<i>TAH3101B.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
TAH3101B.Disabled	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.MinDurationPRE	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.MinDurationACC	0	DINT

TAH3101B (Continued)

Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCount	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.InAlarmDate	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.InAlarmTime	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.RefToNormalDate	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.RefToNormalTime	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCountResetDate	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCountResetTime	0	DINT
Aeration Blower 1 Discharge Temperature High		

TAH3201A ALRM PLC_SH

Aeration Blower 2 Motor Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH3201A - MainProgram/L3201_AerationBlower2_VFD - *15(ALRM)</i>		
TAH3201A.EnableIn	0	BOOL
Aeration Blower 2 Motor Temperature High	Enable Input - System Defined Parameter	
TAH3201A.EnableOut	0	BOOL
Aeration Blower 2 Motor Temperature High	Enable Output - System Defined Parameter	
TAH3201A.Latched	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.OperReset	0	BOOL
Aeration Blower 2 Motor Temperature High		
<i>TAH3201A.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
TAH3201A.ProgReset	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.OperDisable	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.OperEnable	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCountReset	0	BOOL
Aeration Blower 2 Motor Temperature High	Set to 1 to reset alarm count	
TAH3201A.InAlarm	0	BOOL
Aeration Blower 2 Motor Temperature High		
<i>TAH3201A.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
TAH3201A.Disabled	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.MinDurationPRE	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.MinDurationACC	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCount	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.InAlarmDate	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.InAlarmTime	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.RetToNormalDate	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.RetToNormalTime	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCountResetDate	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCountResetTime	0	DINT
Aeration Blower 2 Motor Temperature High		

TAH3201B ALRM PLC_SH

TAH3201B (Continued)

Aeration Blower 2 Discharge Temperature High				
Constant	0	No		
External Access:		Read/Write		
<i>TAH3201B - MainProgram/L3201_AerationBlower2_VFD - *16(ALRM)</i>				
TAH3201B.EnableIn	0		BOOL	
Aeration Blower 2 Discharge Temperature High Enable Input - System Defined Parameter				
TAH3201B.EnableOut	0		BOOL	
Aeration Blower 2 Discharge Temperature High Enable Output - System Defined Parameter				
TAH3201B.Latched	0		BOOL	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.OperReset	0		BOOL	
Aeration Blower 2 Discharge Temperature High				
<i>TAH3201B.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>				
TAH3201B.ProgReset	0		BOOL	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.OperDisable	0		BOOL	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.OperEnable	0		BOOL	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.AlarmCountReset	0		BOOL	
Aeration Blower 2 Discharge Temperature High Set to 1 to reset alarm count				
TAH3201B.InAlarm	0		BOOL	
Aeration Blower 2 Discharge Temperature High				
<i>TAH3201B.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>				
TAH3201B.Disabled	0		BOOL	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.MinDurationPRE	0		DINT	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.MinDurationACC	0		DINT	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.AlarmCount	0		DINT	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.InAlarmDate	0		DINT	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.InAlarmTime	0		DINT	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.RetToNormalDate	0		DINT	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.RetToNormalTime	0		DINT	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.AlarmCountResetDate	0		DINT	
Aeration Blower 2 Discharge Temperature High				
TAH3201B.AlarmCountResetTime	0		DINT	
Aeration Blower 2 Discharge Temperature High				
TSH1104	0		BOOL	PLC_SH
Sludge Feed Pump 1 High Temperature Switch				
Constant	0	No		
External Access:		Read/Write		
<i>TSH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 17(XIC)</i>				
TSH1204	0		BOOL	PLC_SH
Sludge Feed Pump 2 High Temperature Switch				
Constant	0	No		
External Access:		Read/Write		
<i>TSH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 17(XIC)</i>				
TSH3101	0		BOOL	PLC_SH
Aeration Blower 1 High Temperature Switch				
Constant	0	No		
External Access:		Read/Write		
<i>TSH3101 - MainProgram/L3101_AerationBlower1_VFD - 15(XIC), 16(XIC)</i>				

TSH3201	0	BOOL	PLC_SH
Aeration Blower 2 High Temperature Switch			
Constant	No		
External Access:	Read/Write		
<i>TSH3201 - MainProgram/L3201_AerationBlower2_VFD - 15(XIC), 16(XIC)</i>			
VFD1104:I1		_0044:DG1_7E5A1DEB:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
VFD1104:I1.ConnectionFaulted	1	BOOL	
<i>VFD1104:I1.ConnectionFaulted - MainProgram/L1104_SludgeFeedPump1_VFD - 0(DG1)</i>			
VFD1104:I1.Data		INT	
<i>VFD1104:I1.Data - MainProgram/L1104_SludgeFeedPump1_VFD - *0(DG1)</i>			
VFD1104:O1		_0044:DG1_7377BDB4:O:0	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>VFD1104:O1 - MainProgram/L1104_SludgeFeedPump1_VFD - *0(DG1)</i>			
VFD1204:I1		_0044:DG1_7E5A1DEB:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
VFD1204:I1.ConnectionFaulted	1	BOOL	
<i>VFD1204:I1.ConnectionFaulted - MainProgram/L1204_SludgeFeedPump2_VFD - 0(DG1)</i>			
VFD1204:I1.Data		INT	
<i>VFD1204:I1.Data - MainProgram/L1204_SludgeFeedPump2_VFD - *0(DG1)</i>			
VFD1204:O1		_0044:DG1_7377BDB4:O:0	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>VFD1204:O1 - MainProgram/L1204_SludgeFeedPump2_VFD - *0(DG1)</i>			
YA_INT		ALRM	PLC_SH
Intrusion			
Constant	No		
External Access:	Read/Write		
<i>YA_INT - MainProgram/L0000_Intrusion - *1(ALRM)</i>			
YA_INT.EnableIn	0	BOOL	
Intrusion Enable Input - System Defined Parameter			
YA_INT.EnableOut	0	BOOL	
Intrusion Enable Output - System Defined Parameter			
YA_INT.Latched	0	BOOL	
Intrusion			
YA_INT.OperReset	0	BOOL	
Intrusion			
YA_INT.ProgReset	0	BOOL	
Intrusion			
YA_INT.OperDisable	0	BOOL	
Intrusion			
YA_INT.OperEnable	0	BOOL	
Intrusion			
YA_INT.AlarmCountReset	0	BOOL	
Intrusion Set to 1 to reset alarm count			
YA_INT.InAlarm	0	BOOL	
Intrusion			
YA_INT.Disabled	0	BOOL	
Intrusion			
YA_INT.MinDurationPRE	5000	DINT	
Intrusion			
YA_INT.MinDurationACC	77	DINT	
Intrusion			
YA_INT.AlarmCount	16	DINT	
Intrusion			
YA_INT.InAlarmDate	11072022	DINT	

YA_INT (Continued)				
Intrusion				
YA_INT.InAlarmTime	90426		DINT	
Intrusion				
YA_INT.RetToNormalDate	11072022		DINT	
Intrusion				
YA_INT.RetToNormalTime	91547		DINT	
Intrusion				
YA_INT.AlarmCountResetDate	0		DINT	
Intrusion				
YA_INT.AlarmCountResetTime	0		DINT	
Intrusion				
YA_PLC			ALRM	PLC_SH
PLC Fault				
Constant	No			
External Access:	Read/Write			
<i>YA_PLC - MainProgram/PLCFault - *0(ALRM)</i>				
YA_PLC.EnableIn	0		BOOL	
PLC Fault Enable Input - System Defined Parameter				
YA_PLC.EnableOut	0		BOOL	
PLC Fault Enable Output - System Defined Parameter				
YA_PLC.Latched	0		BOOL	
PLC Fault				
YA_PLC.OperReset	0		BOOL	
PLC Fault				
<i>YA_PLC.OperReset - MainProgram/MainRoutine - *0(OTU), 0(XIC)</i>				
YA_PLC.ProgReset	0		BOOL	
PLC Fault				
YA_PLC.OperDisable	0		BOOL	
PLC Fault				
<i>YA_PLC.OperDisable - MainProgram/MainRoutine - *0(OTU)</i>				
YA_PLC.OperEnable	0		BOOL	
PLC Fault				
YA_PLC.AlarmCountReset	0		BOOL	
PLC Fault Set to 1 to reset alarm count				
YA_PLC.InAlarm	0		BOOL	
PLC Fault				
<i>YA_PLC.InAlarm - MainProgram/MainRoutine - *0(OTU)</i>				
YA_PLC.Disabled	0		BOOL	
PLC Fault				
YA_PLC.MinDurationPRE	0		DINT	
PLC Fault				
YA_PLC.MinDurationACC	0		DINT	
PLC Fault				
YA_PLC.AlarmCount	0		DINT	
PLC Fault				
YA_PLC.InAlarmDate	0		DINT	
PLC Fault				
YA_PLC.InAlarmTime	0		DINT	
PLC Fault				
YA_PLC.RetToNormalDate	0		DINT	
PLC Fault				
YA_PLC.RetToNormalTime	0		DINT	
PLC Fault				
YA_PLC.AlarmCountResetDate	0		DINT	
PLC Fault				
YA_PLC.AlarmCountResetTime	0		DINT	
PLC Fault				
YA1104			ALRM	PLC_SH
Sludge Feed Pump 1 Fail				
Constant	No			
External Access:	Read/Write			

YA1104 (Continued)

*YA1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *10(ALRM)*

YA1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Fail Enable Input - System Defined Parameter		
YA1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Fail Enable Output - System Defined Parameter		
YA1104.Latched	0	BOOL
Sludge Feed Pump 1 Fail		
YA1104.OperReset	0	BOOL
Sludge Feed Pump 1 Fail		
<i>YA1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
YA1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Fail		
YA1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Fail		
YA1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Fail		
YA1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Fail Set to 1 to reset alarm count		
YA1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Fail		
<i>YA1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
YA1104.Disabled	0	BOOL
Sludge Feed Pump 1 Fail		
YA1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Fail		

YA1204 ALRM PLC_SH

Sludge Feed Pump 2 Fail

Constant No

External Access: Read/Write

*YA1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *10(ALRM)*

YA1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Fail Enable Input - System Defined Parameter		
YA1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Fail Enable Output - System Defined Parameter		
YA1204.Latched	0	BOOL
Sludge Feed Pump 2 Fail		
YA1204.OperReset	0	BOOL
Sludge Feed Pump 2 Fail		
<i>YA1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
YA1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Fail		
YA1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Fail		
YA1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Fail		
YA1204.AlarmCountReset	0	BOOL

YA1204 (Continued)

Sludge Feed Pump 2 Fail Set to 1 to reset alarm count		
YA1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Fail		
<i>YA1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
YA1204.Disabled	0	BOOL
Sludge Feed Pump 2 Fail		
YA1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Fail		

YA2106 ALRM PLC_SH

Screw Press Conveyor 1 Fail		
Constant	No	
External Access:	Read/Write	
<i>YA2106 - MainProgram/L2106_ScrewPressConveyor1 - *7(ALRM)</i>		
YA2106.EnableIn	0	BOOL
Screw Press Conveyor 1 Fail Enable Input - System Defined Parameter		
YA2106.EnableOut	0	BOOL
Screw Press Conveyor 1 Fail Enable Output - System Defined Parameter		
YA2106.Latched	0	BOOL
Screw Press Conveyor 1 Fail		
YA2106.OperReset	0	BOOL
Screw Press Conveyor 1 Fail		
<i>YA2106.OperReset - MainProgram/L2106_ScrewPressConveyor1 - *8(OTL)</i>		
YA2106.ProgReset	0	BOOL
Screw Press Conveyor 1 Fail		
YA2106.OperDisable	0	BOOL
Screw Press Conveyor 1 Fail		
YA2106.OperEnable	0	BOOL
Screw Press Conveyor 1 Fail		
YA2106.AlarmCountReset	0	BOOL
Screw Press Conveyor 1 Fail Set to 1 to reset alarm count		
YA2106.InAlarm	0	BOOL
Screw Press Conveyor 1 Fail		
<i>YA2106.InAlarm - MainProgram/L2106_ScrewPressConveyor1 - 9(XIO)</i>		
YA2106.Disabled	0	BOOL
Screw Press Conveyor 1 Fail		
YA2106.MinDurationPRE	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.MinDurationACC	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.AlarmCount	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.InAlarmDate	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.InAlarmTime	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.RetToNormalDate	0	DINT

YA2106 (Continued)				
Screw Press Conveyor 1 Fail				
YA2106.RetToNormalTime	0		DINT	
Screw Press Conveyor 1 Fail				
YA2106.AlarmCountResetDate	0		DINT	
Screw Press Conveyor 1 Fail				
YA2106.AlarmCountResetTime	0		DINT	
Screw Press Conveyor 1 Fail				
YA2206			ALRM	PLC_SH
Screw Press Conveyor 2 Fail				
Constant	No			
External Access:	Read/Write			
<i>YA2206 - MainProgram/L2206_ScrewPressConveyor2 - *7(ALRM)</i>				
YA2206.EnableIn	0		BOOL	
Screw Press Conveyor 2 Fail Enable Input - System Defined Parameter				
YA2206.EnableOut	0		BOOL	
Screw Press Conveyor 2 Fail Enable Output - System Defined Parameter				
YA2206.Latched	0		BOOL	
Screw Press Conveyor 2 Fail				
YA2206.OperReset	0		BOOL	
Screw Press Conveyor 2 Fail				
<i>YA2206.OperReset - MainProgram/L2206_ScrewPressConveyor2 - *8(OTL)</i>				
YA2206.ProgReset	0		BOOL	
Screw Press Conveyor 2 Fail				
YA2206.OperDisable	0		BOOL	
Screw Press Conveyor 2 Fail				
YA2206.OperEnable	0		BOOL	
Screw Press Conveyor 2 Fail				
YA2206.AlarmCountReset	0		BOOL	
Screw Press Conveyor 2 Fail Set to 1 to reset alarm count				
YA2206.InAlarm	0		BOOL	
Screw Press Conveyor 2 Fail				
<i>YA2206.InAlarm - MainProgram/L2206_ScrewPressConveyor2 - 9(XIO)</i>				
YA2206.Disabled	0		BOOL	
Screw Press Conveyor 2 Fail				
YA2206.MinDurationPRE	0		DINT	
Screw Press Conveyor 2 Fail				
YA2206.MinDurationACC	0		DINT	
Screw Press Conveyor 2 Fail				
YA2206.AlarmCount	0		DINT	
Screw Press Conveyor 2 Fail				
YA2206.InAlarmDate	0		DINT	
Screw Press Conveyor 2 Fail				
YA2206.InAlarmTime	0		DINT	
Screw Press Conveyor 2 Fail				
YA2206.RetToNormalDate	0		DINT	
Screw Press Conveyor 2 Fail				
YA2206.RetToNormalTime	0		DINT	
Screw Press Conveyor 2 Fail				
YA2206.AlarmCountResetDate	0		DINT	
Screw Press Conveyor 2 Fail				
YA2206.AlarmCountResetTime	0		DINT	
Screw Press Conveyor 2 Fail				
YA3101			ALRM	PLC_SH
Aeration Blower 1 Fail				
Constant	No			
External Access:	Read/Write			
<i>YA3101 - MainProgram/L3101_AerationBlower1_VFD - *8(ALRM)</i>				
YA3101.EnableIn	0		BOOL	
Aeration Blower 1 Fail Enable Input - System Defined Parameter				
YA3101.EnableOut	0		BOOL	
Aeration Blower 1 Fail Enable Output - System Defined Parameter				

YA3101 (Continued)

YA3101.Latched	0	BOOL
Aeration Blower 1 Fail		
YA3101.OperReset	0	BOOL
Aeration Blower 1 Fail		
<i>YA3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
YA3101.ProgReset	0	BOOL
Aeration Blower 1 Fail		
YA3101.OperDisable	0	BOOL
Aeration Blower 1 Fail		
YA3101.OperEnable	0	BOOL
Aeration Blower 1 Fail		
YA3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Fail Set to 1 to reset alarm count		
YA3101.InAlarm	0	BOOL
Aeration Blower 1 Fail		
<i>YA3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
YA3101.Disabled	0	BOOL
Aeration Blower 1 Fail		
YA3101.MinDurationPRE	0	DINT
Aeration Blower 1 Fail		
YA3101.MinDurationACC	0	DINT
Aeration Blower 1 Fail		
YA3101.AlarmCount	0	DINT
Aeration Blower 1 Fail		
YA3101.InAlarmDate	0	DINT
Aeration Blower 1 Fail		
YA3101.InAlarmTime	0	DINT
Aeration Blower 1 Fail		
YA3101.RetToNormalDate	0	DINT
Aeration Blower 1 Fail		
YA3101.RetToNormalTime	0	DINT
Aeration Blower 1 Fail		
YA3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Fail		
YA3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Fail		

YA3201 ALRM PLC_SH

Aeration Blower 2 Fail		
Constant	No	
External Access:	Read/Write	
<i>YA3201 - MainProgram/L3201_AerationBlower2_VFD - *8(ALRM)</i>		
YA3201.EnableIn	0	BOOL
Aeration Blower 2 Fail Enable Input - System Defined Parameter		
YA3201.EnableOut	0	BOOL
Aeration Blower 2 Fail Enable Output - System Defined Parameter		
YA3201.Latched	0	BOOL
Aeration Blower 2 Fail		
YA3201.OperReset	0	BOOL
Aeration Blower 2 Fail		
<i>YA3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
YA3201.ProgReset	0	BOOL
Aeration Blower 2 Fail		
YA3201.OperDisable	0	BOOL
Aeration Blower 2 Fail		
YA3201.OperEnable	0	BOOL
Aeration Blower 2 Fail		
YA3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Fail Set to 1 to reset alarm count		
YA3201.InAlarm	0	BOOL
Aeration Blower 2 Fail		
<i>YA3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
YA3201.Disabled	0	BOOL

YA3201 (Continued)			
Aeration Blower 2 Fail			
YA3201.MinDurationPRE	0	DINT	
Aeration Blower 2 Fail			
YA3201.MinDurationACC	0	DINT	
Aeration Blower 2 Fail			
YA3201.AlarmCount	0	DINT	
Aeration Blower 2 Fail			
YA3201.InAlarmDate	0	DINT	
Aeration Blower 2 Fail			
YA3201.InAlarmTime	0	DINT	
Aeration Blower 2 Fail			
YA3201.RefToNormalDate	0	DINT	
Aeration Blower 2 Fail			
YA3201.RefToNormalTime	0	DINT	
Aeration Blower 2 Fail			
YA3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Fail			
YA3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Fail			
YC1100	0	DINT	PLC_SH
Solids Mode Select (0=SHT1) (1=SHT2) (2=WAS)			
Constant	No		
External Access:	Read/Write		
<i>YC1100 - MainProgram/Communications - 18(EQU), 18(LEQ), 19(EQU), 19(LEQ), 3(EQU), 3(LEQ), 30(EQU), 4(EQU), 4(LEQ)</i>			
<i>YC1100 - MainProgram/L1100_PressControl - 0(NEQ), 1(NEQ), 2(NEQ), 7(EQU)</i>			
YC1100A	0	BOOL	PLC_SH
Sludge Pump Auto Start Cmd			
Constant	No		
External Access:	Read/Write		
<i>YC1100A - MainProgram/L1100_PressControl - *7(OTE)</i>			
<i>YC1100A - MainProgram/L1104_SludgeFeedPump1_VFD - 30(XIC), 31(XIO)</i>			
YI406	0	BOOL	PLC_SH
Secondary Sludge Pump 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI406 - MainProgram/Communications - *36(OTE), 18(XIC), 3(XIC)</i>			
YI409	0	BOOL	PLC_SH
Secondary Sludge Pump 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI409 - MainProgram/Communications - *37(OTE), 18(XIC), 3(XIC)</i>			
YI1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI1104 - MainProgram/Communications - 18(XIC), 3(XIC)</i>			
<i>YI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *3(OTE), 24(XIC), 25(XIC), 8(XIO), 9(XIC)</i>			
YI1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI1204 - MainProgram/Communications - 18(XIC), 3(XIC)</i>			
<i>YI1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>			
<i>YI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *3(OTE), 24(XIC), 8(XIO), 9(XIC)</i>			
YI2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 Running			

YI2106 (Continued)			
Constant	No		
External Access:	Read/Write		
<i>YI2106 - MainProgram/Communications - 30(XIC)</i>			
<i>YI2106 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>YI2106 - MainProgram/L2106_ScrewPressConveyor1 - *1(OTE), 14(XIC), 5(XIO), 6(XIC)</i>			
YI2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI2206 - MainProgram/Communications - 30(XIC)</i>			
<i>YI2206 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>YI2206 - MainProgram/L2206_ScrewPressConveyor2 - *1(OTE), 14(XIC), 5(XIO), 6(XIC)</i>			
YI3101	0	BOOL	PLC_SH
Aeration Blower 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI3101 - MainProgram/L3101_AerationBlower1_VFD - *1(OTE), 22(XIC), 6(XIO), 7(XIC)</i>			
<i>YI3101 - MainProgram/L3103_AerBlower_Pressure - 2(XIC), 3(XIC)</i>			
YI3201	0	BOOL	PLC_SH
Aeration Blower 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI3201 - MainProgram/L3103_AerBlower_Pressure - 2(XIC), 3(XIC)</i>			
<i>YI3201 - MainProgram/L3201_AerationBlower2_VFD - *1(OTE), 22(XIC), 6(XIO), 7(XIC)</i>			
YL406	0	BOOL	PLC_SH
Secondary Sludge Pump 1 Auto Ready			
Constant	No		
External Access:	Read/Write		
<i>YL406 - MainProgram/Communications - *34(OTE), 19(XIO), 4(XIO)</i>			
<i>YL406 - MainProgram/L1100_PressControl - 2(XIO)</i>			
YL409	0	BOOL	PLC_SH
Secondary Sludge Pump 2 Auto Ready			
Constant	No		
External Access:	Read/Write		
<i>YL409 - MainProgram/Communications - *35(OTE), 19(XIO), 4(XIO)</i>			
<i>YL409 - MainProgram/L1100_PressControl - 2(XIO)</i>			
YL1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>YL1101 - MainProgram/L1101_SHT1_ControlValve - *10(OTE), 14(XIC)</i>			
YL1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *19(OTE), 22(XIC), 25(XIC)</i>			
YL1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>YL1201 - MainProgram/L1201_SHT2_ControlValve - *10(OTE), 14(XIC)</i>			
YL1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Ready			
Constant	No		

YL1204 (Continued)			
External Access:	Read/Write		
<i>YL1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>			
<i>YL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *19(OTE), 22(XIC)</i>			
YL2101	0	BOOL	PLC_SH
Press 1 Sludge Valve Ready			
Constant	No		
External Access:	Read/Write		
<i>YL2101 - MainProgram/L1100_PressControl - 3(XIO)</i>			
<i>YL2101 - MainProgram/L2101_Press1_SludgeValve - *10(OTE), 14(XIC)</i>			
YL2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL2106 - MainProgram/L1100_PressControl - 3(XIO)</i>			
<i>YL2106 - MainProgram/L2106_ScrewPressConveyor1 - *9(OTE), 13(XIC)</i>			
YL2201	0	BOOL	PLC_SH
Press 2 Sludge Valve Ready			
Constant	No		
External Access:	Read/Write		
<i>YL2201 - MainProgram/L1100_PressControl - 4(XIO)</i>			
<i>YL2201 - MainProgram/L2201_Press2_SludgeValve - *10(OTE), 14(XIC)</i>			
YL2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL2206 - MainProgram/L1100_PressControl - 4(XIO)</i>			
<i>YL2206 - MainProgram/L2206_ScrewPressConveyor2 - *9(OTE), 13(XIC)</i>			
YL3101	0	BOOL	PLC_SH
Aeration Blower 1 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL3101 - MainProgram/L3101_AerationBlower1_VFD - *18(OTE), 21(XIC)</i>			
YL3201	0	BOOL	PLC_SH
Aeration Blower 2 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL3201 - MainProgram/L3201_AerationBlower2_VFD - *18(OTE), 21(XIC)</i>			
YS_INT	0	BOOL	PLC_SH
Intrusion Switch			
Constant	No		
External Access:	Read/Write		
<i>YS_INT - MainProgram/L0000_Intrusion - *0(OTE), 1(XIC)</i>			
YS1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *4(OTE), 10(XIC)</i>			
YS1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *4(OTE), 10(XIC)</i>			
YS2106	0	BOOL	PLC_SH

YS2106 (Continued)			
Screw Press Conveyor 1 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS2106 - MainProgram/L2106_ScrewPressConveyor1 - *2(OTE), 7(XIC)</i>			
YS2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS2206 - MainProgram/L2206_ScrewPressConveyor2 - *2(OTE), 7(XIC)</i>			
YS3101	0	BOOL	PLC_SH
Aeration Blower 1 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS3101 - MainProgram/L3101_AerationBlower1_VFD - *2(OTE), 8(XIC)</i>			
YS3201	0	BOOL	PLC_SH
Aeration Blower 2 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS3201 - MainProgram/L3201_AerationBlower2_VFD - *2(OTE), 8(XIC)</i>			
YY1100A	6	DINT	PLC_SH
Solids From SHT 1 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY1100A - MainProgram/L1100_PressControl - *0(CLR), 7(EQU)</i>			
YY1100A.0	0	BOOL	
Solids From SHT 1 Intermux			
<i>YY1100A.0 - MainProgram/L1100_PressControl - *0(OTE)</i>			
YY1100A.1	1	BOOL	
Solids From SHT 1 Intermux			
<i>YY1100A.1 - MainProgram/L1100_PressControl - *0(OTE)</i>			
YY1100A.2	1	BOOL	
Solids From SHT 1 Intermux			
<i>YY1100A.2 - MainProgram/L1100_PressControl - *0(OTE)</i>			
YY1100A.3	0	BOOL	
Solids From SHT 1 Intermux			
<i>YY1100A.3 - MainProgram/L1100_PressControl - *0(OTE)</i>			
YY1100A.4	0	BOOL	
Solids From SHT 1 Intermux			
<i>YY1100A.4 - MainProgram/L1100_PressControl - *0(OTE)</i>			
YY1100B	7	DINT	PLC_SH
Solids From SHT 2 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY1100B - MainProgram/L1100_PressControl - *1(CLR), 7(EQU)</i>			
YY1100B.0	1	BOOL	
Solids From SHT 2 Intermux			
<i>YY1100B.0 - MainProgram/L1100_PressControl - *1(OTE)</i>			
YY1100B.1	1	BOOL	
Solids From SHT 2 Intermux			
<i>YY1100B.1 - MainProgram/L1100_PressControl - *1(OTE)</i>			
YY1100B.2	1	BOOL	
Solids From SHT 2 Intermux			
<i>YY1100B.2 - MainProgram/L1100_PressControl - *1(OTE)</i>			
YY1100C	7	DINT	PLC_SH
Solids From WAS Intermux			
Constant	No		
External Access:	Read/Write		

YY1100C (Continued)			
<i>YY1100C - MainProgram/Communications - 30(EQU)</i>			
<i>YY1100C - MainProgram/L1100_PressControl - *2(CLR)</i>			
YY1100C.0	1	BOOL	
Solids From WAS Intermux			
<i>YY1100C.0 - MainProgram/L1100_PressControl - *2(OTE)</i>			
YY1100C.1	1	BOOL	
Solids From WAS Intermux			
<i>YY1100C.1 - MainProgram/L1100_PressControl - *2(OTE)</i>			
YY1100C.2	1	BOOL	
Solids From WAS Intermux			
<i>YY1100C.2 - MainProgram/L1100_PressControl - *2(OTE)</i>			
YY1100C.3	0	BOOL	
Solids From WAS Intermux			
<i>YY1100C.3 - MainProgram/L1100_PressControl - *2(OTE)</i>			
YY1100D	11	DINT	PLC_SH
Press 1 Intermux			
Constant No			
External Access: Read/Write			
<i>YY1100D - MainProgram/Communications - 1(EQU), 2(NEQ), 30(EQU)</i>			
<i>YY1100D - MainProgram/L1100_PressControl - *3(CLR), 5(NEQ), 7(EQU)</i>			
YY1100D.0	1	BOOL	
Press 1 Intermux			
<i>YY1100D.0 - MainProgram/L1100_PressControl - *3(OTE)</i>			
YY1100D.1	1	BOOL	
Press 1 Intermux			
<i>YY1100D.1 - MainProgram/L1100_PressControl - *3(OTE)</i>			
YY1100D.2	0	BOOL	
Press 1 Intermux			
<i>YY1100D.2 - MainProgram/L1100_PressControl - *3(OTE)</i>			
YY1100D.3	1	BOOL	
Press 1 Intermux			
<i>YY1100D.3 - MainProgram/L1100_PressControl - *3(OTE)</i>			
YY1100E	11	DINT	PLC_SH
Press 2 Intermux			
Constant No			
External Access: Read/Write			
<i>YY1100E - MainProgram/Communications - 16(EQU), 17(NEQ), 30(EQU)</i>			
<i>YY1100E - MainProgram/L1100_PressControl - *4(CLR), 6(NEQ), 7(EQU)</i>			
YY1100E.0	1	BOOL	
Press 2 Intermux			
<i>YY1100E.0 - MainProgram/L1100_PressControl - *4(OTE)</i>			
YY1100E.1	1	BOOL	
Press 2 Intermux			
<i>YY1100E.1 - MainProgram/L1100_PressControl - *4(OTE)</i>			
YY1100E.2	0	BOOL	
Press 2 Intermux			
<i>YY1100E.2 - MainProgram/L1100_PressControl - *4(OTE)</i>			
YY1100E.3	1	BOOL	
Press 2 Intermux			
<i>YY1100E.3 - MainProgram/L1100_PressControl - *4(OTE)</i>			
YY1101	0	DINT	PLC_SH
Solids Holding Tank 1 Control Valve Intermux			
Constant No			
External Access: Read/Write			
<i>YY1101 - MainProgram/L1101_SHT1_ControlValve - *11(CLR), 14(EQU)</i>			
YY1101.0	0	BOOL	
Solids Holding Tank 1 Control Valve Intermux			
<i>YY1101.0 - MainProgram/L1101_SHT1_ControlValve - *11(OTE)</i>			
YY1101.1	0	BOOL	
Solids Holding Tank 1 Control Valve Intermux			

Tag Name	Value	Control Type	Access
YY1101 (Continued)			
<i>YY1101.1 - MainProgram/L1101_SHT1_ControlValve - *11(OTE)</i>			
YY1104	0	DINT	PLC_SH
Sludge Feed Pump 1 Intermux			
Constant No			
External Access: Read/Write			
<i>YY1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *20(CLR), 22(EQU), 32(NEQ)</i>			
YY1104.0	0	BOOL	
Sludge Feed Pump 1 Intermux			
<i>YY1104.0 - MainProgram/L1104_SludgeFeedPump1_VFD - *20(OTE)</i>			
YY1104.1	0	BOOL	
Sludge Feed Pump 1 Intermux			
<i>YY1104.1 - MainProgram/L1104_SludgeFeedPump1_VFD - *20(OTE)</i>			
YY1201	0	DINT	PLC_SH
Solids Holding Tank 2 Control Valve Intermux			
Constant No			
External Access: Read/Write			
<i>YY1201 - MainProgram/L1201_SHT2_ControlValve - *11(CLR), 14(EQU)</i>			
YY1201.0	0	BOOL	
Solids Holding Tank 2 Control Valve Intermux			
<i>YY1201.0 - MainProgram/L1201_SHT2_ControlValve - *11(OTE)</i>			
YY1201.1	0	BOOL	
Solids Holding Tank 2 Control Valve Intermux			
<i>YY1201.1 - MainProgram/L1201_SHT2_ControlValve - *11(OTE)</i>			
YY1204	0	DINT	PLC_SH
Sludge Feed Pump 2 Intermux			
Constant No			
External Access: Read/Write			
<i>YY1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 32(NEQ)</i>			
<i>YY1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(CLR), 22(EQU)</i>			
YY1204.0	0	BOOL	
Sludge Feed Pump 2 Intermux			
<i>YY1204.0 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(OTE)</i>			
YY1204.1	0	BOOL	
Sludge Feed Pump 2 Intermux			
<i>YY1204.1 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(OTE)</i>			
YY2101	0	DINT	PLC_SH
Press 1 Sludge Valve Intermux			
Constant No			
External Access: Read/Write			
<i>YY2101 - MainProgram/L2101_Press1_SludgeValve - *11(CLR), 14(EQU)</i>			
YY2101.0	0	BOOL	
Press 1 Sludge Valve Intermux			
<i>YY2101.0 - MainProgram/L2101_Press1_SludgeValve - *11(OTE)</i>			
YY2101.1	0	BOOL	
Press 1 Sludge Valve Intermux			
<i>YY2101.1 - MainProgram/L2101_Press1_SludgeValve - *11(OTE)</i>			
YY2106	0	DINT	PLC_SH
Screw Press Conveyor 1 Intermux			
Constant No			
External Access: Read/Write			
<i>YY2106 - MainProgram/L2106_ScrewPressConveyor1 - *10(CLR), 13(EQU)</i>			
YY2106.0	0	BOOL	
Screw Press Conveyor 1 Intermux			
<i>YY2106.0 - MainProgram/L2106_ScrewPressConveyor1 - *10(OTE)</i>			
YY2106.1	0	BOOL	
Screw Press Conveyor 1 Intermux			
<i>YY2106.1 - MainProgram/L2106_ScrewPressConveyor1 - *10(OTE)</i>			

YY2201	0	DINT	PLC_SH
Press 2 Sludge Valve Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY2201 - MainProgram/L2201_Press2_SludgeValve - *11(CLR), 14(EQU)</i>			
YY2201.0	0	BOOL	
Press 2 Sludge Valve Intermux			
<i>YY2201.0 - MainProgram/L2201_Press2_SludgeValve - *11(OTE)</i>			
YY2201.1	0	BOOL	
Press 2 Sludge Valve Intermux			
<i>YY2201.1 - MainProgram/L2201_Press2_SludgeValve - *11(OTE)</i>			
YY2206	0	DINT	PLC_SH
Screw Press Conveyor 2 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY2206 - MainProgram/L2206_ScrewPressConveyor2 - *10(CLR), 13(EQU)</i>			
YY2206.0	0	BOOL	
Screw Press Conveyor 2 Intermux			
<i>YY2206.0 - MainProgram/L2206_ScrewPressConveyor2 - *10(OTE)</i>			
YY2206.1	0	BOOL	
Screw Press Conveyor 2 Intermux			
<i>YY2206.1 - MainProgram/L2206_ScrewPressConveyor2 - *10(OTE)</i>			
YY3101	0	DINT	PLC_SH
Aeration Blower 1 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY3101 - MainProgram/L3101_AerationBlower1_VFD - *19(CLR), 21(EQU)</i>			
YY3101.0	0	BOOL	
Aeration Blower 1 Intermux			
<i>YY3101.0 - MainProgram/L3101_AerationBlower1_VFD - *19(OTE)</i>			
YY3101.1	0	BOOL	
Aeration Blower 1 Intermux			
<i>YY3101.1 - MainProgram/L3101_AerationBlower1_VFD - *19(OTE)</i>			
YY3201	0	DINT	PLC_SH
Aeration Blower 2 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY3201 - MainProgram/L3201_AerationBlower2_VFD - *19(CLR), 21(EQU)</i>			
YY3201.0	0	BOOL	
Aeration Blower 2 Intermux			
<i>YY3201.0 - MainProgram/L3201_AerationBlower2_VFD - *19(OTE)</i>			
YY3201.1	0	BOOL	
Aeration Blower 2 Intermux			
<i>YY3201.1 - MainProgram/L3201_AerationBlower2_VFD - *19(OTE)</i>			
ZA_PLC		ALRM	PLC_SH
PLC Panel Intrusion			
Constant	No		
External Access:	Read/Write		
<i>ZA_PLC - MainProgram/MainRoutine - *4(ALRM)</i>			
ZA_PLC.EnableIn	1	BOOL	
PLC Panel Intrusion Enable Input - System Defined Parameter			
ZA_PLC.EnableOut	1	BOOL	
PLC Panel Intrusion Enable Output - System Defined Parameter			
ZA_PLC.Latched	0	BOOL	
PLC Panel Intrusion			
ZA_PLC.OperReset	0	BOOL	
PLC Panel Intrusion			
ZA_PLC.ProgReset	0	BOOL	
PLC Panel Intrusion			
ZA_PLC.OperDisable	0	BOOL	

ZA_PLC (Continued)

PLC Panel Intrusion		
ZA_PLC.OperEnable	0	BOOL
PLC Panel Intrusion		
ZA_PLC.AlarmCountReset	0	BOOL
PLC Panel Intrusion Set to 1 to reset alarm count		
ZA_PLC.InAlarm	1	BOOL
PLC Panel Intrusion		
ZA_PLC.Disabled	0	BOOL
PLC Panel Intrusion		
ZA_PLC.MinDurationPRE	0	DINT
PLC Panel Intrusion		
ZA_PLC.MinDurationACC	0	DINT
PLC Panel Intrusion		
ZA_PLC.AlarmCount	29	DINT
PLC Panel Intrusion		
ZA_PLC.InAlarmDate	11072022	DINT
PLC Panel Intrusion		
ZA_PLC.InAlarmTime	92018	DINT
PLC Panel Intrusion		
ZA_PLC.RetToNormalDate	11072022	DINT
PLC Panel Intrusion		
ZA_PLC.RetToNormalTime	92018	DINT
PLC Panel Intrusion		
ZA_PLC.AlarmCountResetDate	0	DINT
PLC Panel Intrusion		
ZA_PLC.AlarmCountResetTime	0	DINT
PLC Panel Intrusion		

ZA1104 ALRM PLC_SH

Sludge Feed Pump 1 E-Stop		
Constant	No	
External Access:	Read/Write	
<i>ZA1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *11(ALRM)</i>		
ZA1104.EnableIn	0	BOOL
Sludge Feed Pump 1 E-Stop Enable Input - System Defined Parameter		
ZA1104.EnableOut	0	BOOL
Sludge Feed Pump 1 E-Stop Enable Output - System Defined Parameter		
ZA1104.Latched	0	BOOL
Sludge Feed Pump 1 E-Stop		
ZA1104.OperReset	0	BOOL
Sludge Feed Pump 1 E-Stop		
<i>ZA1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
ZA1104.ProgReset	0	BOOL
Sludge Feed Pump 1 E-Stop		
ZA1104.OperDisable	0	BOOL
Sludge Feed Pump 1 E-Stop		
ZA1104.OperEnable	0	BOOL
Sludge Feed Pump 1 E-Stop		
ZA1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 E-Stop Set to 1 to reset alarm count		
ZA1104.InAlarm	0	BOOL
Sludge Feed Pump 1 E-Stop		
<i>ZA1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
ZA1104.Disabled	0	BOOL
Sludge Feed Pump 1 E-Stop		
ZA1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 E-Stop		
ZA1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 E-Stop		
ZA1104.AlarmCount	0	DINT
Sludge Feed Pump 1 E-Stop		
ZA1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 E-Stop		

ZA1104 (Continued)			
ZA1104.InAlarmTime	0		DINT
Sludge Feed Pump 1 E-Stop			
ZA1104.RetToNormalDate	0		DINT
Sludge Feed Pump 1 E-Stop			
ZA1104.RetToNormalTime	0		DINT
Sludge Feed Pump 1 E-Stop			
ZA1104.AlarmCountResetDate	0		DINT
Sludge Feed Pump 1 E-Stop			
ZA1104.AlarmCountResetTime	0		DINT
Sludge Feed Pump 1 E-Stop			
ZA1204			ALRM
Sludge Feed Pump 2 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZA1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *11(ALRM)</i>			
ZA1204.EnableIn	0		BOOL
Sludge Feed Pump 2 E-Stop Enable Input - System Defined Parameter			
ZA1204.EnableOut	0		BOOL
Sludge Feed Pump 2 E-Stop Enable Output - System Defined Parameter			
ZA1204.Latched	0		BOOL
Sludge Feed Pump 2 E-Stop			
ZA1204.OperReset	0		BOOL
Sludge Feed Pump 2 E-Stop			
<i>ZA1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>			
ZA1204.ProgReset	0		BOOL
Sludge Feed Pump 2 E-Stop			
ZA1204.OperDisable	0		BOOL
Sludge Feed Pump 2 E-Stop			
ZA1204.OperEnable	0		BOOL
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCountReset	0		BOOL
Sludge Feed Pump 2 E-Stop Set to 1 to reset alarm count			
ZA1204.InAlarm	0		BOOL
Sludge Feed Pump 2 E-Stop			
<i>ZA1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>			
ZA1204.Disabled	0		BOOL
Sludge Feed Pump 2 E-Stop			
ZA1204.MinDurationPRE	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.MinDurationACC	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCount	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.InAlarmDate	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.InAlarmTime	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.RetToNormalDate	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.RetToNormalTime	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCountResetDate	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCountResetTime	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA3101			ALRM
Aeration Blower 1 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZA3101 - MainProgram/L3101_AerationBlower1_VFD - *9(ALRM)</i>			
ZA3101.EnableIn	0		BOOL

PLC_SH

PLC_SH

ZA3101 (Continued)

Aeration Blower 1 E-Stop Enable Input - System Defined Parameter		
ZA3101.EnableOut	0	BOOL
Aeration Blower 1 E-Stop Enable Output - System Defined Parameter		
ZA3101.Latched	0	BOOL
Aeration Blower 1 E-Stop		
ZA3101.OperReset	0	BOOL
Aeration Blower 1 E-Stop		
<i>ZA3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
ZA3101.ProgReset	0	BOOL
Aeration Blower 1 E-Stop		
ZA3101.OperDisable	0	BOOL
Aeration Blower 1 E-Stop		
ZA3101.OperEnable	0	BOOL
Aeration Blower 1 E-Stop		
ZA3101.AlarmCountReset	0	BOOL
Aeration Blower 1 E-Stop Set to 1 to reset alarm count		
ZA3101.InAlarm	0	BOOL
Aeration Blower 1 E-Stop		
<i>ZA3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
ZA3101.Disabled	0	BOOL
Aeration Blower 1 E-Stop		
ZA3101.MinDurationPRE	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.MinDurationACC	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.AlarmCount	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.InAlarmDate	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.InAlarmTime	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.RefToNormalDate	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.RefToNormalTime	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 E-Stop		

ZA3201 ALRM PLC_SH

Aeration Blower 2 E-Stop		
Constant	No	
External Access:	Read/Write	
<i>ZA3201 - MainProgram/L3201_AerationBlower2_VFD - *9(ALRM)</i>		
ZA3201.EnableIn	0	BOOL
Aeration Blower 2 E-Stop Enable Input - System Defined Parameter		
ZA3201.EnableOut	0	BOOL
Aeration Blower 2 E-Stop Enable Output - System Defined Parameter		
ZA3201.Latched	0	BOOL
Aeration Blower 2 E-Stop		
ZA3201.OperReset	0	BOOL
Aeration Blower 2 E-Stop		
<i>ZA3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
ZA3201.ProgReset	0	BOOL
Aeration Blower 2 E-Stop		
ZA3201.OperDisable	0	BOOL
Aeration Blower 2 E-Stop		
ZA3201.OperEnable	0	BOOL
Aeration Blower 2 E-Stop		
ZA3201.AlarmCountReset	0	BOOL
Aeration Blower 2 E-Stop Set to 1 to reset alarm count		
ZA3201.InAlarm	0	BOOL

ZA3201 (Continued)

Aeration Blower 2 E-Stop		
<i>ZA3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
ZA3201.Disabled	0	BOOL
Aeration Blower 2 E-Stop		
ZA3201.MinDurationPRE	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.MinDurationACC	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.AlarmCount	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.InAlarmDate	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.InAlarmTime	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.RetToNormalDate	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.RetToNormalTime	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.AlarmCountResetDate	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.AlarmCountResetTime	0	DINT
Aeration Blower 2 E-Stop		

ZAC1101 ALRM PLC_SH

Solids Holding Tank 1 Control Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAC1101 - MainProgram/L1101_SHT1_ControlValve - *7(ALRM)</i>		
ZAC1101.EnableIn	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Enable Input - System Defined Parameter		
ZAC1101.EnableOut	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Enable Output - System Defined Parameter		
ZAC1101.Latched	1	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.OperReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
<i>ZAC1101.OperReset - MainProgram/L1101_SHT1_ControlValve - *9(OTL)</i>		
ZAC1101.ProgReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.OperDisable	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.OperEnable	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.AlarmCountReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Set to 1 to reset alarm count		
ZAC1101.InAlarm	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
<i>ZAC1101.InAlarm - MainProgram/L1101_SHT1_ControlValve - 10(XIO)</i>		
ZAC1101.Disabled	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.MinDurationPRE	30000	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.MinDurationACC	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.AlarmCount	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.InAlarmDate	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.InAlarmTime	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.RetToNormalDate	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.RetToNormalTime	0	DINT

ZAC1101 (Continued)

Solids Holding Tank 1 Control Valve Fail to Open
ZAC1101.AlarmCountResetDate 0 DINT
 Solids Holding Tank 1 Control Valve Fail to Open
ZAC1101.AlarmCountResetTime 0 DINT
 Solids Holding Tank 1 Control Valve Fail to Open

ZAC1201 ALRM PLC_SH

Solids Holding Tank 2 Control Valve Fail to Open
 Constant No
 External Access: Read/Write
*ZAC1201 - MainProgram/L1201_SHT2_ControlValve - *7(ALRM)*
ZAC1201.EnableIn 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open Enable Input - System Defined Parameter
ZAC1201.EnableOut 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open Enable Output - System Defined Parameter
ZAC1201.Latched 1 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.OperReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
*ZAC1201.OperReset - MainProgram/L1201_SHT2_ControlValve - *9(OTL)*
ZAC1201.ProgReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.OperDisable 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.OperEnable 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCountReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open Set to 1 to reset alarm count
ZAC1201.InAlarm 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.InAlarm - MainProgram/L1201_SHT2_ControlValve - 10(XIO)
ZAC1201.Disabled 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.MinDurationPRE 30000 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.MinDurationACC 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCount 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.InAlarmDate 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.InAlarmTime 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.RetToNormalDate 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.RetToNormalTime 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCountResetDate 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCountResetTime 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open

ZAC2101 ALRM PLC_SH

Press 1 Sludge Valve Fail to Open
 Constant No
 External Access: Read/Write
*ZAC2101 - MainProgram/L2101_Press1_SludgeValve - *7(ALRM)*
ZAC2101.EnableIn 0 BOOL
 Press 1 Sludge Valve Fail to Open Enable Input - System Defined Parameter
ZAC2101.EnableOut 0 BOOL
 Press 1 Sludge Valve Fail to Open Enable Output - System Defined Parameter
ZAC2101.Latched 1 BOOL
 Press 1 Sludge Valve Fail to Open

ZAC2101 (Continued)		
ZAC2101.OperReset	0	BOOL
Press 1 Sludge Valve Fail to Open		
<i>ZAC2101.OperReset - MainProgram/L2101_Press1_SludgeValve - *9(OTL)</i>		
ZAC2101.ProgReset	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAC2101.OperDisable	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAC2101.OperEnable	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCountReset	0	BOOL
Press 1 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAC2101.InAlarm	0	BOOL
Press 1 Sludge Valve Fail to Open		
<i>ZAC2101.InAlarm - MainProgram/L2101_Press1_SludgeValve - 10(XIO)</i>		
ZAC2101.Disabled	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAC2101.MinDurationPRE	30000	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.MinDurationACC	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCount	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.InAlarmDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.InAlarmTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.RetToNormalDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.RetToNormalTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCountResetDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCountResetTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2201		ALRM
Press 2 Sludge Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAC2201 - MainProgram/L2201_Press2_SludgeValve - *7(ALRM)</i>		
ZAC2201.EnableIn	0	BOOL
Press 2 Sludge Valve Fail to Open Enable Input - System Defined Parameter		
ZAC2201.EnableOut	0	BOOL
Press 2 Sludge Valve Fail to Open Enable Output - System Defined Parameter		
ZAC2201.Latched	1	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.OperReset	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAC2201.OperReset - MainProgram/L2201_Press2_SludgeValve - *9(OTL)</i>		
ZAC2201.ProgReset	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.OperDisable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.OperEnable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCountReset	0	BOOL
Press 2 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAC2201.InAlarm	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAC2201.InAlarm - MainProgram/L2201_Press2_SludgeValve - 10(XIO)</i>		
ZAC2201.Disabled	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.MinDurationPRE	30000	DINT

PLC_SH

ZAC2201 (Continued)

Press 2 Sludge Valve Fail to Open		
ZAC2201.MinDurationACC	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCount	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.InAlarmDate	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.InAlarmTime	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.RefToNormalDate	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.RefToNormalTime	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCountResetDate	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCountResetTime	0	DINT
Press 2 Sludge Valve Fail to Open		

ZAO1101 ALRM PLC_SH

Solids Holding Tank 1 Control Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAO1101 - MainProgram/L1101_SHT1_ControlValve - *6(ALRM)</i>		
ZAO1101.EnableIn	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Enable Input - System Defined Parameter		
ZAO1101.EnableOut	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Enable Output - System Defined Parameter		
ZAO1101.Latched	1	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.OperReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
<i>ZAO1101.OperReset - MainProgram/L1101_SHT1_ControlValve - *9(OTL)</i>		
ZAO1101.ProgReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.OperDisable	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.OperEnable	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.AlarmCountReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Set to 1 to reset alarm count		
ZAO1101.InAlarm	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
<i>ZAO1101.InAlarm - MainProgram/L1101_SHT1_ControlValve - 10(XIO)</i>		
ZAO1101.Disabled	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.MinDurationPRE	30000	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.MinDurationACC	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.AlarmCount	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.InAlarmDate	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.InAlarmTime	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.RefToNormalDate	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.RefToNormalTime	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.AlarmCountResetDate	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.AlarmCountResetTime	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		

ZAO1201		ALRM	PLC_SH
Solids Holding Tank 2 Control Valve Fail to Open			
Constant	No		
External Access:	Read/Write		
<i>ZAO1201 - MainProgram/L1201_SHT2_ControlValve - *6(ALRM)</i>			
ZAO1201.EnableIn	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open Enable Input - System Defined Parameter			
ZAO1201.EnableOut	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open Enable Output - System Defined Parameter			
ZAO1201.Latched	1	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.OperReset	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open			
<i>ZAO1201.OperReset - MainProgram/L1201_SHT2_ControlValve - *9(OTL)</i>			
ZAO1201.ProgReset	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.OperDisable	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.OperEnable	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.AlarmCountReset	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open Set to 1 to reset alarm count			
ZAO1201.InAlarm	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open			
<i>ZAO1201.InAlarm - MainProgram/L1201_SHT2_ControlValve - 10(XIO)</i>			
ZAO1201.Disabled	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.MinDurationPRE	30000	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.MinDurationACC	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.AlarmCount	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.InAlarmDate	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.InAlarmTime	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.RetToNormalDate	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.RetToNormalTime	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.AlarmCountResetDate	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.AlarmCountResetTime	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			

ZAO2101		ALRM	PLC_SH
Press 1 Sludge Valve Fail to Open			
Constant	No		
External Access:	Read/Write		
<i>ZAO2101 - MainProgram/L2101_Press1_SludgeValve - *6(ALRM)</i>			
ZAO2101.EnableIn	0	BOOL	
Press 1 Sludge Valve Fail to Open Enable Input - System Defined Parameter			
ZAO2101.EnableOut	0	BOOL	
Press 1 Sludge Valve Fail to Open Enable Output - System Defined Parameter			
ZAO2101.Latched	1	BOOL	
Press 1 Sludge Valve Fail to Open			
ZAO2101.OperReset	0	BOOL	
Press 1 Sludge Valve Fail to Open			
<i>ZAO2101.OperReset - MainProgram/L2101_Press1_SludgeValve - *9(OTL)</i>			
ZAO2101.ProgReset	0	BOOL	
Press 1 Sludge Valve Fail to Open			
ZAO2101.OperDisable	0	BOOL	
Press 1 Sludge Valve Fail to Open			

ZAO2101 (Continued)		
ZAO2101.OperEnable	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.AlarmCountReset	0	BOOL
Press 1 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAO2101.InAlarm	0	BOOL
Press 1 Sludge Valve Fail to Open		
<i>ZAO2101.InAlarm - MainProgram/L2101_Press1_SludgeValve - 10(XIO)</i>		
ZAO2101.Disabled	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.MinDurationPRE	30000	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.MinDurationACC	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.AlarmCount	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.InAlarmDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.InAlarmTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.RetToNormalDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.RetToNormalTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.AlarmCountResetDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.AlarmCountResetTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2201		ALRM PLC_SH
Press 2 Sludge Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAO2201 - MainProgram/L2201_Press2_SludgeValve - *6(ALRM)</i>		
ZAO2201.EnableIn	0	BOOL
Press 2 Sludge Valve Fail to Open Enable Input - System Defined Parameter		
ZAO2201.EnableOut	0	BOOL
Press 2 Sludge Valve Fail to Open Enable Output - System Defined Parameter		
ZAO2201.Latched	1	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.OperReset	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAO2201.OperReset - MainProgram/L2201_Press2_SludgeValve - *9(OTL)</i>		
ZAO2201.ProgReset	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.OperDisable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.OperEnable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.AlarmCountReset	0	BOOL
Press 2 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAO2201.InAlarm	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAO2201.InAlarm - MainProgram/L2201_Press2_SludgeValve - 10(XIO)</i>		
ZAO2201.Disabled	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.MinDurationPRE	30000	DINT
Press 2 Sludge Valve Fail to Open		
ZAO2201.MinDurationACC	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAO2201.AlarmCount	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAO2201.InAlarmDate	0	DINT
Press 2 Sludge Valve Fail to Open		

ZAO2201 (Continued)			
ZAO2201.InAlarmTime	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.RetToNormalDate	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.RetToNormalTime	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.AlarmCountResetDate	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.AlarmCountResetTime	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZI1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1101 - MainProgram/L1101_SHT1_ControlValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)</i>			
ZI1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *2(OTE), 19(XIC), 9(XIC)</i>			
ZI1104A	0	BOOL	PLC_SH
Sludge Feed Pump 1 VFD Ready			
Constant	No		
External Access:	Read/Write		
<i>ZI1104A - MainProgram/L1104_SludgeFeedPump1_VFD - *1(OTE)</i>			
ZI1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1201 - MainProgram/L1201_SHT2_ControlValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)</i>			
ZI1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *2(OTE), 19(XIC), 9(XIC)</i>			
ZI1204A	0	BOOL	PLC_SH
Sluge Feed Pump 2 VFD Ready			
Constant	No		
External Access:	Read/Write		
<i>ZI1204A - MainProgram/L1204_SludgeFeedPump2_VFD - *1(OTE)</i>			
ZI2101	0	BOOL	PLC_SH
Press 1 Sludge Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI2101 - MainProgram/L2101_Press1_SludgeValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)</i>			
ZI2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI2106 - MainProgram/L2106_ScrewPressConveyor1 - *0(OTE), 6(XIC), 9(XIC)</i>			
ZI2201	0	BOOL	PLC_SH
Press 2 Sludge Valve Remote			
Constant	No		
External Access:	Read/Write		

ZI2201 (Continued)

ZI2201 - MainProgram/L2201_Press2_SludgeValve - *0(O TE), 10(XIC), 6(XIC), 7(XIC)

ZI2206 0 BOOL PLC_SH

Screw Press Conveyor 2 In Remote

Constant No

External Access: Read/Write

ZI2206 - MainProgram/L2206_ScrewPressConveyor2 - *0(O TE), 6(XIC), 9(XIC)

ZI3101 0 BOOL PLC_SH

Aeration Blower 1 In Remote

Constant No

External Access: Read/Write

ZI3101 - MainProgram/L3101_AerationBlower1_VFD - *0(O TE), 18(XIC), 7(XIC)

ZI3201 0 BOOL PLC_SH

Aeration Blower 2 In Remote

Constant No

External Access: Read/Write

ZI3201 - MainProgram/L3201_AerationBlower2_VFD - *0(O TE), 18(XIC), 7(XIC)

ZIC1101 0 BOOL PLC_SH

Solids Holding Tank 1 Control Valve Closed

Constant No

External Access: Read/Write

ZIC1101 - MainProgram/L1101_SHT1_ControlValve - *2(O TE), 7(XIO)

ZIC1201 0 BOOL PLC_SH

Solids Holding Tank 2 Control Valve Closed

Constant No

External Access: Read/Write

ZIC1201 - MainProgram/L1201_SHT2_ControlValve - *2(O TE), 7(XIO)

ZIC2101 0 BOOL PLC_SH

Press 1 Sludge Valve Closed

Constant No

External Access: Read/Write

ZIC2101 - MainProgram/L2101_Press1_SludgeValve - *2(O TE), 7(XIO)

ZIC2201 0 BOOL PLC_SH

Press 2 Sludge Valve Closed

Constant No

External Access: Read/Write

ZIC2201 - MainProgram/L2201_Press2_SludgeValve - *2(O TE), 7(XIO)

ZIO1101 0 BOOL PLC_SH

Solids Holding Tank 1 Control Valve Open

Constant No

External Access: Read/Write

ZIO1101 - MainProgram/L1100_PressControl - 0(XIO)

ZIO1101 - MainProgram/L1101_SHT1_ControlValve - *1(O TE), 6(XIO)

ZIO1201 0 BOOL PLC_SH

Solids Holding Tank 2 Control Valve Open

Constant No

External Access: Read/Write

ZIO1201 - MainProgram/L1100_PressControl - 1(XIO)

ZIO1201 - MainProgram/L1201_SHT2_ControlValve - *1(O TE), 6(XIO)

ZIO2101 0 BOOL PLC_SH

Press 1 Sludge Valve Open

Constant No

External Access: Read/Write

ZIO2101 - MainProgram/Communications - 30(XIC)

ZIO2101 (Continued)

ZIO2101 - MainProgram/L1100_PressControl - 7(XIC)

*ZIO2101 - MainProgram/L2101_Press1_SludgeValve - *1(OTE), 6(XIO)*

ZIO2201 0 BOOL PLC_SH

Press 2 Sludge Valve Open

Constant No

External Access: Read/Write

ZIO2201 - MainProgram/Communications - 30(XIC)

ZIO2201 - MainProgram/L1100_PressControl - 7(XIC)

*ZIO2201 - MainProgram/L2201_Press2_SludgeValve - *1(OTE), 6(XIO)*

ZS1104 0 BOOL PLC_SH

Sludge Feed Pump 1 E-Stop

Constant No

External Access: Read/Write

ZS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 11(XIC)

ZS1204 0 BOOL PLC_SH

Sludge Feed Pump 2 E-Stop

Constant No

External Access: Read/Write

ZS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 11(XIC)

ZS3101 0 BOOL PLC_SH

Aeration Blower 1 E-Stop

Constant No

External Access: Read/Write

ZS3101 - MainProgram/L3101_AerationBlower1_VFD - 9(XIC)

ZS3201 0 BOOL PLC_SH

Aeration Blower 2 E-Stop


















Constant No

External Access: Read/Write

ZS3201 - MainProgram/L3201_AerationBlower2_VFD - 9(XIC)

Controller PLC_SH
Controller Fault Handler
Power-Up Handler

Tasks **MainTask**




















-  **MainProgram**
-  **MainRoutine**
-  **PLCFault**
-  **Communications**
-  **L0000_Intrusion**
-  **L0000_Power**
-  **L1100_PressControl**
-  **L1101_SHT1_ControlValve**
-  **L1101_SHT1_Level**
-  **L1102_SHT1_BlanketLevel**
-  **L1104_SludgeFeedPump1_VFD**
-  **L1201_SHT2_ControlValve**
-  **L1204_SludgeFeedPump2_VFD**
-  **L2101_Press1_SludgeValve**
-  **L2106_ScrewPressConveyor1**
-  **L2201_Press2_SludgeValve**
-  **L2206_ScrewPressConveyor2**
-  **L3101_AerationBlower1_VFD**
-  **L3103_AerBlower_Pressure**
-  **L3201_AerationBlower2_VFD**

Unscheduled

Motion Groups

Ungrouped Axes

Add-On Instructions

-  **ALRM**
Alarm
 -  **Logic**
 -  **EnableInFalse**
-  **CODEMUX**
Event Code Multiplexer
 -  **Logic**
 -  **EnableInFalse**
-  **DG1**
PowerXL DG1 Eaton AC Drive Asm 21 - Asm 127 Input Size 10 INT Output Size 2 INT Revision 1.001
 -  **Logic**
 -  **EnableInFalse**
-  **FSR**
Forward / Stop / Reverse
 -  **Logic**
 -  **EnableInFalse**
-  **HEART**
Heart Beat / Count
 -  **Logic**
 -  **EnableInFalse**
-  **LL**
Position Lead/Lag Control Max 6
 -  **Logic**
 -  **EnableInFalse**
-  **OSC**
Open / Stop / Close

 **Logic**

 **EnableInFalse**

 **RH**

Run Hours

 **Logic**

 **EnableInFalse**

 **SCP**

Scale w/ Parameters

 **Logic**

 **EnableInFalse**

 **SS**

Start / Stop

 **Logic**

 **EnableInFalse**

Data Types

User-Defined

 **ALRM_Control**


 **ALRM_Status**

 **CODEMUX_Control**

 **CODEMUX_Status**

 **DateTime**

Date and Time

 **DG1_Control**

 **DG1_Status**

 **FSR_Control**

 **FSR_Status**

 **HEART_Control**

 **HEART_Status**

 **LL_Control**

 **LL_Status**

 **OSC_Control**

 **OSC_Status**

 **RH_Control**

 **RH_Status**

 **SCP_Control**

 **SCP_Status**

 **SS_Control**

 **SS_Status**

Strings

Add-On-Defined

ALRM

Alarm

CODEMUX

Event Code Multiplexer

DG1

PowerXL DG1 Eaton AC Drive Asm 21 - Asm 127 Input Size 10 INT Output Size 2 INT Revision 1.001

FSR

Forward / Stop / Reverse

HEART

Heart Beat / Count

LL

Position Lead/Lag Control Max 6

OSC

Open / Stop / Close

RH

Run Hours







SCP

Scale w/ Parameters

SS

Start / Stop







Module-Defined

-  AB:1769_DI16:I:0
-  AB:1769_DO8:C:0
-  AB:1769_DO8:I:0
-  AB:1769_DO8:O:0
-  AB:1769_IF8:C:0
-  AB:1769_IF8:I:0
-  AB:1769_IF8:O:0
-  _0044:DG1_7377BDB4:O:0
-  _0044:DG1_7E5A1DEB:I:0




Trends

I/O Configuration

1769 Bus

-  [0] 1769-L33ER PLC_SH
-  [1] 1769-IQ16/A S1
-  [2] 1769-IQ16/A S2
-  [3] 1769-OW8I/B S3
-  [4] 1769-OW8I/B S4
-  [5] 1769-IF8/A S5

Ethernet

-  1769-L33ER PLC_SH
-  <EDS not registered> VFD1104
-  <EDS not registered> VFD1204

General

Vendor:	Rockwell Automation/Allen-Bradley	Mode:	Offline
Revision:	32.011	Key Switch Position:	Offline
Chassis Type:	<none>	Created:	5/18/2022 7:52:27 AM
Slot:	0	Edited:	11/7/2022 10:42:43 AM

Date/Time

Date and Time:	<offline>
Time Zone:	<offline>
Daylight Saving (+00:00):	<offline>
Enable Time Synchronization:	No
Is the system time master:	<offline>
Is a synchronized time slave:	<offline>
Duplicate CST Master Detected:	<offline>
CST Mastership disabled:	<offline>
No CST Master:	<offline>

Advanced Time Sync

CIP Sync Time Synchronization:	Disabled
--------------------------------	----------

Advanced

Controller Fault Handler:	<none>	Match Project To Controller:	No
Power-Up Handler:	<none>	Serial Number:	D0423C96
System Overhead Time Slice:	20 %	Allow Consumed Tags to Use RPI Provided by Producer:	No
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		

Nonvolatile Memory

<offline>

Memory (Estimate)

Memory Option:	1769-L33ER		
Estimated I/O Memory			
Total Memory:	1,048,576 bytes	Max Used:	7,680 bytes
Free Memory:	1,040,896 bytes	Largest Block Free:	1,040,896 bytes
Used Memory:	7,680 bytes		
Estimated Data and Logic Memory			
Total Memory:	2,097,152 bytes	Max Used:	316,308 bytes
Free Memory:	1,780,844 bytes	Largest Block Free:	1,780,844 bytes
Used Memory:	316,308 bytes		

Security:

Primary Security Authority:	No Protection	Restrict Communications Except Through Selected Slots: Selected Slots:	No
Use only the selected Security Authority for Authentication and Authorization:	No		
Secondary Security Authority:	No Protection	Changes To Detect: Audit Value:	16#ffff_fff_fff_fff <offline>
Use only the selected Security Authority for Authentication and Authorization:	No		
Permission Set:	No		

Port Configuration

Port 1	
Enable:	Yes
Port 2	
Enable:	Yes

Name	Value	Data Type	Scope
Dummy	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>Dummy - MainProgram/L3101_AerationBlower1_VFD - *3(OTE)</i>			
<i>Dummy - MainProgram/L3201_AerationBlower2_VFD - *3(OTE)</i>			
FSR2106		FSR	PLC_SH
Screw Press Conveyor 1 FSR			
Constant	No		
External Access:	Read/Write		
<i>FSR2106 - MainProgram/L2106_ScrewPressConveyor1 - *13(FSR)</i>			
FSR2106.EnableIn	0	BOOL	
Screw Press Conveyor 1 FSR Enable Input - System Defined Parameter			
FSR2106.EnableOut	0	BOOL	
Screw Press Conveyor 1 FSR Enable Output - System Defined Parameter			
FSR2106.HMIAuto	0	BOOL	
Screw Press Conveyor 1 FSR HMI Auto			
<i>FSR2106.HMIAuto - MainProgram/L1100_PressControl - 3(XIO)</i>			
FSR2106.AutoForward	0	BOOL	
Screw Press Conveyor 1 FSR Auto Forward Command			
<i>FSR2106.AutoForward - MainProgram/L2106_ScrewPressConveyor1 - *11(OTE)</i>			
FSR2106.AutoStop	0	BOOL	
Screw Press Conveyor 1 FSR Auto Stop Command			
FSR2106.AutoReverse	0	BOOL	
Screw Press Conveyor 1 FSR Auto Reverse Command			
<i>FSR2106.AutoReverse - MainProgram/L2106_ScrewPressConveyor1 - *12(OTE)</i>			
FSR2106.HMIForward	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Forward			
FSR2106.HMISTop	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Stop			
FSR2106.HMIRreverse	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Reverse			
FSR2106.ForwardCmd	0	BOOL	
Screw Press Conveyor 1 FSR Forward Command			
<i>FSR2106.ForwardCmd - MainProgram/L2106_ScrewPressConveyor1 - 3(XIC), 5(XIC), 6(XIO)</i>			
FSR2106.StopCmd	1	BOOL	
Screw Press Conveyor 1 FSR Stop Command			
FSR2106.ReverseCmd	0	BOOL	
Screw Press Conveyor 1 FSR Reverse Command			
<i>FSR2106.ReverseCmd - MainProgram/L2106_ScrewPressConveyor1 - 4(XIC), 5(XIC), 6(XIO)</i>			
FSR2106.RestartActive	0	BOOL	
Screw Press Conveyor 1 FSR Restart Delay Active			
FSR2106.RestartPRE	2000	DINT	
Screw Press Conveyor 1 FSR Restart Delay Preset (Milliseconds)			
FSR2106.RestartTime	0	DINT	
Screw Press Conveyor 1 FSR Actual Restart Time (Times Down)			
FSR2206		FSR	PLC_SH
Screw Press Conveyor 2 FSR			
Constant	No		
External Access:	Read/Write		
<i>FSR2206 - MainProgram/L2206_ScrewPressConveyor2 - *13(FSR)</i>			
FSR2206.EnableIn	0	BOOL	
Screw Press Conveyor 2 FSR Enable Input - System Defined Parameter			
FSR2206.EnableOut	0	BOOL	
Screw Press Conveyor 2 FSR Enable Output - System Defined Parameter			
FSR2206.HMIAuto	0	BOOL	
Screw Press Conveyor 2 FSR HMI Auto			
<i>FSR2206.HMIAuto - MainProgram/L1100_PressControl - 4(XIO)</i>			
FSR2206.AutoForward	0	BOOL	
Screw Press Conveyor 2 FSR Auto Forward Command			
<i>FSR2206.AutoForward - MainProgram/L2206_ScrewPressConveyor2 - *11(OTE)</i>			
FSR2206.AutoStop	0	BOOL	

FSR2206 (Continued)			
Screw Press Conveyor 2 FSR Auto Stop Command			
FSR2206.AutoReverse	0	BOOL	
Screw Press Conveyor 2 FSR Auto Reverse Command			
<i>FSR2206.AutoReverse - MainProgram/L2206_ScrewPressConveyor2 - *12(OTE)</i>			
FSR2206.HMIForward	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Forward			
FSR2206.HMIStop	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Stop			
FSR2206.HMIReverse	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Reverse			
FSR2206.ForwardCmd	0	BOOL	
Screw Press Conveyor 2 FSR Forward Command			
<i>FSR2206.ForwardCmd - MainProgram/L2206_ScrewPressConveyor2 - 3(XIC), 5(XIC), 6(XIO)</i>			
FSR2206.StopCmd	1	BOOL	
Screw Press Conveyor 2 FSR Stop Command			
FSR2206.ReverseCmd	0	BOOL	
Screw Press Conveyor 2 FSR Reverse Command			
<i>FSR2206.ReverseCmd - MainProgram/L2206_ScrewPressConveyor2 - 4(XIC), 5(XIC), 6(XIO)</i>			
FSR2206.RestartActive	0	BOOL	
Screw Press Conveyor 2 FSR Restart Delay Active			
FSR2206.RestartPRE	2000	DINT	
Screw Press Conveyor 2 FSR Restart Delay Preset (Milliseconds)			
FSR2206.RestartTime	0	DINT	
Screw Press Conveyor 2 FSR Actual Restart Time (Times Down)			
HEART		HEART	PLC_SH
Heart Beat / Count			
Constant	No		
External Access:	Read/Write		
<i>HEART - MainProgram/MainRoutine - *1(HEART)</i>			
HEART.EnableIn	1	BOOL	
Heart Beat / Count Enable Input - System Defined Parameter			
HEART.EnableOut	1	BOOL	
Heart Beat / Count Enable Output - System Defined Parameter			
HEART.Beat	0	BOOL	
Heart Beat / Count			
<i>HEART.Beat - MainProgram/Communications - 0(XIC), 15(XIC)</i>			
HEART.Count	15076	DINT	
Heart Beat / Count			
<i>HEART.Count - MainProgram/Communications - 31(MOV)</i>			
HEART.BeatSP	0	DINT	
Heart Beat / Count Beat Set Point (Seconds)			
HS_PLC	0	BOOL	PLC_SH
HMI Clock Set			
Constant	No		
External Access:	Read/Write		
<i>HS_PLC - MainProgram/MainRoutine - *6(OTU), 6(XIC)</i>			
HS406T	0	BOOL	PLC_SH
Secondary Sludge Pumps Solids Handling Mode Enable			
Constant	No		
External Access:	Read/Write		
<i>HS406T - MainProgram/Communications - *38(OTE), 32(XIC), 32(XIO)</i>			
<i>HS406T - MainProgram/L1100_PressControl - 2(XIO)</i>			
HS1100A	0	BOOL	PLC_SH
Press 1 SCADA Start			
Constant	No		
External Access:	Read/Write		
<i>HS1100A - MainProgram/Communications - 1(XIC), 2(XIO)</i>			
<i>HS1100A - MainProgram/L1100_PressControl - *5(OTU), 5(XIC)</i>			
<i>HS1100A - MainProgram/L1101_SHT1_ControlValve - 12(XIC)</i>			

HS1100B	0	BOOL	PLC_SH
Press 2 SCADA Start			
Constant	No		
External Access:	Read/Write		
<i>HS1100B - MainProgram/Communications - 16(XIC), 17(XIO)</i>			
<i>HS1100B - MainProgram/L1100_PressControl - *6(OTU), 6(XIC)</i>			
<i>HS1100B - MainProgram/L1201_SHT2_ControlValve - 12(XIC)</i>			
HS1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1101 - MainProgram/L1101_SHT1_ControlValve - *9(OTU), 9(XIC)</i>			
HS1101A	0	BOOL	PLC_SH
Sludge Holding Tank 1 Level HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1101A - MainProgram/L1101_SHT1_Level - *4(OTU), 4(XIC)</i>			
HS1101AS	0	BOOL	PLC_SH
Sludge Holding Tank 1 Level HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1101AS - MainProgram/L1101_SHT1_Level - 1(XIC), 2(XIC), 3(XIC)</i>			
HS1101S	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1101S - MainProgram/L1101_SHT1_ControlValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
HS1102	0	BOOL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1102 - MainProgram/L1102_SHT1_BlanketLevel - *4(OTU), 4(XIC)</i>			
HS1102S	0	BOOL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1102S - MainProgram/L1102_SHT1_BlanketLevel - 1(XIC), 2(XIC), 3(XIC)</i>			
HS1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTU), 18(XIC)</i>			
HS1104A	0	BOOL	PLC_SH
Sludge Feed Pump 1 Speed Man/Auto (0=Man) (1=Auto)			
Constant	No		
External Access:	Read/Write		
<i>HS1104A - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC), 23(XIO)</i>			
HS1104S	0	BOOL	PLC_SH
Sludge Feed Pump 1 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS1104S - MainProgram/L1104_SludgeFeedPump1_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 17(XIC), 19(XIC), 8(XIC), 9(XIC)</i>			
HS1201	0	BOOL	PLC_SH

HS1201 (Continued)			
Solids Holding Tank 2 Control Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1201 - MainProgram/L1201_SHT2_ControlValve - *9(OTU), 9(XIC)</i>			
HS1201S	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1201S - MainProgram/L1201_SHT2_ControlValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
HS1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTU), 18(XIC)</i>			
HS1204A	0	BOOL	PLC_SH
Sludge Feed Pump 2 Speed Man/Auto (0=Man) (1=Auto)			
Constant	No		
External Access:	Read/Write		
<i>HS1204A - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC), 23(XIO)</i>			
HS1204S	0	BOOL	PLC_SH
Sludge Feed Pump 2 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS1204S - MainProgram/L1204_SludgeFeedPump2_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 17(XIC), 19(XIC), 8(XIC), 9(XIC)</i>			
HS2101	0	BOOL	PLC_SH
Press 1 Sludge Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2101 - MainProgram/L2101_Press1_SludgeValve - *9(OTU), 9(XIC)</i>			
HS2101S	0	BOOL	PLC_SH
Press 1 Sludge Valve HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS2101S - MainProgram/L2101_Press1_SludgeValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
HS2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2106 - MainProgram/L2106_ScrewPressConveyor1 - *8(OTU), 8(XIC)</i>			
HS2106S	0	BOOL	PLC_SH
Screw Press Conveyor 1 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS2106S - MainProgram/L2106_ScrewPressConveyor1 - 5(XIC), 6(XIC), 7(XIC), 9(XIC)</i>			
HS2201	0	BOOL	PLC_SH
Press 2 Sludge Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2201 - MainProgram/L2201_Press2_SludgeValve - *9(OTU), 9(XIC)</i>			
HS2201S	0	BOOL	PLC_SH
Press 2 Sludge Valve HMI Service			
Constant	No		

HS2201S (Continued)			
External Access:	Read/Write		
<i>HS2201S - MainProgram/L2201_Press2_SludgeValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
HS2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2206 - MainProgram/L2206_ScrewPressConveyor2 - *8(OTU), 8(XIC)</i>			
HS2206S	0	BOOL	PLC_SH
Screw Press Conveyor 2 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS2206S - MainProgram/L2206_ScrewPressConveyor2 - 5(XIC), 6(XIC), 7(XIC), 9(XIC)</i>			
HS3101	0	BOOL	PLC_SH
Aeration Blower 1 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS3101 - MainProgram/L3101_AerationBlower1_VFD - *17(OTU), 17(XIC)</i>			
HS3101S	0	BOOL	PLC_SH
Aeration Blower 1 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS3101S - MainProgram/L3101_AerationBlower1_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 18(XIC), 6(XIC), 7(XIC), 8(XIC), 9(XIC)</i>			
HS3103	0	BOOL	PLC_SH
Aeration Blower Pressure HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS3103 - MainProgram/L3103_AerBlower_Pressure - *4(OTU), 4(XIC)</i>			
HS3103S	0	BOOL	PLC_SH
Aeration Blower Pressure HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS3103S - MainProgram/L3103_AerBlower_Pressure - 1(XIC), 2(XIC), 3(XIC)</i>			
HS3201	0	BOOL	PLC_SH
Aeration Blower 2 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS3201 - MainProgram/L3201_AerationBlower2_VFD - *17(OTU), 17(XIC)</i>			
HS3201S	0	BOOL	PLC_SH
Aeration Blower 2 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS3201S - MainProgram/L3201_AerationBlower2_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 18(XIC), 6(XIC), 7(XIC), 8(XIC), 9(XIC)</i>			
IAH1104		ALRM	PLC_SH
Sludge Feed Pump 1 Overload			
Constant	No		
External Access:	Read/Write		
<i>IAH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *16(ALRM)</i>			
IAH1104.EnableIn	0	BOOL	
Sludge Feed Pump 1 Overload Enable Input - System Defined Parameter			
IAH1104.EnableOut	0	BOOL	
Sludge Feed Pump 1 Overload Enable Output - System Defined Parameter			
IAH1104.Latched	0	BOOL	

IAH1104 (Continued)

Sludge Feed Pump 1 Overload		
IAH1104.OperReset	0	BOOL
Sludge Feed Pump 1 Overload		
<i>IAH1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
IAH1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Overload		
IAH1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Overload		
IAH1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Overload		
IAH1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Overload Set to 1 to reset alarm count		
IAH1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Overload		
<i>IAH1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
IAH1104.Disabled	0	BOOL
Sludge Feed Pump 1 Overload		
IAH1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Overload		
IAH1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Overload		

IAH1204		ALRM	PLC_SH
Sludge Feed Pump 2 Overload			
Constant	No		
External Access:	Read/Write		
<i>IAH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *16(ALRM)</i>			
IAH1204.EnableIn	0	BOOL	
Sludge Feed Pump 2 Overload Enable Input - System Defined Parameter			
IAH1204.EnableOut	0	BOOL	
Sludge Feed Pump 2 Overload Enable Output - System Defined Parameter			
IAH1204.Latched	0	BOOL	
Sludge Feed Pump 2 Overload			
IAH1204.OperReset	0	BOOL	
Sludge Feed Pump 2 Overload			
<i>IAH1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>			
IAH1204.ProgReset	0	BOOL	
Sludge Feed Pump 2 Overload			
IAH1204.OperDisable	0	BOOL	
Sludge Feed Pump 2 Overload			
IAH1204.OperEnable	0	BOOL	
Sludge Feed Pump 2 Overload			
IAH1204.AlarmCountReset	0	BOOL	
Sludge Feed Pump 2 Overload Set to 1 to reset alarm count			
IAH1204.InAlarm	0	BOOL	
Sludge Feed Pump 2 Overload			
<i>IAH1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>			
IAH1204.Disabled	0	BOOL	
Sludge Feed Pump 2 Overload			

IAH1204 (Continued)

IAH1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Overload		
IAH1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Overload		

IAH3101 ALRM PLC_SH

Aeration Blower 1 Overload		
Constant	No	
External Access:	Read/Write	
<i>IAH3101 - MainProgram/L3101_AerationBlower1_VFD - *14(ALRM)</i>		
IAH3101.EnableIn	0	BOOL
Aeration Blower 1 Overload Enable Input - System Defined Parameter		
IAH3101.EnableOut	0	BOOL
Aeration Blower 1 Overload Enable Output - System Defined Parameter		
IAH3101.Latched	0	BOOL
Aeration Blower 1 Overload		
IAH3101.OperReset	0	BOOL
Aeration Blower 1 Overload		
<i>IAH3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
IAH3101.ProgReset	0	BOOL
Aeration Blower 1 Overload		
IAH3101.OperDisable	0	BOOL
Aeration Blower 1 Overload		
IAH3101.OperEnable	0	BOOL
Aeration Blower 1 Overload		
IAH3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Overload Set to 1 to reset alarm count		
IAH3101.InAlarm	0	BOOL
Aeration Blower 1 Overload		
<i>IAH3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
IAH3101.Disabled	0	BOOL
Aeration Blower 1 Overload		
IAH3101.MinDurationPRE	0	DINT
Aeration Blower 1 Overload		
IAH3101.MinDurationACC	0	DINT
Aeration Blower 1 Overload		
IAH3101.AlarmCount	0	DINT
Aeration Blower 1 Overload		
IAH3101.InAlarmDate	0	DINT
Aeration Blower 1 Overload		
IAH3101.InAlarmTime	0	DINT
Aeration Blower 1 Overload		
IAH3101.RetToNormalDate	0	DINT
Aeration Blower 1 Overload		
IAH3101.RetToNormalTime	0	DINT
Aeration Blower 1 Overload		
IAH3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Overload		
IAH3101.AlarmCountResetTime	0	DINT

IAH3101 (Continued)

Aeration Blower 1 Overload

IAH3201 ALRM PLC_SH

Aeration Blower 2 Overload

Constant No

External Access: Read/Write

*IAH3201 - MainProgram/L3201_AerationBlower2_VFD - *14(ALRM)*

IAH3201.EnableIn 0 BOOL

Aeration Blower 2 Overload Enable Input - System Defined Parameter

IAH3201.EnableOut 0 BOOL

Aeration Blower 2 Overload Enable Output - System Defined Parameter

IAH3201.Latched 0 BOOL

Aeration Blower 2 Overload

IAH3201.OperReset 0 BOOL

Aeration Blower 2 Overload

*IAH3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)*

IAH3201.ProgReset 0 BOOL

Aeration Blower 2 Overload

IAH3201.OperDisable 0 BOOL

Aeration Blower 2 Overload

IAH3201.OperEnable 0 BOOL

Aeration Blower 2 Overload

IAH3201.AlarmCountReset 0 BOOL

Aeration Blower 2 Overload Set to 1 to reset alarm count

IAH3201.InAlarm 0 BOOL

Aeration Blower 2 Overload

IAH3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)

IAH3201.Disabled 0 BOOL

Aeration Blower 2 Overload

IAH3201.MinDurationPRE 0 DINT

Aeration Blower 2 Overload

IAH3201.MinDurationACC 0 DINT

Aeration Blower 2 Overload

IAH3201.AlarmCount 0 DINT

Aeration Blower 2 Overload

IAH3201.InAlarmDate 0 DINT

Aeration Blower 2 Overload

IAH3201.InAlarmTime 0 DINT

Aeration Blower 2 Overload

IAH3201.RetToNormalDate 0 DINT

Aeration Blower 2 Overload

IAH3201.RetToNormalTime 0 DINT

Aeration Blower 2 Overload

IAH3201.AlarmCountResetDate 0 DINT

Aeration Blower 2 Overload

IAH3201.AlarmCountResetTime 0 DINT

Aeration Blower 2 Overload

IAL1104 ALRM PLC_SH

Sludge Feed Pump 1 Surge

Constant No

External Access: Read/Write

*IAL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *15(ALRM)*

IAL1104.EnableIn 0 BOOL

Sludge Feed Pump 1 Surge Enable Input - System Defined Parameter

IAL1104.EnableOut 0 BOOL

Sludge Feed Pump 1 Surge Enable Output - System Defined Parameter

IAL1104.Latched 0 BOOL

Sludge Feed Pump 1 Surge

IAL1104.OperReset 0 BOOL

Sludge Feed Pump 1 Surge

*IAL1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)*

IAL1104.ProgReset 0 BOOL

IAL1104 (Continued)		
Sludge Feed Pump 1 Surge		
IAL1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Surge		
IAL1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Surge		
IAL1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Surge Set to 1 to reset alarm count		
IAL1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Surge		
<i>IAL1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
IAL1104.Disabled	0	BOOL
Sludge Feed Pump 1 Surge		
IAL1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Surge		
IAL1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Surge		
IAL1204		ALRM PLC_SH
Sludge Feed Pump 2 Surge		
Constant	No	
External Access:	Read/Write	
<i>IAL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *15(ALRM)</i>		
IAL1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Surge Enable Input - System Defined Parameter		
IAL1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Surge Enable Output - System Defined Parameter		
IAL1204.Latched	0	BOOL
Sludge Feed Pump 2 Surge		
IAL1204.OperReset	0	BOOL
Sludge Feed Pump 2 Surge		
<i>IAL1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
IAL1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Surge		
IAL1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Surge		
IAL1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Surge		
IAL1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Surge Set to 1 to reset alarm count		
IAL1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Surge		
<i>IAL1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
IAL1204.Disabled	0	BOOL
Sludge Feed Pump 2 Surge		
IAL1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.AlarmCount	0	DINT

IAL1204 (Continued)

Sludge Feed Pump 2 Surge		
IAL1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Surge		
IAL1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Surge		

IAL3101 ALRM PLC_SH

Aeration Blower 1 Surge		
Constant	No	
External Access:	Read/Write	
<i>IAL3101 - MainProgram/L3101_AerationBlower1_VFD - *13(ALRM)</i>		
IAL3101.EnableIn	0	BOOL
Aeration Blower 1 Surge Enable Input - System Defined Parameter		
IAL3101.EnableOut	0	BOOL
Aeration Blower 1 Surge Enable Output - System Defined Parameter		
IAL3101.Latched	0	BOOL
Aeration Blower 1 Surge		
IAL3101.OperReset	0	BOOL
Aeration Blower 1 Surge		
<i>IAL3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
IAL3101.ProgReset	0	BOOL
Aeration Blower 1 Surge		
IAL3101.OperDisable	0	BOOL
Aeration Blower 1 Surge		
IAL3101.OperEnable	0	BOOL
Aeration Blower 1 Surge		
IAL3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Surge Set to 1 to reset alarm count		
IAL3101.InAlarm	0	BOOL
Aeration Blower 1 Surge		
<i>IAL3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
IAL3101.Disabled	0	BOOL
Aeration Blower 1 Surge		
IAL3101.MinDurationPRE	0	DINT
Aeration Blower 1 Surge		
IAL3101.MinDurationACC	0	DINT
Aeration Blower 1 Surge		
IAL3101.AlarmCount	0	DINT
Aeration Blower 1 Surge		
IAL3101.InAlarmDate	0	DINT
Aeration Blower 1 Surge		
IAL3101.InAlarmTime	0	DINT
Aeration Blower 1 Surge		
IAL3101.RetToNormalDate	0	DINT
Aeration Blower 1 Surge		
IAL3101.RetToNormalTime	0	DINT
Aeration Blower 1 Surge		
IAL3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Surge		
IAL3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Surge		

IAL3201 ALRM PLC_SH

Aeration Blower 2 Surge		
Constant	No	

IAL3201 (Continued)			
External Access:	Read/Write		
<i>IAL3201 - MainProgram/L3201_AerationBlower2_VFD - *13(ALRM)</i>			
IAL3201.EnableIn	0	BOOL	
Aeration Blower 2 Surge Enable Input - System Defined Parameter			
IAL3201.EnableOut	0	BOOL	
Aeration Blower 2 Surge Enable Output - System Defined Parameter			
IAL3201.Latched	0	BOOL	
Aeration Blower 2 Surge			
IAL3201.OperReset	0	BOOL	
Aeration Blower 2 Surge			
<i>IAL3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
IAL3201.ProgReset	0	BOOL	
Aeration Blower 2 Surge			
IAL3201.OperDisable	0	BOOL	
Aeration Blower 2 Surge			
IAL3201.OperEnable	0	BOOL	
Aeration Blower 2 Surge			
IAL3201.AlarmCountReset	0	BOOL	
Aeration Blower 2 Surge Set to 1 to reset alarm count			
IAL3201.InAlarm	0	BOOL	
Aeration Blower 2 Surge			
<i>IAL3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>			
IAL3201.Disabled	0	BOOL	
Aeration Blower 2 Surge			
IAL3201.MinDurationPRE	0	DINT	
Aeration Blower 2 Surge			
IAL3201.MinDurationACC	0	DINT	
Aeration Blower 2 Surge			
IAL3201.AlarmCount	0	DINT	
Aeration Blower 2 Surge			
IAL3201.InAlarmDate	0	DINT	
Aeration Blower 2 Surge			
IAL3201.InAlarmTime	0	DINT	
Aeration Blower 2 Surge			
IAL3201.RetToNormalDate	0	DINT	
Aeration Blower 2 Surge			
IAL3201.RetToNormalTime	0	DINT	
Aeration Blower 2 Surge			
IAL3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Surge			
IAL3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Surge			
ISH1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 16(XIC)</i>			
ISH1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 16(XIC)</i>			
ISH3101	0	BOOL	PLC_SH
Aeration Blower 1			
Overstand	No		
External Access:	Read/Write		
<i>ISH3101 - MainProgram/L3101_AerationBlower1_VFD - 14(XIC)</i>			
ISH3201	0	BOOL	PLC_SH

ISH3201 (Continued)			
Aeration Blower 2			
Overload	No		
External Access:	Read/Write		
<i>ISH3201 - MainProgram/L3201_AerationBlower2_VFD - 14(XIC)</i>			
ISL1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Surge			
Constant	No		
External Access:	Read/Write		
<i>ISL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 15(XIC)</i>			
ISL1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Surge			
Constant	No		
External Access:	Read/Write		
<i>ISL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 15(XIC)</i>			
ISL3101	0	BOOL	PLC_SH
Aeration Blower 1 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISL3101 - MainProgram/L3101_AerationBlower1_VFD - 13(XIC)</i>			
ISL3201	0	BOOL	PLC_SH
Aeration Blower 2 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISL3201 - MainProgram/L3201_AerationBlower2_VFD - 13(XIC)</i>			
JA_PLC		ALRM	PLC_SH
PLC Battery Low			
Constant	No		
External Access:	Read/Write		
<i>JA_PLC - MainProgram/MainRoutine - *2(ALRM)</i>			
JA_PLC.EnableIn	0	BOOL	
PLC Battery Low Enable Input - System Defined Parameter			
JA_PLC.EnableOut	0	BOOL	
PLC Battery Low Enable Output - System Defined Parameter			
JA_PLC.Latched	0	BOOL	
PLC Battery Low			
JA_PLC.OperReset	0	BOOL	
PLC Battery Low			
JA_PLC.ProgReset	0	BOOL	
PLC Battery Low			
JA_PLC.OperDisable	0	BOOL	
PLC Battery Low			
JA_PLC.OperEnable	0	BOOL	
PLC Battery Low			
JA_PLC.AlarmCountReset	0	BOOL	
PLC Battery Low Set to 1 to reset alarm count			
JA_PLC.InAlarm	0	BOOL	
PLC Battery Low			
JA_PLC.Disabled	0	BOOL	
PLC Battery Low			
JA_PLC.MinDurationPRE	0	DINT	
PLC Battery Low			
JA_PLC.MinDurationACC	0	DINT	
PLC Battery Low			
JA_PLC.AlarmCount	0	DINT	
PLC Battery Low			
JA_PLC.InAlarmDate	0	DINT	
PLC Battery Low			
JA_PLC.InAlarmTime	0	DINT	

JA_PLC (Continued)			
PLC Battery Low			
JA_PLC.RetToNormalDate	0		DINT
PLC Battery Low			
JA_PLC.RetToNormalTime	0		DINT
PLC Battery Low			
JA_PLC.AlarmCountResetDate	0		DINT
PLC Battery Low			
JA_PLC.AlarmCountResetTime	0		DINT
PLC Battery Low			
JA_SH		ALRM	PLC_SH
SPD Fail Alarm			
Constant	No		
External Access:	Read/Write		
<i>JA_SH - MainProgram/L0000_Power - *7(ALRM)</i>			
JA_SH.EnableIn	0		BOOL
SPD Fail Alarm Enable Input - System Defined Parameter			
JA_SH.EnableOut	0		BOOL
SPD Fail Alarm Enable Output - System Defined Parameter			
JA_SH.Latched	0		BOOL
SPD Fail Alarm			
JA_SH.OperReset	0		BOOL
SPD Fail Alarm			
JA_SH.ProgReset	0		BOOL
SPD Fail Alarm			
JA_SH.OperDisable	0		BOOL
SPD Fail Alarm			
JA_SH.OperEnable	0		BOOL
SPD Fail Alarm			
JA_SH.AlarmCountReset	0		BOOL
SPD Fail Alarm Set to 1 to reset alarm count			
JA_SH.InAlarm	0		BOOL
SPD Fail Alarm			
JA_SH.Disabled	0		BOOL
SPD Fail Alarm			
JA_SH.MinDurationPRE	5000		DINT
SPD Fail Alarm			
JA_SH.MinDurationACC	0		DINT
SPD Fail Alarm			
JA_SH.AlarmCount	2		DINT
SPD Fail Alarm			
JA_SH.InAlarmDate	1011998		DINT
SPD Fail Alarm			
JA_SH.InAlarmTime	1032		DINT
SPD Fail Alarm			
JA_SH.RetToNormalDate	10272022		DINT
SPD Fail Alarm			
JA_SH.RetToNormalTime	120926		DINT
SPD Fail Alarm			
JA_SH.AlarmCountResetDate	0		DINT
SPD Fail Alarm			
JA_SH.AlarmCountResetTime	0		DINT
SPD Fail Alarm			
JA_SH_A		ALRM	PLC_SH
DC Power Supply A Fail Alarm			
Constant	No		
External Access:	Read/Write		
<i>JA_SH_A - MainProgram/L0000_Power - *8(ALRM)</i>			
JA_SH_A.EnableIn	0		BOOL
DC Power Supply A Fail Alarm Enable Input - System Defined Parameter			
JA_SH_A.EnableOut	0		BOOL
DC Power Supply A Fail Alarm Enable Output - System Defined Parameter			

JA_SH_A (Continued)		
JA_SH_A.Latched	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.OperReset	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.ProgReset	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.OperDisable	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.OperEnable	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCountReset	0	BOOL
DC Power Supply A Fail Alarm Set to 1 to reset alarm count		
JA_SH_A.InAlarm	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.Disabled	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.MinDurationPRE	5000	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.MinDurationACC	5000	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCount	4	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.InAlarmDate	1011998	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.InAlarmTime	3222	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.RetToNormalDate	10272022	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.RetToNormalTime	120926	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCountResetDate	0	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCountResetTime	0	DINT
DC Power Supply A Fail Alarm		
JA_SH_B		ALRM
DC Power Supply B Fail Alarm		PLC_SH
Constant	No	
External Access:	Read/Write	
<i>JA_SH_B - MainProgram/L0000_Power - *9(ALRM)</i>		
JA_SH_B.EnableIn	0	BOOL
DC Power Supply B Fail Alarm Enable Input - System Defined Parameter		
JA_SH_B.EnableOut	0	BOOL
DC Power Supply B Fail Alarm Enable Output - System Defined Parameter		
JA_SH_B.Latched	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.OperReset	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.ProgReset	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.OperDisable	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.OperEnable	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCountReset	0	BOOL
DC Power Supply B Fail Alarm Set to 1 to reset alarm count		
JA_SH_B.InAlarm	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.Disabled	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.MinDurationPRE	5000	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.MinDurationACC	5000	DINT

JA_SH_B (Continued)		
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCount	3	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.InAlarmDate	1011998	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.InAlarmTime	3222	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.RefToNormalDate	10272022	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.RetToNormalTime	120926	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCountResetDate	0	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCountResetTime	0	DINT
DC Power Supply B Fail Alarm		
JA_UPSA		ALRM
UPS Fail Alarm		
Constant	No	
External Access:	Read/Write	
<i>JA_UPSA - MainProgram/L0000_Power - *10(ALRM)</i>		
JA_UPSA.EnableIn	0	BOOL
UPS Fail Alarm Enable Input - System Defined Parameter		
JA_UPSA.EnableOut	0	BOOL
UPS Fail Alarm Enable Output - System Defined Parameter		
JA_UPSA.Latched	0	BOOL
UPS Fail Alarm		
JA_UPSA.OperReset	0	BOOL
UPS Fail Alarm		
JA_UPSA.ProgReset	0	BOOL
UPS Fail Alarm		
JA_UPSA.OperDisable	0	BOOL
UPS Fail Alarm		
JA_UPSA.OperEnable	0	BOOL
UPS Fail Alarm		
JA_UPSA.AlarmCountReset	0	BOOL
UPS Fail Alarm Set to 1 to reset alarm count		
JA_UPSA.InAlarm	0	BOOL
UPS Fail Alarm		
JA_UPSA.Disabled	0	BOOL
UPS Fail Alarm		
JA_UPSA.MinDurationPRE	5000	DINT
UPS Fail Alarm		
JA_UPSA.MinDurationACC	0	DINT
UPS Fail Alarm		
JA_UPSA.AlarmCount	1	DINT
UPS Fail Alarm		
JA_UPSA.InAlarmDate	1011998	DINT
UPS Fail Alarm		
JA_UPSA.InAlarmTime	144	DINT
UPS Fail Alarm		
JA_UPSA.RetToNormalDate	10272022	DINT
UPS Fail Alarm		
JA_UPSA.RetToNormalTime	120926	DINT
UPS Fail Alarm		
JA_UPSA.AlarmCountResetDate	0	DINT
UPS Fail Alarm		
JA_UPSA.AlarmCountResetTime	0	DINT
UPS Fail Alarm		
JA_UPSB		ALRM
UPS On Battery Alarm		
Constant	No	

PLC_SH

PLC_SH

JA_UPSB (Continued)

External Access:	Read/Write	
<i>JA_UPSB - MainProgram/L0000_Power - *11(ALRM)</i>		
JA_UPSB.EnableIn	0	BOOL
UPS On Battery Alarm Enable Input - System Defined Parameter		
JA_UPSB.EnableOut	0	BOOL
UPS On Battery Alarm Enable Output - System Defined Parameter		
JA_UPSB.Latched	0	BOOL
UPS On Battery Alarm		
JA_UPSB.OperReset	0	BOOL
UPS On Battery Alarm		
JA_UPSB.ProgReset	0	BOOL
UPS On Battery Alarm		
JA_UPSB.OperDisable	0	BOOL
UPS On Battery Alarm		
JA_UPSB.OperEnable	0	BOOL
UPS On Battery Alarm		
JA_UPSB.AlarmCountReset	0	BOOL
UPS On Battery Alarm Set to 1 to reset alarm count		
JA_UPSB.InAlarm	0	BOOL
UPS On Battery Alarm		
JA_UPSB.Disabled	0	BOOL
UPS On Battery Alarm		
JA_UPSB.MinDurationPRE	5000	DINT
UPS On Battery Alarm		
JA_UPSB.MinDurationACC	5000	DINT
UPS On Battery Alarm		
JA_UPSB.AlarmCount	3	DINT
UPS On Battery Alarm		
JA_UPSB.InAlarmDate	1011998	DINT
UPS On Battery Alarm		
JA_UPSB.InAlarmTime	3223	DINT
UPS On Battery Alarm		
JA_UPSB.RefToNormalDate	10272022	DINT
UPS On Battery Alarm		
JA_UPSB.RefToNormalTime	120926	DINT
UPS On Battery Alarm		
JA_UPSB.AlarmCountResetDate	0	DINT
UPS On Battery Alarm		
JA_UPSB.AlarmCountResetTime	0	DINT
UPS On Battery Alarm		

JAHH1101 ALRM PLC_SH

Solids Holding Tank 1 Control Valve Alarm High High Torque End		
Constant	No	
External Access:	Read/Write	
<i>JAHH1101 - MainProgram/L1101_SHT1_ControlValve - *8(ALRM)</i>		
JAHH1101.EnableIn	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End Enable Input - System Defined Parameter		
JAHH1101.EnableOut	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End Enable Output - System Defined Parameter		
JAHH1101.Latched	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.OperReset	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
<i>JAHH1101.OperReset - MainProgram/L1101_SHT1_ControlValve - *9(OTL)</i>		
JAHH1101.ProgReset	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.OperDisable	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.OperEnable	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.AlarmCountReset	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End Set to 1 to reset alarm count		

JAHH1101 (Continued)

JAHH1101.InAlarm	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
<i>JAHH1101.InAlarm - MainProgram/L1101_SHT1_ControlValve - 10(XIO)</i>		
JAHH1101.Disabled	0	BOOL
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.MinDurationPRE	5000	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.MinDurationACC	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.AlarmCount	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.InAlarmDate	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.InAlarmTime	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.RetToNormalDate	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.RetToNormalTime	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.AlarmCountResetDate	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		
JAHH1101.AlarmCountResetTime	0	DINT
Solids Holding Tank 1 Control Valve Alarm High High Torque End		

JAHH1201 ALRM PLC_SH

Solids Holding Tank 2 Control Valve Alarm High High Torque End		
Constant	No	
External Access:	Read/Write	
<i>JAHH1201 - MainProgram/L1201_SHT2_ControlValve - *8(ALRM)</i>		
JAHH1201.EnableIn	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End Enable Input - System Defined Parameter		
JAHH1201.EnableOut	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End Enable Output - System Defined Parameter		
JAHH1201.Latched	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.OperReset	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
<i>JAHH1201.OperReset - MainProgram/L1201_SHT2_ControlValve - *9(OTL)</i>		
JAHH1201.ProgReset	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.OperDisable	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.OperEnable	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.AlarmCountReset	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End Set to 1 to reset alarm count		
JAHH1201.InAlarm	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
<i>JAHH1201.InAlarm - MainProgram/L1201_SHT2_ControlValve - 10(XIO)</i>		
JAHH1201.Disabled	0	BOOL
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.MinDurationPRE	5000	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.MinDurationACC	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.AlarmCount	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.InAlarmDate	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.InAlarmTime	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.RetToNormalDate	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		

JAHH1201 (Continued)		
JAHH1201.RetToNormalTime	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.AlarmCountResetDate	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH1201.AlarmCountResetTime	0	DINT
Solids Holding Tank 2 Control Valve Alarm High High Torque End		
JAHH2101		ALRM
Press 1 Sludge Valve Alarm High High Torque End		PLC_SH
Constant	No	
External Access:	Read/Write	
<i>JAHH2101 - MainProgram/L2101_Press1_SludgeValve - *8(ALRM)</i>		
JAHH2101.EnableIn	0	BOOL
Press 1 Sludge Valve Alarm High High Torque End Enable Input - System Defined Parameter		
JAHH2101.EnableOut	0	BOOL
Press 1 Sludge Valve Alarm High High Torque End Enable Output - System Defined Parameter		
JAHH2101.Latched	0	BOOL
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.OperReset	0	BOOL
Press 1 Sludge Valve Alarm High High Torque End		
<i>JAHH2101.OperReset - MainProgram/L2101_Press1_SludgeValve - *9(OTL)</i>		
JAHH2101.ProgReset	0	BOOL
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.OperDisable	0	BOOL
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.OperEnable	0	BOOL
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.AlarmCountReset	0	BOOL
Press 1 Sludge Valve Alarm High High Torque End Set to 1 to reset alarm count		
JAHH2101.InAlarm	0	BOOL
Press 1 Sludge Valve Alarm High High Torque End		
<i>JAHH2101.InAlarm - MainProgram/L2101_Press1_SludgeValve - 10(XIO)</i>		
JAHH2101.Disabled	0	BOOL
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.MinDurationPRE	5000	DINT
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.MinDurationACC	0	DINT
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.AlarmCount	0	DINT
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.InAlarmDate	0	DINT
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.InAlarmTime	0	DINT
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.RetToNormalDate	0	DINT
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.RetToNormalTime	0	DINT
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.AlarmCountResetDate	0	DINT
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2101.AlarmCountResetTime	0	DINT
Press 1 Sludge Valve Alarm High High Torque End		
JAHH2201		ALRM
Press 2 Sludge Valve Alarm High High Torque End		PLC_SH
Constant	No	
External Access:	Read/Write	
<i>JAHH2201 - MainProgram/L2201_Press2_SludgeValve - *8(ALRM)</i>		
JAHH2201.EnableIn	0	BOOL
Press 2 Sludge Valve Alarm High High Torque End Enable Input - System Defined Parameter		
JAHH2201.EnableOut	0	BOOL
Press 2 Sludge Valve Alarm High High Torque End Enable Output - System Defined Parameter		
JAHH2201.Latched	0	BOOL

JAHH2201 (Continued)			
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.OperReset	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
<i>JAHH2201.OperReset - MainProgram/L2201_Press2_SludgeValve - *9(OTL)</i>			
JAHH2201.ProgReset	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.OperDisable	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.OperEnable	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCountReset	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End Set to 1 to reset alarm count			
JAHH2201.InAlarm	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
<i>JAHH2201.InAlarm - MainProgram/L2201_Press2_SludgeValve - 10(XIO)</i>			
JAHH2201.Disabled	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.MinDurationPRE	5000	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.MinDurationACC	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCount	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.InAlarmDate	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.InAlarmTime	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.RetToNormalDate	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.RetToNormalTime	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCountResetDate	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCountResetTime	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JS_SH	0	BOOL	PLC_SH
SPD Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_SH - MainProgram/L0000_Power - *1(OTE), 7(XIC)</i>			
JS_SH_A	0	BOOL	PLC_SH
DC Power Supply A Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_SH_A - MainProgram/L0000_Power - *2(OTE), 8(XIC)</i>			
JS_SH_B	0	BOOL	PLC_SH
DC Power Supply B Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_SH_B - MainProgram/L0000_Power - *3(OTE), 9(XIC)</i>			
JS_UPSA	0	BOOL	PLC_SH
UPS Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_UPSA - MainProgram/L0000_Power - *4(OTE), 10(XIC)</i>			
JS_UPSB	0	BOOL	PLC_SH
UPS On Battery			
Constant	No		

JS_UPSB (Continued)			
External Access:	Read/Write		
<i>JS_UPSB - MainProgram/L0000_Power - *5(OTE), 11(XIC)</i>			
JSHH1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH1101 - MainProgram/L1101_SHT1_ControlValve - *3(OTE), 8(XIC)</i>			
JSHH1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH1201 - MainProgram/L1201_SHT2_ControlValve - *3(OTE), 8(XIC)</i>			
JSHH2101	0	BOOL	PLC_SH
Press 1 Sludge Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH2101 - MainProgram/L2101_Press1_SludgeValve - *3(OTE), 8(XIC)</i>			
JSHH2201	0	BOOL	PLC_SH
Press 2 Sludge Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH2201 - MainProgram/L2201_Press2_SludgeValve - *3(OTE), 8(XIC)</i>			
KA_PRESS1		ALRM	PLC_SH
PLC-PRESS1 Comm Fault			
Constant	No		
External Access:	Read/Write		
<i>KA_PRESS1 - MainProgram/Communications - *12(ALRM)</i>			
KA_PRESS1.EnableIn	1	BOOL	
PLC-PRESS1 Comm Fault Enable Input - System Defined Parameter			
KA_PRESS1.EnableOut	1	BOOL	
PLC-PRESS1 Comm Fault Enable Output - System Defined Parameter			
KA_PRESS1.Latched	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperReset	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.ProgReset	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperDisable	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperEnable	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.AlarmCountReset	0	BOOL	
PLC-PRESS1 Comm Fault Set to 1 to reset alarm count			
KA_PRESS1.InAlarm	0	BOOL	
PLC-PRESS1 Comm Fault			
<i>KA_PRESS1.InAlarm - MainProgram/L1100_PressControl - 3(XIC)</i>			
KA_PRESS1.Disabled	1	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.MinDurationPRE	60000	DINT	
PLC-PRESS1 Comm Fault			
KA_PRESS1.MinDurationACC	60000	DINT	
PLC-PRESS1 Comm Fault			
KA_PRESS1.AlarmCount	4	DINT	
PLC-PRESS1 Comm Fault			
KA_PRESS1.InAlarmDate	10272022	DINT	
PLC-PRESS1 Comm Fault			
KA_PRESS1.InAlarmTime	121031	DINT	
PLC-PRESS1 Comm Fault			

KA_PRESS1 (Continued)		
KA_PRESS1.RetToNormalDate	10312022	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.RetToNormalTime	112117	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.AlarmCountResetDate	0	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.AlarmCountResetTime	0	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS2		ALRM
PLC-PRESS2 Comm Fault		
Constant	No	
External Access:	Read/Write	
<i>KA_PRESS2 - MainProgram/Communications - *27(ALRM)</i>		
KA_PRESS2.EnableIn	1	BOOL
PLC-PRESS2 Comm Fault Enable Input - System Defined Parameter		
KA_PRESS2.EnableOut	1	BOOL
PLC-PRESS2 Comm Fault Enable Output - System Defined Parameter		
KA_PRESS2.Latched	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperReset	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.ProgReset	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperDisable	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperEnable	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCountReset	0	BOOL
PLC-PRESS2 Comm Fault Set to 1 to reset alarm count		
KA_PRESS2.InAlarm	0	BOOL
PLC-PRESS2 Comm Fault		
<i>KA_PRESS2.InAlarm - MainProgram/L1100_PressControl - 4(XIC)</i>		
KA_PRESS2.Disabled	1	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.MinDurationPRE	60000	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.MinDurationACC	60000	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCount	4	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.InAlarmDate	10272022	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.InAlarmTime	121031	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.RetToNormalDate	10312022	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.RetToNormalTime	112123	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCountResetDate	0	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCountResetTime	0	DINT
PLC-PRESS2 Comm Fault		
KA_SSPS		ALRM
Comm Fail with Secondary Sludge PLC		
Constant	No	
External Access:	Read/Write	
<i>KA_SSPS - MainProgram/Communications - *39(ALRM)</i>		

KA_SSPS (Continued)

KA_SSPS.EnableIn	1	BOOL
Comm Fail with Secondary Sludge PLC Enable Input - System Defined Parameter		
KA_SSPS.EnableOut	1	BOOL
Comm Fail with Secondary Sludge PLC Enable Output - System Defined Parameter		
KA_SSPS.Latched	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.OperReset	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.ProgReset	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.OperDisable	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.OperEnable	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.AlarmCountReset	0	BOOL
Comm Fail with Secondary Sludge PLC Set to 1 to reset alarm count		
KA_SSPS.InAlarm	0	BOOL
Comm Fail with Secondary Sludge PLC		
<i>KA_SSPS.InAlarm - MainProgram/L1100_PressControl - 2(XIC)</i>		
KA_SSPS.Disabled	0	BOOL
Comm Fail with Secondary Sludge PLC		
KA_SSPS.MinDurationPRE	30000	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.MinDurationACC	727	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.AlarmCount	2	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.InAlarmDate	10272022	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.InAlarmTime	121452	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.RefToNormalDate	10272022	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.RefToNormalTime	141228	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.AlarmCountResetDate	0	DINT
Comm Fail with Secondary Sludge PLC		
KA_SSPS.AlarmCountResetTime	0	DINT
Comm Fail with Secondary Sludge PLC		

KAP1104 ALRM PLC_SH

Sludge Feed Pump 1 Fail to Stop		
Constant	No	
External Access:	Read/Write	
<i>KAP1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *9(ALRM)</i>		
KAP1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Fail to Stop Enable Input - System Defined Parameter		
KAP1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Fail to Stop Enable Output - System Defined Parameter		
KAP1104.Latched	1	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.OperReset	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
<i>KAP1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
KAP1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Fail to Stop Set to 1 to reset alarm count		
KAP1104.InAlarm	0	BOOL

KAP1104 (Continued)		
Sludge Feed Pump 1 Fail to Stop		
<i>KAP1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
KAP1104.Disabled	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.MinDurationPRE	30000	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1204		ALRM PLC_SH
Sludge Feed Pump 2 Fail to Stop		
Constant	No	
External Access:	Read/Write	
<i>KAP1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *9(ALRM)</i>		
KAP1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Fail to Stop Enable Input - System Defined Parameter		
KAP1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Fail to Stop Enable Output - System Defined Parameter		
KAP1204.Latched	1	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.OperReset	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
<i>KAP1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
KAP1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Fail to Stop Set to 1 to reset alarm count		
KAP1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
<i>KAP1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
KAP1204.Disabled	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.MinDurationPRE	30000	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.RetToNormalTime	0	DINT

KAP1204 (Continued)

Sludge Feed Pump 2 Fail to Stop
KAP1204.AlarmCountResetDate 0 DINT
 Sludge Feed Pump 2 Fail to Stop
KAP1204.AlarmCountResetTime 0 DINT
 Sludge Feed Pump 2 Fail to Stop

KAP2106 ALRM PLC_SH

Screw Press Conveyor 1 Fail to Stop
 Constant No
 External Access: Read/Write
*KAP2106 - MainProgram/L2106_ScrewPressConveyor1 - *6(ALRM)*
KAP2106.EnableIn 0 BOOL
 Screw Press Conveyor 1 Fail to Stop Enable Input - System Defined Parameter
KAP2106.EnableOut 0 BOOL
 Screw Press Conveyor 1 Fail to Stop Enable Output - System Defined Parameter
KAP2106.Latched 1 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.OperReset 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
*KAP2106.OperReset - MainProgram/L2106_ScrewPressConveyor1 - *8(OTL)*
KAP2106.ProgReset 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.OperDisable 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.OperEnable 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.AlarmCountReset 0 BOOL
 Screw Press Conveyor 1 Fail to Stop Set to 1 to reset alarm count
KAP2106.InAlarm 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.InAlarm - MainProgram/L2106_ScrewPressConveyor1 - 9(XIO)
KAP2106.Disabled 0 BOOL
 Screw Press Conveyor 1 Fail to Stop
KAP2106.MinDurationPRE 30000 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.MinDurationACC 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.AlarmCount 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.InAlarmDate 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.InAlarmTime 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.RetToNormalDate 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.RetToNormalTime 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.AlarmCountResetDate 0 DINT
 Screw Press Conveyor 1 Fail to Stop
KAP2106.AlarmCountResetTime 0 DINT
 Screw Press Conveyor 1 Fail to Stop

KAP2206 ALRM PLC_SH

Screw Press Conveyor 2 Fail to Stop
 Constant No
 External Access: Read/Write
*KAP2206 - MainProgram/L2206_ScrewPressConveyor2 - *6(ALRM)*
KAP2206.EnableIn 0 BOOL
 Screw Press Conveyor 2 Fail to Stop Enable Input - System Defined Parameter
KAP2206.EnableOut 0 BOOL
 Screw Press Conveyor 2 Fail to Stop Enable Output - System Defined Parameter
KAP2206.Latched 1 BOOL
 Screw Press Conveyor 2 Fail to Stop

KAP2206 (Continued)

KAP2206.OperReset	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
<i>KAP2206.OperReset - MainProgram/L2206_ScrewPressConveyor2 - *8(OTL)</i>		
KAP2206.ProgReset	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.OperDisable	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.OperEnable	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCountReset	0	BOOL
Screw Press Conveyor 2 Fail to Stop Set to 1 to reset alarm count		
KAP2206.InAlarm	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
<i>KAP2206.InAlarm - MainProgram/L2206_ScrewPressConveyor2 - 9(XIO)</i>		
KAP2206.Disabled	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.MinDurationPRE	30000	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.MinDurationACC	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCount	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.InAlarmDate	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.InAlarmTime	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.RetToNormalDate	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.RetToNormalTime	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCountResetDate	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCountResetTime	0	DINT
Screw Press Conveyor 2 Fail to Stop		

KAP3101 ALRM PLC_SH

Aeration Blower 1 Fail to Stop		
Constant	No	
External Access:	Read/Write	
<i>KAP3101 - MainProgram/L3101_AerationBlower1_VFD - *7(ALRM)</i>		
KAP3101.EnableIn	0	BOOL
Aeration Blower 1 Fail to Stop Enable Input - System Defined Parameter		
KAP3101.EnableOut	0	BOOL
Aeration Blower 1 Fail to Stop Enable Output - System Defined Parameter		
KAP3101.Latched	1	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.OperReset	0	BOOL
Aeration Blower 1 Fail to Stop		
<i>KAP3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
KAP3101.ProgReset	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.OperDisable	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.OperEnable	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Fail to Stop Set to 1 to reset alarm count		
KAP3101.InAlarm	0	BOOL
Aeration Blower 1 Fail to Stop		
<i>KAP3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
KAP3101.Disabled	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.MinDurationPRE	30000	DINT

KAP3101 (Continued)

Aeration Blower 1 Fail to Stop		
KAP3101.MinDurationACC	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCount	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.InAlarmDate	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.InAlarmTime	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.RefToNormalDate	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.RefToNormalTime	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Fail to Stop		

KAP3201 ALRM PLC_SH

Aeration Blower 2 Fail to Stop		
Constant	No	
External Access:	Read/Write	
<i>KAP3201 - MainProgram/L3201_AerationBlower2_VFD - *7(ALRM)</i>		
KAP3201.EnableIn	0	BOOL
Aeration Blower 2 Fail to Stop Enable Input - System Defined Parameter		
KAP3201.EnableOut	0	BOOL
Aeration Blower 2 Fail to Stop Enable Output - System Defined Parameter		
KAP3201.Latched	1	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.OperReset	0	BOOL
Aeration Blower 2 Fail to Stop		
<i>KAP3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
KAP3201.ProgReset	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.OperDisable	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.OperEnable	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Fail to Stop Set to 1 to reset alarm count		
KAP3201.InAlarm	0	BOOL
Aeration Blower 2 Fail to Stop		
<i>KAP3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
KAP3201.Disabled	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.MinDurationPRE	30000	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.MinDurationACC	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCount	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.InAlarmDate	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.InAlarmTime	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.RefToNormalDate	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.RefToNormalTime	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCountResetDate	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCountResetTime	0	DINT
Aeration Blower 2 Fail to Stop		

Variable Name	Value	Unit	Alarm Status
KAS1104			ALRM
Sludge Feed Pump 1 Fail to Start			
Constant	No		
External Access:	Read/Write		
<i>KAS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *8(ALRM)</i>			
KAS1104.EnableIn	0		BOOL
Sludge Feed Pump 1 Fail to Start Enable Input - System Defined Parameter			
KAS1104.EnableOut	0		BOOL
Sludge Feed Pump 1 Fail to Start Enable Output - System Defined Parameter			
KAS1104.Latched	1		BOOL
Sludge Feed Pump 1 Fail to Start			
KAS1104.OperReset	0		BOOL
Sludge Feed Pump 1 Fail to Start			
<i>KAS1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>			
KAS1104.ProgReset	0		BOOL
Sludge Feed Pump 1 Fail to Start			
KAS1104.OperDisable	0		BOOL
Sludge Feed Pump 1 Fail to Start			
KAS1104.OperEnable	0		BOOL
Sludge Feed Pump 1 Fail to Start			
KAS1104.AlarmCountReset	0		BOOL
Sludge Feed Pump 1 Fail to Start Set to 1 to reset alarm count			
KAS1104.InAlarm	0		BOOL
Sludge Feed Pump 1 Fail to Start			
<i>KAS1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>			
KAS1104.Disabled	0		BOOL
Sludge Feed Pump 1 Fail to Start			
KAS1104.MinDurationPRE	5000		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.MinDurationACC	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.AlarmCount	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.InAlarmDate	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.InAlarmTime	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.RefToNormalDate	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.RefToNormalTime	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.AlarmCountResetDate	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1104.AlarmCountResetTime	0		DINT
Sludge Feed Pump 1 Fail to Start			
KAS1204			ALRM
Sludge Feed Pump 2 Fail to Start			
Constant	No		
External Access:	Read/Write		
<i>KAS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *8(ALRM)</i>			
KAS1204.EnableIn	0		BOOL
Sludge Feed Pump 2 Fail to Start Enable Input - System Defined Parameter			
KAS1204.EnableOut	0		BOOL
Sludge Feed Pump 2 Fail to Start Enable Output - System Defined Parameter			
KAS1204.Latched	1		BOOL
Sludge Feed Pump 2 Fail to Start			
KAS1204.OperReset	0		BOOL
Sludge Feed Pump 2 Fail to Start			
<i>KAS1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>			
KAS1204.ProgReset	0		BOOL
Sludge Feed Pump 2 Fail to Start			
KAS1204.OperDisable	0		BOOL
Sludge Feed Pump 2 Fail to Start			

KAS1204 (Continued)

KAS1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Fail to Start Set to 1 to reset alarm count		
KAS1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Fail to Start		
<i>KAS1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
KAS1204.Disabled	0	BOOL
Sludge Feed Pump 2 Fail to Start		
KAS1204.MinDurationPRE	5000	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Fail to Start		

KAS2106 ALRM PLC_SH

Screw Press Conveyor 1 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS2106 - MainProgram/L2106_ScrewPressConveyor1 - *5(ALRM)</i>		
KAS2106.EnableIn	0	BOOL
Screw Press Conveyor 1 Fail to Start Enable Input - System Defined Parameter		
KAS2106.EnableOut	0	BOOL
Screw Press Conveyor 1 Fail to Start Enable Output - System Defined Parameter		
KAS2106.Latched	1	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.OperReset	0	BOOL
Screw Press Conveyor 1 Fail to Start		
<i>KAS2106.OperReset - MainProgram/L2106_ScrewPressConveyor1 - *8(OTL)</i>		
KAS2106.ProgReset	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.OperDisable	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.OperEnable	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.AlarmCountReset	0	BOOL
Screw Press Conveyor 1 Fail to Start Set to 1 to reset alarm count		
KAS2106.InAlarm	0	BOOL
Screw Press Conveyor 1 Fail to Start		
<i>KAS2106.InAlarm - MainProgram/L2106_ScrewPressConveyor1 - 9(XIO)</i>		
KAS2106.Disabled	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.MinDurationPRE	5000	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.MinDurationACC	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.AlarmCount	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.InAlarmDate	0	DINT
Screw Press Conveyor 1 Fail to Start		

KAS2106 (Continued)		
KAS2106.InAlarmTime	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.RetToNormalDate	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.RetToNormalTime	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.AlarmCountResetDate	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2106.AlarmCountResetTime	0	DINT
Screw Press Conveyor 1 Fail to Start		
KAS2206		ALRM PLC_SH
Screw Press Conveyor 2 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS2206 - MainProgram/L2206_ScrewPressConveyor2 - *5(ALRM)</i>		
KAS2206.EnableIn	0	BOOL
Screw Press Conveyor 2 Fail to Start Enable Input - System Defined Parameter		
KAS2206.EnableOut	0	BOOL
Screw Press Conveyor 2 Fail to Start Enable Output - System Defined Parameter		
KAS2206.Latched	1	BOOL
Screw Press Conveyor 2 Fail to Start		
KAS2206.OperReset	0	BOOL
Screw Press Conveyor 2 Fail to Start		
<i>KAS2206.OperReset - MainProgram/L2206_ScrewPressConveyor2 - *8(OTL)</i>		
KAS2206.ProgReset	0	BOOL
Screw Press Conveyor 2 Fail to Start		
KAS2206.OperDisable	0	BOOL
Screw Press Conveyor 2 Fail to Start		
KAS2206.OperEnable	0	BOOL
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCountReset	0	BOOL
Screw Press Conveyor 2 Fail to Start Set to 1 to reset alarm count		
KAS2206.InAlarm	0	BOOL
Screw Press Conveyor 2 Fail to Start		
<i>KAS2206.InAlarm - MainProgram/L2206_ScrewPressConveyor2 - 9(XIO)</i>		
KAS2206.Disabled	0	BOOL
Screw Press Conveyor 2 Fail to Start		
KAS2206.MinDurationPRE	5000	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.MinDurationACC	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCount	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.InAlarmDate	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.InAlarmTime	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.RetToNormalDate	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.RetToNormalTime	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCountResetDate	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCountResetTime	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS3101		ALRM PLC_SH
Aeration Blower 1 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS3101 - MainProgram/L3101_AerationBlower1_VFD - *6(ALRM)</i>		
KAS3101.EnableIn	0	BOOL

KAS3101 (Continued)

Aeration Blower 1 Fail to Start Enable Input - System Defined Parameter		
KAS3101.EnableOut	0	BOOL
Aeration Blower 1 Fail to Start Enable Output - System Defined Parameter		
KAS3101.Latched	1	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.OperReset	0	BOOL
Aeration Blower 1 Fail to Start		
<i>KAS3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
KAS3101.ProgReset	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.OperDisable	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.OperEnable	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Fail to Start Set to 1 to reset alarm count		
KAS3101.InAlarm	0	BOOL
Aeration Blower 1 Fail to Start		
<i>KAS3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
KAS3101.Disabled	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.MinDurationPRE	5000	DINT
Aeration Blower 1 Fail to Start		
KAS3101.MinDurationACC	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCount	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.InAlarmDate	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.InAlarmTime	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.RefToNormalDate	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.RefToNormalTime	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Fail to Start		

KAS3201 ALRM PLC_SH

Aeration Blower 2 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS3201 - MainProgram/L3201_AerationBlower2_VFD - *6(ALRM)</i>		
KAS3201.EnableIn	0	BOOL
Aeration Blower 2 Fail to Start Enable Input - System Defined Parameter		
KAS3201.EnableOut	0	BOOL
Aeration Blower 2 Fail to Start Enable Output - System Defined Parameter		
KAS3201.Latched	1	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.OperReset	0	BOOL
Aeration Blower 2 Fail to Start		
<i>KAS3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
KAS3201.ProgReset	0	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.OperDisable	0	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.OperEnable	0	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Fail to Start Set to 1 to reset alarm count		
KAS3201.InAlarm	0	BOOL

KAS3201 (Continued)			
Aeration Blower 2 Fail to Start			
<i>KAS3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>			
KAS3201.Disabled	0	BOOL	
Aeration Blower 2 Fail to Start			
KAS3201.MinDurationPRE	30000	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.MinDurationACC	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.AlarmCount	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.InAlarmDate	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.InAlarmTime	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.RetToNormalDate	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.RetToNormalTime	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Fail to Start			
KAS3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Fail to Start			
KC_MSG	3000000	DINT	PLC_SH
Messages Unconnected Time Out (Micro Seconds)			
Constant	No		
External Access:	Read/Write		
<i>KC_MSG - MainProgram/Communications - 13(SSV), 14(SSV), 28(SSV), 29(SSV)</i>			
KC_PLC		DateTime	PLC_SH
Date and Time			
Constant	No		
External Access:	Read/Write		
<i>KC_PLC - MainProgram/MainRoutine - 6(SSV)</i>			
KC_PLC.Year	2022	DINT	
Date and Time Year			
KC_PLC.Month	11	DINT	
Date and Time Month (1 - 12)			
KC_PLC.Day	7	DINT	
Date and Time Day (1 - 31)			
KC_PLC.Hour	9	DINT	
Date and Time Hour (0 - 23)			
KC_PLC.Minute	9	DINT	
Date and Time Minute (0 - 59)			
KC_PLC.Second	27	DINT	
Date and Time Second (0 - 59)			
KC_PLC.MicroSecond	0	DINT	
Date and Time Microsecond (0 - 999,999)			
KI_PLC		DateTime	PLC_SH
Date and Time			
Constant	No		
External Access:	Read/Write		
KI_PLC.Year	2022	DINT	
Date and Time Year			
<i>KI_PLC.Year - MainProgram/MainRoutine - *5(GSV)</i>			
KI_PLC.Month	11	DINT	
Date and Time Month (1 - 12)			
KI_PLC.Day	7	DINT	
Date and Time Day (1 - 31)			
KI_PLC.Hour	10	DINT	
Date and Time Hour (0 - 23)			
<i>KI_PLC.Hour - MainProgram/MainRoutine - 5(CPT)</i>			

KI_PLC (Continued)

KI_PLC.Minute	41	DINT
Date and Time Minute (0 - 59)		
<i>KI_PLC.Minute - MainProgram/MainRoutine - 5(CPT)</i>		
KI_PLC.Second	58	DINT
Date and Time Second (0 - 59)		
KI_PLC.MicroSecond	324278	DINT
Date and Time Microsecond (0 - 999,999)		

KQI1104 RH PLC_SH

Sludge Feed Pump 1		
Constant	No	
External Access:	Read/Write	
<i>KQI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *24(RH)</i>		
KQI1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Enable Input - System Defined Parameter		
KQI1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Enable Output - System Defined Parameter		
KQI1104.TotalHours	0	DINT
Sludge Feed Pump 1 Total ETM		
<i>KQI1104.TotalHours - MainProgram/L1104_SludgeFeedPump1_VFD - 27(MOV)</i>		
KQI1104.TodaysHours	0	DINT
Sludge Feed Pump 1 Today's ETM		
KQI1104.YesterdaysHours	0	DINT
Sludge Feed Pump 1 Yesterday's ETM		
KQI1104.LastStartDate	0	DINT
Sludge Feed Pump 1 Last Start Date		
KQI1104.LastStartTime	0	DINT
Sludge Feed Pump 1 Last Start Time		
KQI1104.LastStopDate	8112022	DINT
Sludge Feed Pump 1 Last Stop Date		
KQI1104.LastStopTime	104631	DINT
Sludge Feed Pump 1 Last Stop Time		
KQI1104.TotalStarts	0	DINT
Sludge Feed Pump 1 Total Starts		
KQI1104.TodaysStarts	0	DINT
Sludge Feed Pump 1 Today's Starts		
KQI1104.YesterdaysStarts	0	DINT
Sludge Feed Pump 1 Yesterday's Starts		
KQI1104.StartsPerHour	0	DINT
Sludge Feed Pump 1 Calculated Number of Starts per Hour		
KQI1104.HourSP	0	DINT
Sludge Feed Pump 1 Hour to Rollover (0 - 23)		
KQI1104.MinuteSP	0	DINT
Sludge Feed Pump 1 Minute to Rollover (0 - 59)		
KQI1104.HMIReset	0	BOOL
Sludge Feed Pump 1		
KQI1104.Maint1Hours	0	DINT
Sludge Feed Pump 1 Maintenance 1 Hours		
KQI1104.Maint2Hours	0	DINT
Sludge Feed Pump 1 Maintenance 2 Hours		
KQI1104.Maint3Hours	0	DINT
Sludge Feed Pump 1 Maintenance 3 Hours		
KQI1104.Maint1Done	0	BOOL
Sludge Feed Pump 1 Maintenance 1 Due		
KQI1104.Maint2Done	0	BOOL
Sludge Feed Pump 1 Maintenance 2 Due		
KQI1104.Maint3Done	0	BOOL
Sludge Feed Pump 1 Maintenance 3 Due		
KQI1104.Maint1SP	50000	DINT
Sludge Feed Pump 1 Maintenance 1 Hours SP		
KQI1104.Maint2SP	50000	DINT
Sludge Feed Pump 1 Maintenance 2 Hours SP		
KQI1104.Maint3SP	50000	DINT

KQI1104 (Continued)

Sludge Feed Pump 1 Maintenance 3 Hours SP

KQI1204 RH PLC_SH

Sludge Pump 2 Run Hours

Constant No

External Access: Read/Write

*KQI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *24(RH)*

KQI1204.EnableIn 0 BOOL

Sludge Pump 2 Run Hours Enable Input - System Defined Parameter

KQI1204.EnableOut 0 BOOL

Sludge Pump 2 Run Hours Enable Output - System Defined Parameter

KQI1204.TotalHours 0 DINT

Sludge Pump 2 Run Hours Total ETM

KQI1204.TotalHours - MainProgram/L1104_SludgeFeedPump1_VFD - 27(MOV)

KQI1204.TodaysHours 0 DINT

Sludge Pump 2 Run Hours Today's ETM

KQI1204.YesterdaysHours 0 DINT

Sludge Pump 2 Run Hours Yesterday's ETM

KQI1204.LastStartDate 0 DINT

Sludge Pump 2 Run Hours Last Start Date

KQI1204.LastStartTime 0 DINT

Sludge Pump 2 Run Hours Last Start Time

KQI1204.LastStopDate 8112022 DINT

Sludge Pump 2 Run Hours Last Stop Date

KQI1204.LastStopTime 104631 DINT

Sludge Pump 2 Run Hours Last Stop Time

KQI1204.TotalStarts 0 DINT

Sludge Pump 2 Run Hours Total Starts

KQI1204.TodaysStarts 0 DINT

Sludge Pump 2 Run Hours Today's Starts

KQI1204.YesterdaysStarts 0 DINT

Sludge Pump 2 Run Hours Yesterday's Starts

KQI1204.StartsPerHour 0 DINT

Sludge Pump 2 Run Hours Calculated Number of Starts per Hour

KQI1204.HourSP 0 DINT

Sludge Pump 2 Run Hours Hour to Rollover (0 - 23)

KQI1204.MinuteSP 0 DINT

Sludge Pump 2 Run Hours Minute to Rollover (0 - 59)

KQI1204.HMIRReset 0 BOOL

Sludge Pump 2 Run Hours

KQI1204.Maint1Hours 0 DINT

Sludge Pump 2 Run Hours Maintenance 1 Hours

KQI1204.Maint2Hours 0 DINT

Sludge Pump 2 Run Hours Maintenance 2 Hours

KQI1204.Maint3Hours 0 DINT

Sludge Pump 2 Run Hours Maintenance 3 Hours

KQI1204.Maint1Done 0 BOOL

Sludge Pump 2 Run Hours Maintenance 1 Due

KQI1204.Maint2Done 0 BOOL

Sludge Pump 2 Run Hours Maintenance 2 Due

KQI1204.Maint3Done 0 BOOL

Sludge Pump 2 Run Hours Maintenance 3 Due

KQI1204.Maint1SP 50000 DINT

Sludge Pump 2 Run Hours Maintenance 1 Hours SP

KQI1204.Maint2SP 50000 DINT

Sludge Pump 2 Run Hours Maintenance 2 Hours SP

KQI1204.Maint3SP 50000 DINT

Sludge Pump 2 Run Hours Maintenance 3 Hours SP

KQI2106 RH PLC_SH

Screw Press Conveyor 1

Constant No

External Access: Read/Write

KQI2106 (Continued)

*KQI2106 - MainProgram/L2106_ScrewPressConveyor1 - *14(RH)*

KQI2106.EnableIn	0	BOOL
Screw Press Conveyor 1 Enable Input - System Defined Parameter		
KQI2106.EnableOut	0	BOOL
Screw Press Conveyor 1 Enable Output - System Defined Parameter		
KQI2106.TotalHours	0	DINT
Screw Press Conveyor 1 Total ETM		
KQI2106.TodaysHours	0	DINT
Screw Press Conveyor 1 Today's ETM		
KQI2106.YesterdaysHours	0	DINT
Screw Press Conveyor 1 Yesterday's ETM		
KQI2106.LastStartDate	0	DINT
Screw Press Conveyor 1 Last Start Date		
KQI2106.LastStartTime	0	DINT
Screw Press Conveyor 1 Last Start Time		
KQI2106.LastStopDate	8112022	DINT
Screw Press Conveyor 1 Last Stop Date		
KQI2106.LastStopTime	104631	DINT
Screw Press Conveyor 1 Last Stop Time		
KQI2106.TotalStarts	0	DINT
Screw Press Conveyor 1 Total Starts		
KQI2106.TodaysStarts	0	DINT
Screw Press Conveyor 1 Today's Starts		
KQI2106.YesterdaysStarts	0	DINT
Screw Press Conveyor 1 Yesterday's Starts		
KQI2106.StartsPerHour	0	DINT
Screw Press Conveyor 1 Calculated Number of Starts per Hour		
KQI2106.HourSP	0	DINT
Screw Press Conveyor 1 Hour to Rollover (0 - 23)		
KQI2106.MinuteSP	0	DINT
Screw Press Conveyor 1 Minute to Rollover (0 - 59)		
KQI2106.HMIRreset	0	BOOL
Screw Press Conveyor 1		
KQI2106.Maint1Hours	0	DINT
Screw Press Conveyor 1 Maintenance 1 Hours		
KQI2106.Maint2Hours	0	DINT
Screw Press Conveyor 1 Maintenance 2 Hours		
KQI2106.Maint3Hours	0	DINT
Screw Press Conveyor 1 Maintenance 3 Hours		
KQI2106.Maint1Done	0	BOOL
Screw Press Conveyor 1 Maintenance 1 Due		
KQI2106.Maint2Done	0	BOOL
Screw Press Conveyor 1 Maintenance 2 Due		
KQI2106.Maint3Done	0	BOOL
Screw Press Conveyor 1 Maintenance 3 Due		
KQI2106.Maint1SP	50000	DINT
Screw Press Conveyor 1 Maintenance 1 Hours SP		
KQI2106.Maint2SP	50000	DINT
Screw Press Conveyor 1 Maintenance 2 Hours SP		
KQI2106.Maint3SP	50000	DINT
Screw Press Conveyor 1 Maintenance 3 Hours SP		

KQI2206 RH PLC_SH

Screw Press Conveyor 2

Constant No

External Access: Read/Write

*KQI2206 - MainProgram/L2206_ScrewPressConveyor2 - *14(RH)*

KQI2206.EnableIn	0	BOOL
Screw Press Conveyor 2 Enable Input - System Defined Parameter		
KQI2206.EnableOut	0	BOOL
Screw Press Conveyor 2 Enable Output - System Defined Parameter		
KQI2206.TotalHours	0	DINT
Screw Press Conveyor 2 Total ETM		

KQI2206 (Continued)

KQI2206.TodaysHours	0	DINT
Screw Press Conveyor 2 Today's ETM		
KQI2206.YesterdaysHours	0	DINT
Screw Press Conveyor 2 Yesterday's ETM		
KQI2206.LastStartDate	0	DINT
Screw Press Conveyor 2 Last Start Date		
KQI2206.LastStartTime	0	DINT
Screw Press Conveyor 2 Last Start Time		
KQI2206.LastStopDate	8112022	DINT
Screw Press Conveyor 2 Last Stop Date		
KQI2206.LastStopTime	104631	DINT
Screw Press Conveyor 2 Last Stop Time		
KQI2206.TotalStarts	0	DINT
Screw Press Conveyor 2 Total Starts		
KQI2206.TodaysStarts	0	DINT
Screw Press Conveyor 2 Today's Starts		
KQI2206.YesterdaysStarts	0	DINT
Screw Press Conveyor 2 Yesterday's Starts		
KQI2206.StartsPerHour	0	DINT
Screw Press Conveyor 2 Calculated Number of Starts per Hour		
KQI2206.HourSP	0	DINT
Screw Press Conveyor 2 Hour to Rollover (0 - 23)		
KQI2206.MinuteSP	0	DINT
Screw Press Conveyor 2 Minute to Rollover (0 - 59)		
KQI2206.HMIReset	0	BOOL
Screw Press Conveyor 2		
KQI2206.Maint1Hours	0	DINT
Screw Press Conveyor 2 Maintenance 1 Hours		
KQI2206.Maint2Hours	0	DINT
Screw Press Conveyor 2 Maintenance 2 Hours		
KQI2206.Maint3Hours	0	DINT
Screw Press Conveyor 2 Maintenance 3 Hours		
KQI2206.Maint1Done	0	BOOL
Screw Press Conveyor 2 Maintenance 1 Due		
KQI2206.Maint2Done	0	BOOL
Screw Press Conveyor 2 Maintenance 2 Due		
KQI2206.Maint3Done	0	BOOL
Screw Press Conveyor 2 Maintenance 3 Due		
KQI2206.Maint1SP	50000	DINT
Screw Press Conveyor 2 Maintenance 1 Hours SP		
KQI2206.Maint2SP	50000	DINT
Screw Press Conveyor 2 Maintenance 2 Hours SP		
KQI2206.Maint3SP	50000	DINT
Screw Press Conveyor 2 Maintenance 3 Hours SP		

KQI3101 RH PLC_SH

Aeration Blower 1		
Constant	No	
External Access:	Read/Write	
<i>KQI3101 - MainProgram/L3101_AerationBlower1_VFD - *22(RH)</i>		
KQI3101.EnableIn	0	BOOL
Aeration Blower 1 Enable Input - System Defined Parameter		
KQI3101.EnableOut	0	BOOL
Aeration Blower 1 Enable Output - System Defined Parameter		
KQI3101.TotalHours	0	DINT
Aeration Blower 1 Total ETM		
KQI3101.TodaysHours	0	DINT
Aeration Blower 1 Today's ETM		
KQI3101.YesterdaysHours	0	DINT
Aeration Blower 1 Yesterday's ETM		
KQI3101.LastStartDate	0	DINT
Aeration Blower 1 Last Start Date		
KQI3101.LastStartTime	0	DINT

KQI3101 (Continued)

Aeration Blower 1 Last Start Time		
KQI3101.LastStopDate	8112022	DINT
Aeration Blower 1 Last Stop Date		
KQI3101.LastStopTime	104631	DINT
Aeration Blower 1 Last Stop Time		
KQI3101.TotalStarts	0	DINT
Aeration Blower 1 Total Starts		
KQI3101.TodaysStarts	0	DINT
Aeration Blower 1 Today's Starts		
KQI3101.YesterdaysStarts	0	DINT
Aeration Blower 1 Yesterday's Starts		
KQI3101.StartsPerHour	0	DINT
Aeration Blower 1 Calculated Number of Starts per Hour		
KQI3101.HourSP	0	DINT
Aeration Blower 1 Hour to Rollover (0 - 23)		
KQI3101.MinuteSP	0	DINT
Aeration Blower 1 Minute to Rollover (0 - 59)		
KQI3101.HMIRreset	0	BOOL
Aeration Blower 1		
KQI3101.Maint1Hours	0	DINT
Aeration Blower 1 Maintenance 1 Hours		
KQI3101.Maint2Hours	0	DINT
Aeration Blower 1 Maintenance 2 Hours		
KQI3101.Maint3Hours	0	DINT
Aeration Blower 1 Maintenance 3 Hours		
KQI3101.Maint1Done	0	BOOL
Aeration Blower 1 Maintenance 1 Due		
KQI3101.Maint2Done	0	BOOL
Aeration Blower 1 Maintenance 2 Due		
KQI3101.Maint3Done	0	BOOL
Aeration Blower 1 Maintenance 3 Due		
KQI3101.Maint1SP	50000	DINT
Aeration Blower 1 Maintenance 1 Hours SP		
KQI3101.Maint2SP	50000	DINT
Aeration Blower 1 Maintenance 2 Hours SP		
KQI3101.Maint3SP	50000	DINT
Aeration Blower 1 Maintenance 3 Hours SP		

KQI3201 RH PLC_SH

Aeration Blower 2		
Constant	No	
External Access:	Read/Write	
<i>KQI3201 - MainProgram/L3201_AerationBlower2_VFD - *22(RH)</i>		
KQI3201.EnableIn	0	BOOL
Aeration Blower 2 Enable Input - System Defined Parameter		
KQI3201.EnableOut	0	BOOL
Aeration Blower 2 Enable Output - System Defined Parameter		
KQI3201.TotalHours	0	DINT
Aeration Blower 2 Total ETM		
KQI3201.TodaysHours	0	DINT
Aeration Blower 2 Today's ETM		
KQI3201.YesterdaysHours	0	DINT
Aeration Blower 2 Yesterday's ETM		
KQI3201.LastStartDate	0	DINT
Aeration Blower 2 Last Start Date		
KQI3201.LastStartTime	0	DINT
Aeration Blower 2 Last Start Time		
KQI3201.LastStopDate	8112022	DINT
Aeration Blower 2 Last Stop Date		
KQI3201.LastStopTime	104631	DINT
Aeration Blower 2 Last Stop Time		
KQI3201.TotalStarts	0	DINT
Aeration Blower 2 Total Starts		

KQI3201 (Continued)

KQI3201.TodaysStarts	0	DINT
Aeration Blower 2 Today's Starts		
KQI3201.YesterdaysStarts	0	DINT
Aeration Blower 2 Yesterday's Starts		
KQI3201.StartsPerHour	0	DINT
Aeration Blower 2 Calculated Number of Starts per Hour		
KQI3201.HourSP	0	DINT
Aeration Blower 2 Hour to Rollover (0 - 23)		
KQI3201.MinuteSP	0	DINT
Aeration Blower 2 Minute to Rollover (0 - 59)		
KQI3201.HMIReset	0	BOOL
Aeration Blower 2		
KQI3201.Maint1Hours	0	DINT
Aeration Blower 2 Maintenance 1 Hours		
KQI3201.Maint2Hours	0	DINT
Aeration Blower 2 Maintenance 2 Hours		
KQI3201.Maint3Hours	0	DINT
Aeration Blower 2 Maintenance 3 Hours		
KQI3201.Maint1Done	0	BOOL
Aeration Blower 2 Maintenance 1 Due		
KQI3201.Maint2Done	0	BOOL
Aeration Blower 2 Maintenance 2 Due		
KQI3201.Maint3Done	0	BOOL
Aeration Blower 2 Maintenance 3 Due		
KQI3201.Maint1SP	50000	DINT
Aeration Blower 2 Maintenance 1 Hours SP		
KQI3201.Maint2SP	50000	DINT
Aeration Blower 2 Maintenance 2 Hours SP		
KQI3201.Maint3SP	50000	DINT
Aeration Blower 2 Maintenance 3 Hours SP		

LAH1101 ALRM PLC_SH

Sludge Holding Tank 1 Level Alarm High		
Constant	No	
External Access:	Read/Write	
<i>LAH1101 - MainProgram/L1101_SHT1_Level - *2(ALRM)</i>		
LAH1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Alarm High Enable Input - System Defined Parameter		
LAH1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Alarm High Enable Output - System Defined Parameter		
LAH1101.Latched	1	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
<i>LAH1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAH1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Alarm High Set to 1 to reset alarm count		
LAH1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Alarm High		
LAH1101.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Alarm High		

LAH1101 (Continued)		
LAH1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Alarm High		
LAH1102		ALRM
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
Constant	No	
External Access:	Read/Write	
<i>LAH1102 - MainProgram/L1102_SHT1_BlanketLevel - *2(ALRM)</i>		
LAH1102.EnableIn	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High Enable Input - System Defined Parameter		
LAH1102.EnableOut	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High Enable Output - System Defined Parameter		
LAH1102.Latched	1	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.OperReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
<i>LAH1102.OperReset - MainProgram/L1102_SHT1_BlanketLevel - *4(OTL)</i>		
LAH1102.ProgReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.OperDisable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.OperEnable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High Set to 1 to reset alarm count		
LAH1102.InAlarm	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.Disabled	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.MinDurationACC	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.AlarmCount	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.InAlarmDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.InAlarmTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAH1102.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm High		
LAL1101		ALRM
Sludge Holding Tank 1 Level Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>LAL1101 - MainProgram/L1101_SHT1_Level - *3(ALRM)</i>		

PLC_SH

PLC_SH

LAL1101 (Continued)

LAL1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Input - System Defined Parameter		
LAL1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Output - System Defined Parameter		
LAL1101.Latched	1	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAL1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Set to 1 to reset alarm count		
LAL1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.InAlarm - MainProgram/L1100_PressControl - 0(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>		
LAL1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		

LAL1102 ALRM PLC_SH

Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>LAL1102 - MainProgram/L1102_SHT1_BlanketLevel - *3(ALRM)</i>		
LAL1102.EnableIn	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Enable Input - System Defined Parameter		
LAL1102.EnableOut	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Enable Output - System Defined Parameter		
LAL1102.Latched	1	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.OperReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
<i>LAL1102.OperReset - MainProgram/L1102_SHT1_BlanketLevel - *4(OTL)</i>		
LAL1102.ProgReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.OperDisable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		

LAL1102 (Continued)

LAL1102.OperEnable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Set to 1 to reset alarm count		
LAL1102.InAlarm	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
<i>LAL1102.InAlarm - MainProgram/L1100_PressControl - 0(XIC)</i>		
LAL1102.Disabled	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.MinDurationACC	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCount	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.InAlarmDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.InAlarmTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		

LAT1101		ALRM	PLC_SH
Sludge Holding Tank 1 Level Signal Fail			
Constant	No		
External Access:	Read/Write		
<i>LAT1101 - MainProgram/L1101_SHT1_Level - *1(ALRM)</i>			
LAT1101.EnableIn	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail Enable Input - System Defined Parameter			
LAT1101.EnableOut	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail Enable Output - System Defined Parameter			
LAT1101.Latched	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.OperReset	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail			
<i>LAT1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>			
LAT1101.ProgReset	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.OperDisable	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.OperEnable	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.AlarmCountReset	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail Set to 1 to reset alarm count			
LAT1101.InAlarm	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail			
<i>LAT1101.InAlarm - MainProgram/L1101_SHT1_Level - 2(XIO), 3(XIO)</i>			
<i>LAT1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>			
<i>LAT1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>			
<i>LAT1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>			
<i>LAT1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>			
LAT1101.Disabled	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.MinDurationPRE	5000	DINT	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.MinDurationACC	0	DINT	
Sludge Holding Tank 1 Level Signal Fail			

LAT1101 (Continued)		
LAT1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1102		ALRM
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
Constant	No	
External Access:	Read/Write	
<i>LAT1102 - MainProgram/L1102_SHT1_BlanketLevel - *1(ALRM)</i>		
LAT1102.EnableIn	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail Enable Input - System Defined Parameter		
LAT1102.EnableOut	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail Enable Output - System Defined Parameter		
LAT1102.Latched	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.OperReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
<i>LAT1102.OperReset - MainProgram/L1102_SHT1_BlanketLevel - *4(OTL)</i>		
LAT1102.ProgReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.OperDisable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.OperEnable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail Set to 1 to reset alarm count		
LAT1102.InAlarm	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
<i>LAT1102.InAlarm - MainProgram/L1102_SHT1_BlanketLevel - 2(XIO), 3(XIO)</i>		
LAT1102.Disabled	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.MinDurationPRE	5000	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.MinDurationACC	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.AlarmCount	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.InAlarmDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.InAlarmTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LCH1101	100.0	REAL
Sludge Holding Tank 1 Level Alarm High SP		

PLC_SH

PLC_SH

LCH1101 (Continued)			
Constant	No		
External Access:	Read/Write		
<i>LCH1101 - MainProgram/L1101_SHT1_Level - 2(GRT)</i>			
LCH1102	100.0	REAL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level Alarm High SP			
Constant	No		
External Access:	Read/Write		
<i>LCH1102 - MainProgram/L1102_SHT1_BlanketLevel - 2(GRT)</i>			
LCL1101	0.0	REAL	PLC_SH
Sludge Holding Tank 1 Level Alarm Low SP			
Constant	No		
External Access:	Read/Write		
<i>LCL1101 - MainProgram/L1101_SHT1_Level - 3(LES)</i>			
LCL1102	0.0	REAL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low SP			
Constant	No		
External Access:	Read/Write		
<i>LCL1102 - MainProgram/L1102_SHT1_BlanketLevel - 3(LES)</i>			
LI1101		SCP	PLC_SH
Sludge Holding Tank 1 Level			
Constant	No		
External Access:	Read/Write		
<i>LI1101 - MainProgram/L1101_SHT1_Level - *0(SCP)</i>			
LI1101.EnableIn	1	BOOL	
Sludge Holding Tank 1 Level Enable Input - System Defined Parameter			
LI1101.EnableOut	1	BOOL	
Sludge Holding Tank 1 Level Enable Output - System Defined Parameter			
LI1101.Input	0.0	REAL	
Sludge Holding Tank 1 Level			
<i>LI1101.Input - MainProgram/L1101_SHT1_Level - *0(MOV), 1(LIM)</i>			
LI1101.InputMin	4000.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.InputMax	20000.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.OutputMin	0.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.OutputMax	100.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.Output	0.0	REAL	
Sludge Holding Tank 1 Level			
<i>LI1101.Output - MainProgram/L1101_SHT1_Level - 2(GRT), 3(LES)</i>			
LI1101.ClampMin	1	BOOL	
Sludge Holding Tank 1 Level			
LI1101.ClampMax	1	BOOL	
Sludge Holding Tank 1 Level			
LI1102		SCP	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level			
Constant	No		
External Access:	Read/Write		
<i>LI1102 - MainProgram/L1102_SHT1_BlanketLevel - *0(SCP)</i>			
LI1102.EnableIn	1	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Enable Input - System Defined Parameter			
LI1102.EnableOut	1	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Enable Output - System Defined Parameter			
LI1102.Input	0.0	REAL	
Sludge Holding Tank 1 Sludge Blanket Level			
<i>LI1102.Input - MainProgram/L1102_SHT1_BlanketLevel - *0(MOV), 1(LIM)</i>			
LI1102.InputMin	4000.0	REAL	

LI1102 (Continued)

Sludge Holding Tank 1 Sludge Blanket Level		
LI1102.InputMax	20000.0	REAL
Sludge Holding Tank 1 Sludge Blanket Level		
LI1102.OutputMin	0.0	REAL
Sludge Holding Tank 1 Sludge Blanket Level		
LI1102.OutputMax	100.0	REAL
Sludge Holding Tank 1 Sludge Blanket Level		
LI1102.Output	0.0	REAL
Sludge Holding Tank 1 Sludge Blanket Level		
<i>LI1102.Output - MainProgram/LI1102_SHT1_BlanketLevel - 2(GRT), 3(LES)</i>		
LI1102.ClampMin	1	BOOL
Sludge Holding Tank 1 Sludge Blanket Level		
LI1102.ClampMax	1	BOOL
Sludge Holding Tank 1 Sludge Blanket Level		

LI1104		LL	PLC_SH
Sludge Pumps LL2			
Constant	No		
External Access:	Read/Write		
<i>LI1104 - MainProgram/LI1104_SludgeFeedPump1_VFD - *33(LL)</i>			
LI1104.EnableIn	1	BOOL	
Sludge Pumps LL2 Enable Input - System Defined Parameter			
LI1104.EnableOut	1	BOOL	
Sludge Pumps LL2 Enable Output - System Defined Parameter			
LI1104.AlternationMode	0	DINT	
Sludge Pumps LL2 Alternation Mode			
LI1104.AlternationPRE	2400	DINT	
Sludge Pumps LL2 Alternation Time Preset (0.01 HRS)			
LI1104.AlternationACC	0	DINT	
Sludge Pumps LL2 Alternation Time Accumulated (0.01 HRS)			
LI1104.NextCall	0	DINT	
Sludge Pumps LL2 (1)Increase Call (0)No Call (-1)Decrease Call			
<i>LI1104.NextCall - MainProgram/LI1104_SludgeFeedPump1_VFD - *29(CLR), *30(MOV), *31(MOV), *32(CLR)</i>			
LI1104.NextCallCountDown	0	DINT	
Sludge Pumps LL2 Next Call Count Down (Milliseconds)			
LI1104.NextCalled	0	DINT	
Sludge Pumps LL2 (Equipment Number)			
LI1104.CalledCount	0	DINT	
Sludge Pumps LL2 Called Count			
<i>LI1104.CalledCount - MainProgram/LI1104_SludgeFeedPump1_VFD - *32(CLR), 21(GEQ)</i>			
<i>LI1104.CalledCount - MainProgram/LI204_SludgeFeedPump2_VFD - 21(GEQ)</i>			
LI1104.ReadyCount	0	DINT	
Sludge Pumps LL2 Ready Count			
LI1104.OnCountTotal	0	DINT	
Sludge Pumps LL2 Total On Count			
LI1104.OnCountAuto	0	DINT	
Sludge Pumps LL2 Auto On Count			
LI1104.OnCountMax	1	DINT	
Sludge Pumps LL2 Maximum On Count			
LI1104.Ready1	0	BOOL	
Sludge Pumps LL2 1 Ready			
<i>LI1104.Ready1 - MainProgram/Communications - 19(XIO), 4(XIO)</i>			
<i>LI1104.Ready1 - MainProgram/LI1100_PressControl - 0(XIO), 1(XIO)</i>			
<i>LI1104.Ready1 - MainProgram/LI1104_SludgeFeedPump1_VFD - *25(OTE)</i>			
LI1104.Ready2	0	BOOL	
Sludge Pumps LL2 2 Ready			
<i>LI1104.Ready2 - MainProgram/Communications - 19(XIO), 4(XIO)</i>			
<i>LI1104.Ready2 - MainProgram/LI1100_PressControl - 0(XIO), 1(XIO)</i>			
<i>LI1104.Ready2 - MainProgram/LI1104_SludgeFeedPump1_VFD - *26(OTE)</i>			
LI1104.Ready3	0	BOOL	
Sludge Pumps LL2 3 Ready			
<i>LI1104.Ready3 - MainProgram/LI1104_SludgeFeedPump1_VFD - *28(OTU)</i>			
LI1104.Ready4	0	BOOL	

LL1104 (Continued)

Sludge Pumps LL2 4 Ready		
<i>LL1104.Ready4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready5	0	BOOL
Sludge Pumps LL2 5 Ready		
<i>LL1104.Ready5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready6	0	BOOL
Sludge Pumps LL2 6 Ready		
<i>LL1104.Ready6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.RunHours1	0	DINT
Sludge Pumps LL2 1 Total ETM		
<i>LL1104.RunHours1 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours2	0	DINT
Sludge Pumps LL2 2 Total ETM		
<i>LL1104.RunHours2 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours3	0	DINT
Sludge Pumps LL2 3 Total ETM		
LL1104.RunHours4	0	DINT
Sludge Pumps LL2 4 Total ETM		
LL1104.RunHours5	0	DINT
Sludge Pumps LL2 5 Total ETM		
LL1104.RunHours6	0	DINT
Sludge Pumps LL2 6 Total ETM		
LL1104.Position1SP	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position SP		
LL1104.Position2SP	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position SP		
LL1104.Position3SP	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position SP		
LL1104.Position4SP	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position SP		
LL1104.Position5SP	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position SP		
LL1104.Position6SP	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position SP		
LL1104.Position1	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position		
<i>LL1104.Position1 - MainProgram/L1104_SludgeFeedPump1_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position2	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position		
<i>LL1104.Position2 - MainProgram/L1204_SludgeFeedPump2_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position3	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position		
LL1104.Position4	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position		
LL1104.Position5	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position		
LL1104.Position6	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position		
LL1104.Delay0_1	5000	DINT
Sludge Pumps LL2 Call On 0 to 1 Delay (Milliseconds)		
LL1104.Delay1_2	10000	DINT
Sludge Pumps LL2 Call On 1 to 2 Delay (Milliseconds)		
LL1104.Delay2_3	15000	DINT
Sludge Pumps LL2 Call On 2 to 3 Delay (Milliseconds)		
LL1104.Delay3_4	20000	DINT
Sludge Pumps LL2 Call On 3 to 4 Delay (Milliseconds)		
LL1104.Delay4_5	25000	DINT
Sludge Pumps LL2 Call On 4 to 5 Delay (Milliseconds)		
LL1104.Delay5_6	30000	DINT
Sludge Pumps LL2 Call On 5 to 6 Delay (Milliseconds)		
LL1104.Delay6_5	30000	DINT
Sludge Pumps LL2 Call Off 6 to 5 Delay (Milliseconds)		
LL1104.Delay5_4	25000	DINT

LL1104 (Continued)

Sludge Pumps LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL1104.Delay4_3	20000	DINT
Sludge Pumps LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL1104.Delay3_2	15000	DINT
Sludge Pumps LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL1104.Delay2_1	10000	DINT
Sludge Pumps LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL1104.Delay1_0	5000	DINT
Sludge Pumps LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL1104.MaxOn	0	BOOL
Sludge Pumps LL2 Maximum Number of Devices are Running		
<i>LL1104.MaxOn - MainProgram/L1104_SludgeFeedPump1_VFD - 30(XIO)</i>		
LL1104.On1	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On1 - MainProgram/L1104_SludgeFeedPump1_VFD - *25(O TE)</i>		
LL1104.On2	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On2 - MainProgram/L1104_SludgeFeedPump1_VFD - *26(O TE)</i>		
LL1104.On3	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On3 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On4	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On5	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On6	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.CountUpOS	0	BOOL
Sludge Pumps LL2		
LL1104.CountDownOS	0	BOOL
Sludge Pumps LL2		

LL3101 LL PLC_SH

Aeration Blowers LL2		
Constant	No	
External Access:	Read/Write	
LL3101.EnableIn	1	BOOL
Aeration Blowers LL2 Enable Input - System Defined Parameter		
LL3101.EnableOut	1	BOOL
Aeration Blowers LL2 Enable Output - System Defined Parameter		
LL3101.AlternationMode	0	DINT
Aeration Blowers LL2 Alternation Mode		
LL3101.AlternationPRE	2400	DINT
Aeration Blowers LL2 Alternation Time Preset (0.01 HRS)		
LL3101.AlternationACC	0	DINT
Aeration Blowers LL2 Alternation Time Accumulated (0.01 HRS)		
LL3101.NextCall	0	DINT
Aeration Blowers LL2 (1)Increase Call (0)No Call (-1)Decrease Call		
LL3101.NextCallCountDown	0	DINT
Aeration Blowers LL2 Next Call Count Down (Milliseconds)		
LL3101.NextCalled	0	DINT
Aeration Blowers LL2 (Equipment Number)		
LL3101.CalledCount	0	DINT
Aeration Blowers LL2 Called Count		
<i>LL3101.CalledCount - MainProgram/L3101_AerationBlower1_VFD - 20(GEQ)</i>		
LL3101.ReadyCount	0	DINT
Aeration Blowers LL2 Ready Count		
LL3101.OnCountTotal	0	DINT
Aeration Blowers LL2 Total On Count		
LL3101.OnCountAuto	0	DINT

LL3101 (Continued)

Aeration Blowers LL2 Auto On Count		
LL3101.OnCountMax	1	DINT
Aeration Blowers LL2 Maximum On Count		
LL3101.Ready1	0	BOOL
Aeration Blowers LL2 1 Ready		
LL3101.Ready2	0	BOOL
Aeration Blowers LL2 2 Ready		
LL3101.Ready3	0	BOOL
Aeration Blowers LL2 3 Ready		
LL3101.Ready4	0	BOOL
Aeration Blowers LL2 4 Ready		
LL3101.Ready5	0	BOOL
Aeration Blowers LL2 5 Ready		
LL3101.Ready6	0	BOOL
Aeration Blowers LL2 6 Ready		
LL3101.RunHours1	0	DINT
Aeration Blowers LL2 1 Total ETM		
LL3101.RunHours2	0	DINT
Aeration Blowers LL2 2 Total ETM		
LL3101.RunHours3	0	DINT
Aeration Blowers LL2 3 Total ETM		
LL3101.RunHours4	0	DINT
Aeration Blowers LL2 4 Total ETM		
LL3101.RunHours5	0	DINT
Aeration Blowers LL2 5 Total ETM		
LL3101.RunHours6	0	DINT
Aeration Blowers LL2 6 Total ETM		
LL3101.Position1SP	0	DINT
Aeration Blowers LL2 1 Lead/Lag Position SP		
LL3101.Position2SP	0	DINT
Aeration Blowers LL2 2 Lead/Lag Position SP		
LL3101.Position3SP	0	DINT
Aeration Blowers LL2 3 Lead/Lag Position SP		
LL3101.Position4SP	0	DINT
Aeration Blowers LL2 4 Lead/Lag Position SP		
LL3101.Position5SP	0	DINT
Aeration Blowers LL2 5 Lead/Lag Position SP		
LL3101.Position6SP	0	DINT
Aeration Blowers LL2 6 Lead/Lag Position SP		
LL3101.Position1	0	DINT
Aeration Blowers LL2 1 Lead/Lag Position		
<i>LL3101.Position1 - MainProgram/L3101_AerationBlower1_VFD - 20(GEQ), 20(NEQ)</i>		
LL3101.Position2	0	DINT
Aeration Blowers LL2 2 Lead/Lag Position		
LL3101.Position3	0	DINT
Aeration Blowers LL2 3 Lead/Lag Position		
LL3101.Position4	0	DINT
Aeration Blowers LL2 4 Lead/Lag Position		
LL3101.Position5	0	DINT
Aeration Blowers LL2 5 Lead/Lag Position		
LL3101.Position6	0	DINT
Aeration Blowers LL2 6 Lead/Lag Position		
LL3101.Delay0_1	5000	DINT
Aeration Blowers LL2 Call On 0 to 1 Delay (Milliseconds)		
LL3101.Delay1_2	10000	DINT
Aeration Blowers LL2 Call On 1 to 2 Delay (Milliseconds)		
LL3101.Delay2_3	15000	DINT
Aeration Blowers LL2 Call On 2 to 3 Delay (Milliseconds)		
LL3101.Delay3_4	20000	DINT
Aeration Blowers LL2 Call On 3 to 4 Delay (Milliseconds)		
LL3101.Delay4_5	25000	DINT
Aeration Blowers LL2 Call On 4 to 5 Delay (Milliseconds)		
LL3101.Delay5_6	30000	DINT

LL3101 (Continued)

Aeration Blowers LL2 Call On 5 to 6 Delay (Milliseconds)		
LL3101.Delay6_5	30000	DINT
Aeration Blowers LL2 Call Off 6 to 5 Delay (Milliseconds)		
LL3101.Delay5_4	25000	DINT
Aeration Blowers LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL3101.Delay4_3	20000	DINT
Aeration Blowers LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL3101.Delay3_2	15000	DINT
Aeration Blowers LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL3101.Delay2_1	10000	DINT
Aeration Blowers LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL3101.Delay1_0	5000	DINT
Aeration Blowers LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL3101.MaxOn	0	BOOL
Aeration Blowers LL2 Maximum Number of Devices are Running		
LL3101.On1	0	BOOL
Aeration Blowers LL2		
LL3101.On2	0	BOOL
Aeration Blowers LL2		
LL3101.On3	0	BOOL
Aeration Blowers LL2		
LL3101.On4	0	BOOL
Aeration Blowers LL2		
LL3101.On5	0	BOOL
Aeration Blowers LL2		
LL3101.On6	0	BOOL
Aeration Blowers LL2		
LL3101.CountUpOS	0	BOOL
Aeration Blowers LL2		
LL3101.CountDownOS	0	BOOL
Aeration Blowers LL2		

LL3201 LL PLC_SH

Sludge Pumps LL2		
Constant	No	
External Access:	Read/Write	
LL3201.EnableIn	1	BOOL
Sludge Pumps LL2 Enable Input - System Defined Parameter		
LL3201.EnableOut	1	BOOL
Sludge Pumps LL2 Enable Output - System Defined Parameter		
LL3201.AlternationMode	0	DINT
Sludge Pumps LL2 Alternation Mode		
LL3201.AlternationPRE	2400	DINT
Sludge Pumps LL2 Alternation Time Preset (0.01 HRS)		
LL3201.AlternationACC	0	DINT
Sludge Pumps LL2 Alternation Time Accumulated (0.01 HRS)		
LL3201.NextCall	0	DINT
Sludge Pumps LL2 (1)Increase Call (0)No Call (-1)Decrease Call		
LL3201.NextCallCountDown	0	DINT
Sludge Pumps LL2 Next Call Count Down (Milliseconds)		
LL3201.NextCalled	0	DINT
Sludge Pumps LL2 (Equipment Number)		
LL3201.CalledCount	0	DINT
Sludge Pumps LL2 Called Count		
<i>LL3201.CalledCount - MainProgram/L3201_AerationBlower2_VFD - 20(GEQ)</i>		
LL3201.ReadyCount	0	DINT
Sludge Pumps LL2 Ready Count		
LL3201.OnCountTotal	0	DINT
Sludge Pumps LL2 Total On Count		
LL3201.OnCountAuto	0	DINT
Sludge Pumps LL2 Auto On Count		
LL3201.OnCountMax	1	DINT
Sludge Pumps LL2 Maximum On Count		

LL3201 (Continued)

LL3201.Ready1	0	BOOL
Sludge Pumps LL2 1 Ready		
LL3201.Ready2	0	BOOL
Sludge Pumps LL2 2 Ready		
LL3201.Ready3	0	BOOL
Sludge Pumps LL2 3 Ready		
LL3201.Ready4	0	BOOL
Sludge Pumps LL2 4 Ready		
LL3201.Ready5	0	BOOL
Sludge Pumps LL2 5 Ready		
LL3201.Ready6	0	BOOL
Sludge Pumps LL2 6 Ready		
LL3201.RunHours1	0	DINT
Sludge Pumps LL2 1 Total ETM		
LL3201.RunHours2	0	DINT
Sludge Pumps LL2 2 Total ETM		
LL3201.RunHours3	0	DINT
Sludge Pumps LL2 3 Total ETM		
LL3201.RunHours4	0	DINT
Sludge Pumps LL2 4 Total ETM		
LL3201.RunHours5	0	DINT
Sludge Pumps LL2 5 Total ETM		
LL3201.RunHours6	0	DINT
Sludge Pumps LL2 6 Total ETM		
LL3201.Position1SP	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position SP		
LL3201.Position2SP	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position SP		
LL3201.Position3SP	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position SP		
LL3201.Position4SP	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position SP		
LL3201.Position5SP	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position SP		
LL3201.Position6SP	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position SP		
LL3201.Position1	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position		
<i>LL3201.Position1 - MainProgram/L3201_AerationBlower2_VFD - 20(GEQ), 20(NEQ)</i>		
LL3201.Position2	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position		
LL3201.Position3	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position		
LL3201.Position4	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position		
LL3201.Position5	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position		
LL3201.Position6	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position		
LL3201.Delay0_1	5000	DINT
Sludge Pumps LL2 Call On 0 to 1 Delay (Milliseconds)		
LL3201.Delay1_2	10000	DINT
Sludge Pumps LL2 Call On 1 to 2 Delay (Milliseconds)		
LL3201.Delay2_3	15000	DINT
Sludge Pumps LL2 Call On 2 to 3 Delay (Milliseconds)		
LL3201.Delay3_4	20000	DINT
Sludge Pumps LL2 Call On 3 to 4 Delay (Milliseconds)		
LL3201.Delay4_5	25000	DINT
Sludge Pumps LL2 Call On 4 to 5 Delay (Milliseconds)		
LL3201.Delay5_6	30000	DINT
Sludge Pumps LL2 Call On 5 to 6 Delay (Milliseconds)		
LL3201.Delay6_5	30000	DINT
Sludge Pumps LL2 Call Off 6 to 5 Delay (Milliseconds)		

LL3201 (Continued)

LL3201.Delay5_4	25000	DINT
Sludge Pumps LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL3201.Delay4_3	20000	DINT
Sludge Pumps LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL3201.Delay3_2	15000	DINT
Sludge Pumps LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL3201.Delay2_1	10000	DINT
Sludge Pumps LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL3201.Delay1_0	5000	DINT
Sludge Pumps LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL3201.MaxOn	0	BOOL
Sludge Pumps LL2 Maximum Number of Devices are Running		
LL3201.On1	0	BOOL
Sludge Pumps LL2		
LL3201.On2	0	BOOL
Sludge Pumps LL2		
LL3201.On3	0	BOOL
Sludge Pumps LL2		
LL3201.On4	0	BOOL
Sludge Pumps LL2		
LL3201.On5	0	BOOL
Sludge Pumps LL2		
LL3201.On6	0	BOOL
Sludge Pumps LL2		
LL3201.CountUpOS	0	BOOL
Sludge Pumps LL2		
LL3201.CountDownOS	0	BOOL
Sludge Pumps LL2		

Local:1:I AB:1769_DI16:I:0 PLC_SH

Constant	No	
External Access:	Read/Write	
Local:1:I.Data.0	0	BOOL
<i>Local:1:I.Data.0 - MainProgram/L1101_SHT1_ControlValve - 0(XIC)</i>		
Local:1:I.Data.1	0	BOOL
<i>Local:1:I.Data.1 - MainProgram/L1101_SHT1_ControlValve - 1(XIC)</i>		
Local:1:I.Data.2	0	BOOL
<i>Local:1:I.Data.2 - MainProgram/L1101_SHT1_ControlValve - 2(XIC)</i>		
Local:1:I.Data.3	0	BOOL
<i>Local:1:I.Data.3 - MainProgram/L1101_SHT1_ControlValve - 3(XIC)</i>		
Local:1:I.Data.4	0	BOOL
<i>Local:1:I.Data.4 - MainProgram/L1201_SHT2_ControlValve - 0(XIC)</i>		
Local:1:I.Data.5	0	BOOL
<i>Local:1:I.Data.5 - MainProgram/L1201_SHT2_ControlValve - 1(XIC)</i>		
Local:1:I.Data.6	0	BOOL
<i>Local:1:I.Data.6 - MainProgram/L1201_SHT2_ControlValve - 2(XIC)</i>		
Local:1:I.Data.7	0	BOOL
<i>Local:1:I.Data.7 - MainProgram/L1201_SHT2_ControlValve - 3(XIC)</i>		
Local:1:I.Data.8	0	BOOL
<i>Local:1:I.Data.8 - MainProgram/L2101_Press1_SludgeValve - 0(XIC)</i>		
Local:1:I.Data.9	0	BOOL
<i>Local:1:I.Data.9 - MainProgram/L2101_Press1_SludgeValve - 1(XIC)</i>		
Local:1:I.Data.10	0	BOOL
<i>Local:1:I.Data.10 - MainProgram/L2101_Press1_SludgeValve - 2(XIC)</i>		
Local:1:I.Data.11	0	BOOL
<i>Local:1:I.Data.11 - MainProgram/L2101_Press1_SludgeValve - 3(XIC)</i>		
Local:1:I.Data.12	0	BOOL
<i>Local:1:I.Data.12 - MainProgram/L2201_Press2_SludgeValve - 0(XIC)</i>		
Local:1:I.Data.13	0	BOOL
<i>Local:1:I.Data.13 - MainProgram/L2201_Press2_SludgeValve - 1(XIC)</i>		
Local:1:I.Data.14	0	BOOL
<i>Local:1:I.Data.14 - MainProgram/L2201_Press2_SludgeValve - 2(XIC)</i>		
Local:1:I.Data.15	0	BOOL

Local:1:I (Continued)

Local:1:I.Data.15 - MainProgram/L2201_Press2_SludgeValve - 3(XIC)

Local:2:I AB:1769_DI16:I:0 PLC_SH

Constant No
 External Access: Read/Write

Local:2:I.Data.0 0 BOOL

Local:2:I.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - 0(XIC)

Local:2:I.Data.1 0 BOOL

Local:2:I.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - 1(XIC)

Local:2:I.Data.2 0 BOOL

Local:2:I.Data.2 - MainProgram/L2106_ScrewPressConveyor1 - 2(XIC)

Local:2:I.Data.3 0 BOOL

Local:2:I.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - 0(XIC)

Local:2:I.Data.4 0 BOOL

Local:2:I.Data.4 - MainProgram/L2206_ScrewPressConveyor2 - 1(XIC)

Local:2:I.Data.5 0 BOOL

Local:2:I.Data.5 - MainProgram/L2206_ScrewPressConveyor2 - 2(XIC)

Local:2:I.Data.9 0 BOOL

Local:2:I.Data.9 - MainProgram/L0000_Power - 0(XIC)

Local:2:I.Data.9 - MainProgram/MainRoutine - 3(XIC)

Local:2:I.Data.10 0 BOOL

Local:2:I.Data.10 - MainProgram/L0000_Intrusion - 0(XIC)

Local:2:I.Data.10 - MainProgram/MainRoutine - 4(XIO)

Local:2:I.Data.11 0 BOOL

Local:2:I.Data.11 - MainProgram/L0000_Power - 1(XIC)

Local:2:I.Data.12 1 BOOL

Local:2:I.Data.12 - MainProgram/L0000_Power - 2(XIO)

Local:2:I.Data.13 1 BOOL

Local:2:I.Data.13 - MainProgram/L0000_Power - 3(XIO)

Local:2:I.Data.14 1 BOOL

Local:2:I.Data.14 - MainProgram/L0000_Power - 4(XIO)

Local:2:I.Data.15 0 BOOL

Local:2:I.Data.15 - MainProgram/L0000_Power - 5(XIC)

Local:3:O AB:1769_DO8:O:0 PLC_SH

Constant No
 External Access: Read/Write

Local:3:O.Data.0 0 BOOL

*Local:3:O.Data.0 - MainProgram/L1101_SHT1_ControlValve - *4(OTE)*

Local:3:O.Data.1 0 BOOL

*Local:3:O.Data.1 - MainProgram/L1101_SHT1_ControlValve - *5(OTE)*

Local:3:O.Data.2 0 BOOL

*Local:3:O.Data.2 - MainProgram/L1201_SHT2_ControlValve - *4(OTE)*

Local:3:O.Data.3 0 BOOL

*Local:3:O.Data.3 - MainProgram/L1201_SHT2_ControlValve - *5(OTE)*

Local:3:O.Data.4 0 BOOL

*Local:3:O.Data.4 - MainProgram/L2101_Press1_SludgeValve - *4(OTE)*

Local:3:O.Data.5 0 BOOL

*Local:3:O.Data.5 - MainProgram/L2101_Press1_SludgeValve - *5(OTE)*

*Local:3:O.Data.5 - MainProgram/L2201_Press2_SludgeValve - *4(OTE)*

Local:3:O.Data.6 0 BOOL

*Local:3:O.Data.6 - MainProgram/L2201_Press2_SludgeValve - *5(OTE)*

Local:4:O AB:1769_DO8:O:0 PLC_SH

Constant No
 External Access: Read/Write

Local:4:O.Data.0 0 BOOL

*Local:4:O.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - *3(OTE)*

Local:4:O.Data.1 0 BOOL

*Local:4:O.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - *4(OTE)*

Local:4:O.Data.2 0 BOOL

*Local:4:O.Data.2 - MainProgram/L2206_ScrewPressConveyor2 - *3(OTE)*

Local:4:O.Data.3 0 BOOL

Local:4:O (Continued)

*Local:4:O.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - *4(OTE)*

Local:5:I AB:1769_IF8:I:0 PLC_SH

Constant No
External Access: Read/Write

Local:5:I.Ch0Data 0 INT

Local:5:I.Ch0Data - MainProgram/L1101_SHT1_Level - 0(MOV)

Local:5:I.Ch1Data 0 INT

Local:5:I.Ch1Data - MainProgram/L1102_SHT1_BlanketLevel - 0(MOV)

Local:5:I.Ch2Data 0 INT

Local:5:I.Ch2Data - MainProgram/L3103_AerBlower_Pressure - 0(MOV)

MinorFaultBits 0 DINT PLC_SH

Constant No
External Access: Read/Write

*MinorFaultBits - MainProgram/MainRoutine - *2(GSV)*

MinorFaultBits.10 0 BOOL

MinorFaultBits.10 - MainProgram/MainRoutine - 2(XIC)

MSG_TMR TIMER[50] PLC_SH

Message Timers
Constant No
External Access: Read/Write

MSG_TMR[0] TIMER

Message Timers

MSG_TMR[0].PRE 5000 DINT

Message Timers

MSG_TMR[0].ACC 1164 DINT

Message Timers

MSG_TMR[0].EN 1 BOOL

Message Timers

MSG_TMR[0].TT 1 BOOL

Message Timers

MSG_TMR[0].DN 0 BOOL

Message Timers

MSG_TMR[1] TIMER

Message Timers

*MSG_TMR[1] - MainProgram/Communications - *5(TON)*

MSG_TMR[1].PRE 500 DINT

Message Timers

MSG_TMR[1].ACC 219 DINT

Message Timers

MSG_TMR[1].EN 1 BOOL

Message Timers

MSG_TMR[1].TT 1 BOOL

Message Timers

MSG_TMR[1].DN 0 BOOL

Message Timers

MSG_TMR[1].DN - MainProgram/Communications - 20(XIC), 5(XIC)

MSG_TMR[2] TIMER

Message Timers

*MSG_TMR[2] - MainProgram/Communications - *6(TON)*

MSG_TMR[2].PRE 500 DINT

Message Timers

MSG_TMR[2].ACC 219 DINT

Message Timers

MSG_TMR[2].EN 1 BOOL

Message Timers

MSG_TMR[2].TT 1 BOOL

Message Timers

MSG_TMR[2].DN 0 BOOL

Message Timers

MSG_TMR[2].DN - MainProgram/Communications - 21(XIC), 6(XIC)

MSG_TMR (Continued)

MSG_TMR[3]		TIMER
Message Timers		
<i>MSG_TMR[3] - MainProgram/Communications - *20(TON)</i>		
MSG_TMR[3].PRE	500	DINT
Message Timers		
MSG_TMR[3].ACC	219	DINT
Message Timers		
MSG_TMR[3].EN	1	BOOL
Message Timers		
MSG_TMR[3].TT	1	BOOL
Message Timers		
MSG_TMR[3].DN	0	BOOL
Message Timers		
MSG_TMR[4]		TIMER
Message Timers		
<i>MSG_TMR[4] - MainProgram/Communications - *21(TON)</i>		
MSG_TMR[4].PRE	500	DINT
Message Timers		
MSG_TMR[4].ACC	219	DINT
Message Timers		
MSG_TMR[4].EN	1	BOOL
Message Timers		
MSG_TMR[4].TT	1	BOOL
Message Timers		
MSG_TMR[4].DN	0	BOOL
Message Timers		
MSG_TMR[5]		TIMER
Message Timers		
<i>MSG_TMR[5] - MainProgram/Communications - *33(TON)</i>		
MSG_TMR[5].PRE	500	DINT
Message Timers		
MSG_TMR[5].ACC	379	DINT
Message Timers		
MSG_TMR[5].EN	1	BOOL
Message Timers		
MSG_TMR[5].TT	1	BOOL
Message Timers		
MSG_TMR[5].DN	0	BOOL
Message Timers		
<i>MSG_TMR[5].DN - MainProgram/Communications - 33(XIC)</i>		
MSG_TMR[6]		TIMER
Message Timers		
MSG_TMR[6].PRE	0	DINT
Message Timers		
MSG_TMR[6].ACC	0	DINT
Message Timers		
MSG_TMR[6].EN	0	BOOL
Message Timers		
MSG_TMR[6].TT	0	BOOL
Message Timers		
MSG_TMR[6].DN	0	BOOL
Message Timers		
MSG_TMR[7]		TIMER
Message Timers		
MSG_TMR[7].PRE	0	DINT
Message Timers		
MSG_TMR[7].ACC	0	DINT
Message Timers		
MSG_TMR[7].EN	0	BOOL
Message Timers		
MSG_TMR[7].TT	0	BOOL
Message Timers		
MSG_TMR[7].DN	0	BOOL

MSG_TMR (Continued)

Message Timers		
MSG_TMR[8]		TIMER
Message Timers		
MSG_TMR[8].PRE	0	DINT
Message Timers		
MSG_TMR[8].ACC	0	DINT
Message Timers		
MSG_TMR[8].EN	0	BOOL
Message Timers		
MSG_TMR[8].TT	0	BOOL
Message Timers		
MSG_TMR[8].DN	0	BOOL
Message Timers		
MSG_TMR[9]		TIMER
Message Timers		
MSG_TMR[9].PRE	0	DINT
Message Timers		
MSG_TMR[9].ACC	0	DINT
Message Timers		
MSG_TMR[9].EN	0	BOOL
Message Timers		
MSG_TMR[9].TT	0	BOOL
Message Timers		
MSG_TMR[9].DN	0	BOOL
Message Timers		
MSG_TMR[10]		TIMER
Message Timers		
MSG_TMR[10].PRE	0	DINT
Message Timers		
MSG_TMR[10].ACC	0	DINT
Message Timers		
MSG_TMR[10].EN	0	BOOL
Message Timers		
MSG_TMR[10].TT	0	BOOL
Message Timers		
MSG_TMR[10].DN	0	BOOL
Message Timers		
MSG_TMR[11]		TIMER
Message Timers		
MSG_TMR[11].PRE	0	DINT
Message Timers		
MSG_TMR[11].ACC	0	DINT
Message Timers		
MSG_TMR[11].EN	0	BOOL
Message Timers		
MSG_TMR[11].TT	0	BOOL
Message Timers		
MSG_TMR[11].DN	0	BOOL
Message Timers		
MSG_TMR[12]		TIMER
Message Timers		
MSG_TMR[12].PRE	0	DINT
Message Timers		
MSG_TMR[12].ACC	0	DINT
Message Timers		
MSG_TMR[12].EN	0	BOOL
Message Timers		
MSG_TMR[12].TT	0	BOOL
Message Timers		
MSG_TMR[12].DN	0	BOOL
Message Timers		
MSG_TMR[13]		TIMER
Message Timers		

MSG_TMR (Continued)		
MSG_TMR[13].PRE	0	DINT
Message Timers		
MSG_TMR[13].ACC	0	DINT
Message Timers		
MSG_TMR[13].EN	0	BOOL
Message Timers		
MSG_TMR[13].TT	0	BOOL
Message Timers		
MSG_TMR[13].DN	0	BOOL
Message Timers		
MSG_TMR[14]		TIMER
Message Timers		
MSG_TMR[14].PRE	0	DINT
Message Timers		
MSG_TMR[14].ACC	0	DINT
Message Timers		
MSG_TMR[14].EN	0	BOOL
Message Timers		
MSG_TMR[14].TT	0	BOOL
Message Timers		
MSG_TMR[14].DN	0	BOOL
Message Timers		
MSG_TMR[15]		TIMER
Message Timers		
MSG_TMR[15].PRE	0	DINT
Message Timers		
MSG_TMR[15].ACC	0	DINT
Message Timers		
MSG_TMR[15].EN	0	BOOL
Message Timers		
MSG_TMR[15].TT	0	BOOL
Message Timers		
MSG_TMR[15].DN	0	BOOL
Message Timers		
MSG_TMR[16]		TIMER
Message Timers		
MSG_TMR[16].PRE	0	DINT
Message Timers		
MSG_TMR[16].ACC	0	DINT
Message Timers		
MSG_TMR[16].EN	0	BOOL
Message Timers		
MSG_TMR[16].TT	0	BOOL
Message Timers		
MSG_TMR[16].DN	0	BOOL
Message Timers		
MSG_TMR[17]		TIMER
Message Timers		
MSG_TMR[17].PRE	0	DINT
Message Timers		
MSG_TMR[17].ACC	0	DINT
Message Timers		
MSG_TMR[17].EN	0	BOOL
Message Timers		
MSG_TMR[17].TT	0	BOOL
Message Timers		
MSG_TMR[17].DN	0	BOOL
Message Timers		
MSG_TMR[18]		TIMER
Message Timers		
MSG_TMR[18].PRE	0	DINT
Message Timers		
MSG_TMR[18].ACC	0	DINT

MSG_TMR (Continued)

Message Timers		
MSG_TMR[18].EN	0	BOOL
Message Timers		
MSG_TMR[18].TT	0	BOOL
Message Timers		
MSG_TMR[18].DN	0	BOOL
Message Timers		
MSG_TMR[19]		TIMER
Message Timers		
MSG_TMR[19].PRE	0	DINT
Message Timers		
MSG_TMR[19].ACC	0	DINT
Message Timers		
MSG_TMR[19].EN	0	BOOL
Message Timers		
MSG_TMR[19].TT	0	BOOL
Message Timers		
MSG_TMR[19].DN	0	BOOL
Message Timers		
MSG_TMR[20]		TIMER
Message Timers		
MSG_TMR[20].PRE	30000	DINT
Message Timers		
MSG_TMR[20].ACC	30015	DINT
Message Timers		
MSG_TMR[20].EN	0	BOOL
Message Timers		
MSG_TMR[20].TT	0	BOOL
Message Timers		
MSG_TMR[20].DN	0	BOOL
Message Timers		
MSG_TMR[21]		TIMER
Message Timers		
MSG_TMR[21].PRE	30000	DINT
Message Timers		
MSG_TMR[21].ACC	0	DINT
Message Timers		
MSG_TMR[21].EN	0	BOOL
Message Timers		
MSG_TMR[21].TT	0	BOOL
Message Timers		
MSG_TMR[21].DN	0	BOOL
Message Timers		
MSG_TMR[22]		TIMER
Message Timers		
MSG_TMR[22].PRE	0	DINT
Message Timers		
MSG_TMR[22].ACC	0	DINT
Message Timers		
MSG_TMR[22].EN	0	BOOL
Message Timers		
MSG_TMR[22].TT	0	BOOL
Message Timers		
MSG_TMR[22].DN	0	BOOL
Message Timers		
MSG_TMR[23]		TIMER
Message Timers		
MSG_TMR[23].PRE	0	DINT
Message Timers		
MSG_TMR[23].ACC	0	DINT
Message Timers		
MSG_TMR[23].EN	0	BOOL
Message Timers		

Tag Name	Value	DataType
MSG_TMR (Continued)		
MSG_TMR[23].TT	0	BOOL
Message Timers		
MSG_TMR[23].DN	0	BOOL
Message Timers		
MSG_TMR[24]		TIMER
Message Timers		
MSG_TMR[24].PRE	0	DINT
Message Timers		
MSG_TMR[24].ACC	0	DINT
Message Timers		
MSG_TMR[24].EN	0	BOOL
Message Timers		
MSG_TMR[24].TT	0	BOOL
Message Timers		
MSG_TMR[24].DN	0	BOOL
Message Timers		
MSG_TMR[25]		TIMER
Message Timers		
MSG_TMR[25].PRE	0	DINT
Message Timers		
MSG_TMR[25].ACC	0	DINT
Message Timers		
MSG_TMR[25].EN	0	BOOL
Message Timers		
MSG_TMR[25].TT	0	BOOL
Message Timers		
MSG_TMR[25].DN	0	BOOL
Message Timers		
MSG_TMR[26]		TIMER
Message Timers		
MSG_TMR[26].PRE	0	DINT
Message Timers		
MSG_TMR[26].ACC	0	DINT
Message Timers		
MSG_TMR[26].EN	0	BOOL
Message Timers		
MSG_TMR[26].TT	0	BOOL
Message Timers		
MSG_TMR[26].DN	0	BOOL
Message Timers		
MSG_TMR[27]		TIMER
Message Timers		
MSG_TMR[27].PRE	0	DINT
Message Timers		
MSG_TMR[27].ACC	0	DINT
Message Timers		
MSG_TMR[27].EN	0	BOOL
Message Timers		
MSG_TMR[27].TT	0	BOOL
Message Timers		
MSG_TMR[27].DN	0	BOOL
Message Timers		
MSG_TMR[28]		TIMER
Message Timers		
MSG_TMR[28].PRE	0	DINT
Message Timers		
MSG_TMR[28].ACC	0	DINT
Message Timers		
MSG_TMR[28].EN	0	BOOL
Message Timers		
MSG_TMR[28].TT	0	BOOL
Message Timers		
MSG_TMR[28].DN	0	BOOL
Message Timers		

MSG_TMR (Continued)

Message Timers		
MSG_TMR[29]		TIMER
Message Timers		
MSG_TMR[29].PRE	0	DINT
Message Timers		
MSG_TMR[29].ACC	0	DINT
Message Timers		
MSG_TMR[29].EN	0	BOOL
Message Timers		
MSG_TMR[29].TT	0	BOOL
Message Timers		
MSG_TMR[29].DN	0	BOOL
Message Timers		
MSG_TMR[30]		TIMER
Message Timers		
MSG_TMR[30].PRE	0	DINT
Message Timers		
MSG_TMR[30].ACC	0	DINT
Message Timers		
MSG_TMR[30].EN	0	BOOL
Message Timers		
MSG_TMR[30].TT	0	BOOL
Message Timers		
MSG_TMR[30].DN	0	BOOL
Message Timers		
MSG_TMR[31]		TIMER
Message Timers		
MSG_TMR[31].PRE	0	DINT
Message Timers		
MSG_TMR[31].ACC	0	DINT
Message Timers		
MSG_TMR[31].EN	0	BOOL
Message Timers		
MSG_TMR[31].TT	0	BOOL
Message Timers		
MSG_TMR[31].DN	0	BOOL
Message Timers		
MSG_TMR[32]		TIMER
Message Timers		
MSG_TMR[32].PRE	0	DINT
Message Timers		
MSG_TMR[32].ACC	0	DINT
Message Timers		
MSG_TMR[32].EN	0	BOOL
Message Timers		
MSG_TMR[32].TT	0	BOOL
Message Timers		
MSG_TMR[32].DN	0	BOOL
Message Timers		
MSG_TMR[33]		TIMER
Message Timers		
MSG_TMR[33].PRE	0	DINT
Message Timers		
MSG_TMR[33].ACC	0	DINT
Message Timers		
MSG_TMR[33].EN	0	BOOL
Message Timers		
MSG_TMR[33].TT	0	BOOL
Message Timers		
MSG_TMR[33].DN	0	BOOL
Message Timers		
MSG_TMR[34]		TIMER
Message Timers		

MSG_TMR (Continued)		
MSG_TMR[34].PRE	0	DINT
Message Timers		
MSG_TMR[34].ACC	0	DINT
Message Timers		
MSG_TMR[34].EN	0	BOOL
Message Timers		
MSG_TMR[34].TT	0	BOOL
Message Timers		
MSG_TMR[34].DN	0	BOOL
Message Timers		
MSG_TMR[35]		TIMER
Message Timers		
MSG_TMR[35].PRE	0	DINT
Message Timers		
MSG_TMR[35].ACC	0	DINT
Message Timers		
MSG_TMR[35].EN	0	BOOL
Message Timers		
MSG_TMR[35].TT	0	BOOL
Message Timers		
MSG_TMR[35].DN	0	BOOL
Message Timers		
MSG_TMR[36]		TIMER
Message Timers		
MSG_TMR[36].PRE	0	DINT
Message Timers		
MSG_TMR[36].ACC	0	DINT
Message Timers		
MSG_TMR[36].EN	0	BOOL
Message Timers		
MSG_TMR[36].TT	0	BOOL
Message Timers		
MSG_TMR[36].DN	0	BOOL
Message Timers		
MSG_TMR[37]		TIMER
Message Timers		
MSG_TMR[37].PRE	0	DINT
Message Timers		
MSG_TMR[37].ACC	0	DINT
Message Timers		
MSG_TMR[37].EN	0	BOOL
Message Timers		
MSG_TMR[37].TT	0	BOOL
Message Timers		
MSG_TMR[37].DN	0	BOOL
Message Timers		
MSG_TMR[38]		TIMER
Message Timers		
MSG_TMR[38].PRE	0	DINT
Message Timers		
MSG_TMR[38].ACC	0	DINT
Message Timers		
MSG_TMR[38].EN	0	BOOL
Message Timers		
MSG_TMR[38].TT	0	BOOL
Message Timers		
MSG_TMR[38].DN	0	BOOL
Message Timers		
MSG_TMR[39]		TIMER
Message Timers		
MSG_TMR[39].PRE	0	DINT
Message Timers		
MSG_TMR[39].ACC	0	DINT

MSG_TMR (Continued)

Message Timers		
MSG_TMR[39].EN	0	BOOL
Message Timers		
MSG_TMR[39].TT	0	BOOL
Message Timers		
MSG_TMR[39].DN	0	BOOL
Message Timers		
MSG_TMR[40]		TIMER
Message Timers		
MSG_TMR[40].PRE	0	DINT
Message Timers		
MSG_TMR[40].ACC	0	DINT
Message Timers		
MSG_TMR[40].EN	0	BOOL
Message Timers		
MSG_TMR[40].TT	0	BOOL
Message Timers		
MSG_TMR[40].DN	0	BOOL
Message Timers		
MSG_TMR[41]		TIMER
Message Timers		
MSG_TMR[41].PRE	0	DINT
Message Timers		
MSG_TMR[41].ACC	0	DINT
Message Timers		
MSG_TMR[41].EN	0	BOOL
Message Timers		
MSG_TMR[41].TT	0	BOOL
Message Timers		
MSG_TMR[41].DN	0	BOOL
Message Timers		
MSG_TMR[42]		TIMER
Message Timers		
MSG_TMR[42].PRE	0	DINT
Message Timers		
MSG_TMR[42].ACC	0	DINT
Message Timers		
MSG_TMR[42].EN	0	BOOL
Message Timers		
MSG_TMR[42].TT	0	BOOL
Message Timers		
MSG_TMR[42].DN	0	BOOL
Message Timers		
MSG_TMR[43]		TIMER
Message Timers		
MSG_TMR[43].PRE	0	DINT
Message Timers		
MSG_TMR[43].ACC	0	DINT
Message Timers		
MSG_TMR[43].EN	0	BOOL
Message Timers		
MSG_TMR[43].TT	0	BOOL
Message Timers		
MSG_TMR[43].DN	0	BOOL
Message Timers		
MSG_TMR[44]		TIMER
Message Timers		
MSG_TMR[44].PRE	0	DINT
Message Timers		
MSG_TMR[44].ACC	0	DINT
Message Timers		
MSG_TMR[44].EN	0	BOOL
Message Timers		

Tag Name	Value	DataType
MSG_TMR (Continued)		
MSG_TMR[44].TT	0	BOOL
Message Timers		
MSG_TMR[44].DN	0	BOOL
Message Timers		
MSG_TMR[45]		TIMER
Message Timers		
MSG_TMR[45].PRE	0	DINT
Message Timers		
MSG_TMR[45].ACC	0	DINT
Message Timers		
MSG_TMR[45].EN	0	BOOL
Message Timers		
MSG_TMR[45].TT	0	BOOL
Message Timers		
MSG_TMR[45].DN	0	BOOL
Message Timers		
MSG_TMR[46]		TIMER
Message Timers		
MSG_TMR[46].PRE	0	DINT
Message Timers		
MSG_TMR[46].ACC	0	DINT
Message Timers		
MSG_TMR[46].EN	0	BOOL
Message Timers		
MSG_TMR[46].TT	0	BOOL
Message Timers		
MSG_TMR[46].DN	0	BOOL
Message Timers		
MSG_TMR[47]		TIMER
Message Timers		
MSG_TMR[47].PRE	0	DINT
Message Timers		
MSG_TMR[47].ACC	0	DINT
Message Timers		
MSG_TMR[47].EN	0	BOOL
Message Timers		
MSG_TMR[47].TT	0	BOOL
Message Timers		
MSG_TMR[47].DN	0	BOOL
Message Timers		
MSG_TMR[48]		TIMER
Message Timers		
MSG_TMR[48].PRE	0	DINT
Message Timers		
MSG_TMR[48].ACC	0	DINT
Message Timers		
MSG_TMR[48].EN	0	BOOL
Message Timers		
MSG_TMR[48].TT	0	BOOL
Message Timers		
MSG_TMR[48].DN	0	BOOL
Message Timers		
MSG_TMR[49]		TIMER
Message Timers		
MSG_TMR[49].PRE	0	DINT
Message Timers		
MSG_TMR[49].ACC	0	DINT
Message Timers		
MSG_TMR[49].EN	0	BOOL
Message Timers		
MSG_TMR[49].TT	0	BOOL
Message Timers		
MSG_TMR[49].DN	0	BOOL
Message Timers		

MSG_TMR (Continued)

Message Timers

MSG01	MESSAGE	PLC_SH
Read DINT Data from PLC-PRESS1		
External Access: Read/Write		
<i>MSG01 - MainProgram/Communications - *13(SSV), *5(MSG)</i>		
MSG01.Flags 16#0290	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Flags.4 1	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.Flags.5 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.Flags.7 1	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.EW 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.ER 1	BOOL	
Read DINT Data from PLC-PRESS1		
<i>MSG01.ER - MainProgram/Communications - 5(XIC)</i>		
MSG01.DN 0	BOOL	
Read DINT Data from PLC-PRESS1		
<i>MSG01.DN - MainProgram/Communications - 5(XIC)</i>		
MSG01.ST 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.EN 1	BOOL	
Read DINT Data from PLC-PRESS1		
<i>MSG01.EN - MainProgram/Communications - *5(OTU)</i>		
MSG01.TO 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.EN_CC 1	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.ERR 16#0001	INT	
Read DINT Data from PLC-PRESS1		
MSG01.EXERR 16#0008_0311	DINT	
Read DINT Data from PLC-PRESS1		
MSG01.ERR_SRC 8	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.DN_LEN 0	INT	
Read DINT Data from PLC-PRESS1		
MSG01.REQ_LEN 5	INT	
Read DINT Data from PLC-PRESS1		
MSG01.DestinationLink 0	INT	
Read DINT Data from PLC-PRESS1		
MSG01.DestinationNode 8#000_000	INT	
Read DINT Data from PLC-PRESS1		
MSG01.SourceLink 0	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Class 16#0000	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Attribute 16#0000	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Instance 0	DINT	
Read DINT Data from PLC-PRESS1		
MSG01.LocalIndex 0	DINT	
Read DINT Data from PLC-PRESS1		
MSG01.Channel '\$00'	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.Rack 8#000	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.Group 0	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.Slot 0	SINT	
Read DINT Data from PLC-PRESS1		

MSG01 (Continued)

MSG01.Path	'\$11\$0E192.168.108.10'	STRING
Read DINT Data from PLC-PRESS1		
MSG01.Path.LEN	16	DINT
Read DINT Data from PLC-PRESS1		
MSG01.Path.DATA		SINT
Read DINT Data from PLC-PRESS1		
MSG01.RemoteIndex	0	DINT
Read DINT Data from PLC-PRESS1		
MSG01.RemoteElement	'DATA_TO_SCADA_DINTS'	STRING
Read DINT Data from PLC-PRESS1		
MSG01.RemoteElement.LEN	19	DINT
Read DINT Data from PLC-PRESS1		
MSG01.RemoteElement.DATA		SINT
Read DINT Data from PLC-PRESS1		
MSG01.UnconnectedTimeout	3000000	DINT
Read DINT Data from PLC-PRESS1		
MSG01.ConnectionRate	7500000	DINT
Read DINT Data from PLC-PRESS1		
MSG01.TimeoutMultiplier	0	SINT
Read DINT Data from PLC-PRESS1		

MSG02 MESSAGE PLC_SH

Write DINT Data to PLC-PRESS1		
External Access:	Read/Write	
<i>MSG02 - MainProgram/Communications - *I4(SSV), *6(MSG)</i>		
MSG02.Flags	16#0290	INT
Write DINT Data to PLC-PRESS1		
MSG02.Flags.4	1	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.Flags.5	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.Flags.7	1	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.EW	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.ER	1	BOOL
Write DINT Data to PLC-PRESS1		
<i>MSG02.ER - MainProgram/Communications - 6(XIC)</i>		
MSG02.DN	0	BOOL
Write DINT Data to PLC-PRESS1		
<i>MSG02.DN - MainProgram/Communications - 6(XIC)</i>		
MSG02.ST	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.EN	1	BOOL
Write DINT Data to PLC-PRESS1		
<i>MSG02.EN - MainProgram/Communications - *6(OTU)</i>		
MSG02.TO	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.EN_CC	1	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.ERR	16#0001	INT
Write DINT Data to PLC-PRESS1		
MSG02.EXERR	16#0000_0311	DINT
Write DINT Data to PLC-PRESS1		
MSG02.ERR_SRC	8	SINT
Write DINT Data to PLC-PRESS1		
MSG02.DN_LEN	0	INT
Write DINT Data to PLC-PRESS1		
MSG02.REQ_LEN	1	INT
Write DINT Data to PLC-PRESS1		
MSG02.DestinationLink	0	INT
Write DINT Data to PLC-PRESS1		
MSG02.DestinationNode	8#000_000	INT

MSG02 (Continued)

Write DINT Data to PLC-PRESS1		
MSG02.SourceLink	0	INT
Write DINT Data to PLC-PRESS1		
MSG02.Class	16#0000	INT
Write DINT Data to PLC-PRESS1		
MSG02.Attribute	16#0000	INT
Write DINT Data to PLC-PRESS1		
MSG02.Instance	0	DINT
Write DINT Data to PLC-PRESS1		
MSG02.LocalIndex	0	DINT
Write DINT Data to PLC-PRESS1		
MSG02.Channel	'\$00'	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Rack	8#000	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Group	0	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Slot	0	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Path	'\$11\$0E192.168.108.10'	STRING
Write DINT Data to PLC-PRESS1		
MSG02.Path.LEN	16	DINT
Write DINT Data to PLC-PRESS1		
MSG02.Path.DATA		SINT
Write DINT Data to PLC-PRESS1		
MSG02.RemoteIndex	0	DINT
Write DINT Data to PLC-PRESS1		
MSG02.RemoteElement	'DATA_FROM_SCADA_DINT'	STRING
Write DINT Data to PLC-PRESS1		
MSG02.RemoteElement.LEN	20	DINT
Write DINT Data to PLC-PRESS1		
MSG02.RemoteElement.DATA		SINT
Write DINT Data to PLC-PRESS1		
MSG02.UnconnectedTimeout	3000000	DINT
Write DINT Data to PLC-PRESS1		
MSG02.ConnectionRate	7500000	DINT
Write DINT Data to PLC-PRESS1		
MSG02.TimeoutMultiplier	0	SINT
Write DINT Data to PLC-PRESS1		

MSG03 MESSAGE PLC_SH

Read DINT Data from PLC-PRESS2		
External Access:	Read/Write	
<i>MSG03 - MainProgram/Communications - *20(MSG), *28(SSV)</i>		
MSG03.Flags	16#0290	INT
Read DINT Data from PLC-PRESS2		
MSG03.Flags.4	1	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.Flags.5	0	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.Flags.7	1	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.EW	0	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.ER	1	BOOL
Read DINT Data from PLC-PRESS2		
<i>MSG03.ER - MainProgram/Communications - 20(XIC)</i>		
MSG03.DN	0	BOOL
Read DINT Data from PLC-PRESS2		
<i>MSG03.DN - MainProgram/Communications - 20(XIC)</i>		
MSG03.ST	0	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.EN	1	BOOL

MSG03 (Continued)

Read DINT Data from PLC-PRESS2
*MSG03.EN - MainProgram/Communications - *20(OTU)*

MSG03.TO 0 BOOL
 Read DINT Data from PLC-PRESS2

MSG03.EN_CC 1 BOOL
 Read DINT Data from PLC-PRESS2

MSG03.ERR 16#0001 INT
 Read DINT Data from PLC-PRESS2

MSG03.EXERR 16#0008_0311 DINT
 Read DINT Data from PLC-PRESS2

MSG03.ERR_SRC 8 SINT
 Read DINT Data from PLC-PRESS2

MSG03.DN_LEN 0 INT
 Read DINT Data from PLC-PRESS2

MSG03.REQ_LEN 5 INT
 Read DINT Data from PLC-PRESS2

MSG03.DestinationLink 0 INT
 Read DINT Data from PLC-PRESS2

MSG03.DestinationNode 8#000_000 INT
 Read DINT Data from PLC-PRESS2

MSG03.SourceLink 0 INT
 Read DINT Data from PLC-PRESS2

MSG03.Class 16#0000 INT
 Read DINT Data from PLC-PRESS2

MSG03.Attribute 16#0000 INT
 Read DINT Data from PLC-PRESS2

MSG03.Instance 0 DINT
 Read DINT Data from PLC-PRESS2

MSG03.LocalIndex 0 DINT
 Read DINT Data from PLC-PRESS2

MSG03.Channel '\$00' SINT
 Read DINT Data from PLC-PRESS2

MSG03.Rack 8#000 SINT
 Read DINT Data from PLC-PRESS2

MSG03.Group 0 SINT
 Read DINT Data from PLC-PRESS2

MSG03.Slot 0 SINT
 Read DINT Data from PLC-PRESS2

MSG03.Path '\$11\$0E192.168.108.20' STRING
 Read DINT Data from PLC-PRESS2

MSG03.Path.LEN 16 DINT
 Read DINT Data from PLC-PRESS2

MSG03.Path.DATA SINT
 Read DINT Data from PLC-PRESS2

MSG03.RemoteIndex 0 DINT
 Read DINT Data from PLC-PRESS2

MSG03.RemoteElement 'DATA_TO_SCADA_DINTS' STRING
 Read DINT Data from PLC-PRESS2

MSG03.RemoteElement.LEN 19 DINT
 Read DINT Data from PLC-PRESS2

MSG03.RemoteElement.DATA SINT
 Read DINT Data from PLC-PRESS2

MSG03.UnconnectedTimeout 3000000 DINT
 Read DINT Data from PLC-PRESS2

MSG03.ConnectionRate 7500000 DINT
 Read DINT Data from PLC-PRESS2

MSG03.TimeoutMultiplier 0 SINT
 Read DINT Data from PLC-PRESS2

MSG04 MESSAGE PLC_SH

Write DINT Data to PLC-PRESS2
 External Access: Read/Write
*MSG04 - MainProgram/Communications - *21(MSG), *29(SSV)*

MSG04 (Continued)

MSG04.Flags	16#0290	INT
Write DINT Data to PLC-PRESS2		
MSG04.Flags.4	1	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.Flags.5	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.Flags.7	1	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.EW	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.ER	1	BOOL
Write DINT Data to PLC-PRESS2		
<i>MSG04.ER - MainProgram/Communications - 21(XIC)</i>		
MSG04.DN	0	BOOL
Write DINT Data to PLC-PRESS2		
<i>MSG04.DN - MainProgram/Communications - 21(XIC)</i>		
MSG04.ST	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.EN	1	BOOL
Write DINT Data to PLC-PRESS2		
<i>MSG04.EN - MainProgram/Communications - *21(OTU)</i>		
MSG04.TO	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.EN_CC	1	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.ERR	16#0001	INT
Write DINT Data to PLC-PRESS2		
MSG04.EXERR	16#0000_0311	DINT
Write DINT Data to PLC-PRESS2		
MSG04.ERR_SRC	8	SINT
Write DINT Data to PLC-PRESS2		
MSG04.DN_LEN	0	INT
Write DINT Data to PLC-PRESS2		
MSG04.REQ_LEN	1	INT
Write DINT Data to PLC-PRESS2		
MSG04.DestinationLink	0	INT
Write DINT Data to PLC-PRESS2		
MSG04.DestinationNode	8#000_000	INT
Write DINT Data to PLC-PRESS2		
MSG04.SourceLink	0	INT
Write DINT Data to PLC-PRESS2		
MSG04.Class	16#0000	INT
Write DINT Data to PLC-PRESS2		
MSG04.Attribute	16#0000	INT
Write DINT Data to PLC-PRESS2		
MSG04.Instance	0	DINT
Write DINT Data to PLC-PRESS2		
MSG04.LocalIndex	0	DINT
Write DINT Data to PLC-PRESS2		
MSG04.Channel	'\$00'	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Rack	8#000	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Group	0	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Slot	0	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Path	'\$11\$0E192.168.108.20'	STRING
Write DINT Data to PLC-PRESS2		
MSG04.Path.LEN	16	DINT
Write DINT Data to PLC-PRESS2		
MSG04.Path.DATA		SINT
Write DINT Data to PLC-PRESS2		

MSG04 (Continued)			
MSG04.RemoteIndex	0	DINT	
Write DINT Data to PLC-PRESS2			
MSG04.RemoteElement	'DATA_FROM_SCADA_DINT'	STRING	
Write DINT Data to PLC-PRESS2			
MSG04.RemoteElement.LEN	20	DINT	
Write DINT Data to PLC-PRESS2			
MSG04.RemoteElement.DATA		SINT	
Write DINT Data to PLC-PRESS2			
MSG04.UnconnectedTimeout	3000000	DINT	
Write DINT Data to PLC-PRESS2			
MSG04.ConnectionRate	7500000	DINT	
Write DINT Data to PLC-PRESS2			
MSG04.TimeoutMultiplier	0	SINT	
Write DINT Data to PLC-PRESS2			
MSG05		MESSAGE	PLC_SH
External Access: Read/Write			
<i>MSG05 - MainProgram/Communications - *33(MSG)</i>			
MSG05.ER	0	BOOL	
<i>MSG05.ER - MainProgram/Communications - 33(XIC)</i>			
MSG05.DN	1	BOOL	
<i>MSG05.DN - MainProgram/Communications - 33(XIC)</i>			
MSG05.EN	1	BOOL	
<i>MSG05.EN - MainProgram/Communications - *33(OTU)</i>			
ONS1100		BOOL[32]	PLC_SH
Constant No			
External Access: Read/Write			
ONS1100[0]	0	BOOL	
<i>ONS1100[0] - MainProgram/L1100_PressControl - *5(ONS)</i>			
ONS1100[1]	0	BOOL	
<i>ONS1100[1] - MainProgram/L1100_PressControl - *6(ONS)</i>			
OSC1101		OSC	PLC_SH
Solids Holding Tank 1 Control Valve			
Constant No			
External Access: Read/Write			
<i>OSC1101 - MainProgram/L1101_SHT1_ControlValve - *14(OSC)</i>			
OSC1101.EnableIn	0	BOOL	
Solids Holding Tank 1 Control Valve Enable Input - System Defined Parameter			
OSC1101.EnableOut	0	BOOL	
Solids Holding Tank 1 Control Valve Enable Output - System Defined Parameter			
OSC1101.HMIAuto	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Auto			
OSC1101.AutoOpen	0	BOOL	
Solids Holding Tank 1 Control Valve Auto Open Command			
<i>OSC1101.AutoOpen - MainProgram/L1101_SHT1_ControlValve - *12(O TE), 13(XIO)</i>			
OSC1101.HMIOpen	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Manual Open			
OSC1101.HMIStop	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Manual Stop			
OSC1101.HMIClose	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Manual Close			
OSC1101.OpenCmd	0	BOOL	
Solids Holding Tank 1 Control Valve Open Command			
<i>OSC1101.OpenCmd - MainProgram/L1101_SHT1_ControlValve - 4(XIC), 6(XIC)</i>			
OSC1101.AutoClose	1	BOOL	
Solids Holding Tank 1 Control Valve Auto Close Command			
<i>OSC1101.AutoClose - MainProgram/L1101_SHT1_ControlValve - *13(O TE)</i>			
OSC1101.AutoStop	0	BOOL	
Solids Holding Tank 1 Control Valve Auto Stop Command			
OSC1101.CloseCmd	0	BOOL	
Solids Holding Tank 1 Control Valve Close Command			

OSC1101 (Continued)

OSC1101.CloseCmd - MainProgram/L1101_SHT1_ControlValve - 5(XIC), 7(XIC)

OSC1101.StopCmd 1 BOOL
Solids Holding Tank 1 Control Valve Stop Command

OSC1201 OSC PLC_SH

Solids Holding Tank 2 Control Valve

Constant No

External Access: Read/Write

*OSC1201 - MainProgram/L1201_SHT2_ControlValve - *14(OSC)*

OSC1201.EnableIn 0 BOOL
Solids Holding Tank 2 Control Valve Enable Input - System Defined Parameter

OSC1201.EnableOut 0 BOOL
Solids Holding Tank 2 Control Valve Enable Output - System Defined Parameter

OSC1201.HMIAuto 0 BOOL
Solids Holding Tank 2 Control Valve HMI Auto

OSC1201.AutoOpen 0 BOOL
Solids Holding Tank 2 Control Valve Auto Open Command

*OSC1201.AutoOpen - MainProgram/L1201_SHT2_ControlValve - *12(O TE), 13(XIO)*

OSC1201.HMIOpen 0 BOOL
Solids Holding Tank 2 Control Valve HMI Manual Open

OSC1201.HMIStop 0 BOOL
Solids Holding Tank 2 Control Valve HMI Manual Stop

OSC1201.HMIClose 0 BOOL
Solids Holding Tank 2 Control Valve HMI Manual Close

OSC1201.OpenCmd 0 BOOL
Solids Holding Tank 2 Control Valve Open Command

OSC1201.OpenCmd - MainProgram/L1201_SHT2_ControlValve - 4(XIC), 6(XIC)

OSC1201.AutoClose 1 BOOL
Solids Holding Tank 2 Control Valve Auto Close Command

*OSC1201.AutoClose - MainProgram/L1201_SHT2_ControlValve - *13(O TE)*

OSC1201.AutoStop 0 BOOL
Solids Holding Tank 2 Control Valve Auto Stop Command

OSC1201.CloseCmd 0 BOOL
Solids Holding Tank 2 Control Valve Close Command

OSC1201.CloseCmd - MainProgram/L1201_SHT2_ControlValve - 5(XIC), 7(XIC)

OSC1201.StopCmd 1 BOOL
Solids Holding Tank 2 Control Valve Stop Command

OSC2101 OSC PLC_SH

Press 1 Sludge Valve

Constant No

External Access: Read/Write

*OSC2101 - MainProgram/L2101_Press1_SludgeValve - *14(OSC)*

OSC2101.EnableIn 0 BOOL
Press 1 Sludge Valve Enable Input - System Defined Parameter

OSC2101.EnableOut 0 BOOL
Press 1 Sludge Valve Enable Output - System Defined Parameter

OSC2101.HMIAuto 0 BOOL
Press 1 Sludge Valve HMI Auto

OSC2101.HMIAuto - MainProgram/L1100_PressControl - 3(XIO)

OSC2101.AutoOpen 0 BOOL
Press 1 Sludge Valve Auto Open Command

*OSC2101.AutoOpen - MainProgram/L2101_Press1_SludgeValve - *12(O TE), 13(XIO)*

OSC2101.HMIOpen 0 BOOL
Press 1 Sludge Valve HMI Manual Open

OSC2101.HMIStop 0 BOOL
Press 1 Sludge Valve HMI Manual Stop

OSC2101.HMIClose 0 BOOL
Press 1 Sludge Valve HMI Manual Close

OSC2101.OpenCmd 0 BOOL
Press 1 Sludge Valve Open Command

OSC2101.OpenCmd - MainProgram/L2101_Press1_SludgeValve - 4(XIC), 6(XIC)

OSC2101.AutoClose 1 BOOL

OSC2101 (Continued)		
Press 1 Sludge Valve Auto Close Command		
<i>OSC2101.AutoClose - MainProgram/L2101_Press1_SludgeValve - *13(OTE)</i>		
OSC2101.AutoStop	0	BOOL
Press 1 Sludge Valve Auto Stop Command		
OSC2101.CloseCmd	0	BOOL
Press 1 Sludge Valve Close Command		
<i>OSC2101.CloseCmd - MainProgram/L2101_Press1_SludgeValve - 5(XIC), 7(XIC)</i>		
OSC2101.StopCmd	1	BOOL
Press 1 Sludge Valve Stop Command		
OSC2201		OSC PLC_SH
Press 2 Sludge Valve		
Constant	No	
External Access:	Read/Write	
<i>OSC2201 - MainProgram/L2201_Press2_SludgeValve - *14(OSC)</i>		
OSC2201.EnableIn	0	BOOL
Press 2 Sludge Valve Enable Input - System Defined Parameter		
OSC2201.EnableOut	0	BOOL
Press 2 Sludge Valve Enable Output - System Defined Parameter		
OSC2201.HMIAuto	0	BOOL
Press 2 Sludge Valve HMI Auto		
<i>OSC2201.HMIAuto - MainProgram/L1100_PressControl - 4(XIO)</i>		
OSC2201.AutoOpen	0	BOOL
Press 2 Sludge Valve Auto Open Command		
<i>OSC2201.AutoOpen - MainProgram/L2201_Press2_SludgeValve - *12(OTE), 13(XIO)</i>		
OSC2201.HMIOpen	0	BOOL
Press 2 Sludge Valve HMI Manual Open		
OSC2201.HMIStop	0	BOOL
Press 2 Sludge Valve HMI Manual Stop		
OSC2201.HMIClose	0	BOOL
Press 2 Sludge Valve HMI Manual Close		
OSC2201.OpenCmd	0	BOOL
Press 2 Sludge Valve Open Command		
<i>OSC2201.OpenCmd - MainProgram/L2201_Press2_SludgeValve - 4(XIC), 6(XIC)</i>		
OSC2201.AutoClose	1	BOOL
Press 2 Sludge Valve Auto Close Command		
<i>OSC2201.AutoClose - MainProgram/L2201_Press2_SludgeValve - *13(OTE)</i>		
OSC2201.AutoStop	0	BOOL
Press 2 Sludge Valve Auto Stop Command		
OSC2201.CloseCmd	0	BOOL
Press 2 Sludge Valve Close Command		
<i>OSC2201.CloseCmd - MainProgram/L2201_Press2_SludgeValve - 5(XIC), 7(XIC)</i>		
OSC2201.StopCmd	1	BOOL
Press 2 Sludge Valve Stop Command		
P1104		DG1 PLC_SH
Sludge Feed Pump 1		
Constant	No	
External Access:	Read/Write	
<i>P1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *(DG1)</i>		
P1104.EnableIn	1	BOOL
Sludge Feed Pump 1 Enable Input - System Defined Parameter		
P1104.EnableOut	1	BOOL
Sludge Feed Pump 1 Enable Output - System Defined Parameter		
P1104.Comm_Fault	1	BOOL
Sludge Feed Pump 1		
P1104.NetCtrl	1	BOOL
Sludge Feed Pump 1		
<i>P1104.NetCtrl - MainProgram/L1104_SludgeFeedPump1_VFD - *(OTE)</i>		
P1104.NetRef	0	BOOL
Sludge Feed Pump 1		
<i>P1104.NetRef - MainProgram/L1104_SludgeFeedPump1_VFD - *(OTE)</i>		
P1104.Ready	0	BOOL

P1104 (Continued)

Sludge Feed Pump 1		
<i>P1104.Ready - MainProgram/L1104_SludgeFeedPump1_VFD - 1(XIC)</i>		
P1104.Running	0	BOOL
Sludge Feed Pump 1		
<i>P1104.Running - MainProgram/L1104_SludgeFeedPump1_VFD - 3(XIC)</i>		
P1104.Direction	0	BOOL
Sludge Feed Pump 1		
P1104.Faulted	0	BOOL
Sludge Feed Pump 1		
<i>P1104.Faulted - MainProgram/L1104_SludgeFeedPump1_VFD - 4(XIC)</i>		
P1104.Warning	0	BOOL
Sludge Feed Pump 1		
P1104.At_Reference	0	BOOL
Sludge Feed Pump 1		
P1104.ZeroSpeed	0	BOOL
Sludge Feed Pump 1		
P1104.FluxReady	0	BOOL
Sludge Feed Pump 1		
P1104.Speed	0.0	REAL
Sludge Feed Pump 1		
P1104.Frequency	0.0	REAL
Sludge Feed Pump 1		
<i>P1104.Frequency - MainProgram/L1104_SludgeFeedPump1_VFD - 6(MOV)</i>		
P1104.Speed_RPM	0.0	REAL
Sludge Feed Pump 1		
P1104.Current	0.0	REAL
Sludge Feed Pump 1		
P1104.Torque	0.0	REAL
Sludge Feed Pump 1		
P1104.Power	0.0	REAL
Sludge Feed Pump 1		
P1104.Voltage	0.0	REAL
Sludge Feed Pump 1		
P1104.InputPower	0.0	REAL
Sludge Feed Pump 1		
P1104.DIN1	0	BOOL
Sludge Feed Pump 1		
P1104.DIN2	0	BOOL
Sludge Feed Pump 1		
P1104.DIN3	0	BOOL
Sludge Feed Pump 1		
P1104.DIN4	0	BOOL
Sludge Feed Pump 1		
P1104.DIN5	0	BOOL
Sludge Feed Pump 1		
P1104.DIN6	0	BOOL
Sludge Feed Pump 1		
P1104.DIN7	0	BOOL
Sludge Feed Pump 1		
P1104.DIN8	0	BOOL
Sludge Feed Pump 1		
<i>P1104.DIN8 - MainProgram/L1104_SludgeFeedPump1_VFD - 2(XIC)</i>		
P1104.DO1	0	BOOL
Sludge Feed Pump 1		
P1104.RO1	0	BOOL
Sludge Feed Pump 1		
P1104.RO2	0	BOOL
Sludge Feed Pump 1		
P1104.RO3	0	BOOL
Sludge Feed Pump 1		
P1104.Binary	0	DINT
Sludge Feed Pump 1		
P1104.FaultCode	0	DINT

P1104 (Continued)

Sludge Feed Pump 1		
P1104.FaultReset	0	BOOL
Sludge Feed Pump 1		
P1104.SpeedPercentFactor	100	DINT
Sludge Feed Pump 1		
P1104.FrequencyFactor	10	DINT
Sludge Feed Pump 1		
P1104.SpeedRPMFactor	1	DINT
Sludge Feed Pump 1		
P1104.CurrentFactor	10	DINT
Sludge Feed Pump 1		
P1104.TorqueFactor	10	DINT
Sludge Feed Pump 1		
P1104.PowerFactor	1	DINT
Sludge Feed Pump 1		
P1104.FwdCmd	0	BOOL
Sludge Feed Pump 1		
<i>P1104.FwdCmd - MainProgram/L1104_SludgeFeedPump1_VFD - *5(OTE)</i>		
P1104.RevCmd	0	BOOL
Sludge Feed Pump 1		
P1104.ReferenceFactor	10	DINT
Sludge Feed Pump 1 Speed Reference Scale Factor (10)		
P1104.SpeedReference	0.0	REAL
Sludge Feed Pump 1 RPM		
<i>P1104.SpeedReference - MainProgram/L1104_SludgeFeedPump1_VFD - *7(MOV)</i>		

P1204 DG1 PLC_SH

Sludge Feed Pump 2		
Constant	No	
External Access:	Read/Write	
<i>P1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *0(DG1)</i>		
P1204.EnableIn	1	BOOL
Sludge Feed Pump 2 Enable Input - System Defined Parameter		
P1204.EnableOut	1	BOOL
Sludge Feed Pump 2 Enable Output - System Defined Parameter		
P1204.Comm_Fault	1	BOOL
Sludge Feed Pump 2		
P1204.NetCtrl	1	BOOL
Sludge Feed Pump 2		
<i>P1204.NetCtrl - MainProgram/L1204_SludgeFeedPump2_VFD - *0(OTE)</i>		
P1204.NetRef	0	BOOL
Sludge Feed Pump 2		
<i>P1204.NetRef - MainProgram/L1204_SludgeFeedPump2_VFD - *1(OTE)</i>		
P1204.Ready	0	BOOL
Sludge Feed Pump 2		
<i>P1204.Ready - MainProgram/L1204_SludgeFeedPump2_VFD - 1(XIC)</i>		
P1204.Running	0	BOOL
Sludge Feed Pump 2		
<i>P1204.Running - MainProgram/L1204_SludgeFeedPump2_VFD - 3(XIC)</i>		
P1204.Direction	0	BOOL
Sludge Feed Pump 2		
P1204.Faulted	0	BOOL
Sludge Feed Pump 2		
<i>P1204.Faulted - MainProgram/L1204_SludgeFeedPump2_VFD - 4(XIC)</i>		
P1204.Warning	0	BOOL
Sludge Feed Pump 2		
P1204.At_Reference	0	BOOL
Sludge Feed Pump 2		
P1204.ZeroSpeed	0	BOOL
Sludge Feed Pump 2		
P1204.FluxReady	0	BOOL
Sludge Feed Pump 2		
P1204.Speed	0.0	REAL

P1204 (Continued)

Sludge Feed Pump 2		
P1204.Frequency	0.0	REAL
Sludge Feed Pump 2		
<i>P1204.Frequency - MainProgram/L1204_SludgeFeedPump2_VFD - 6(MOV)</i>		
P1204.Speed_RPM	0.0	REAL
Sludge Feed Pump 2		
P1204.Current	0.0	REAL
Sludge Feed Pump 2		
P1204.Torque	0.0	REAL
Sludge Feed Pump 2		
P1204.Power	0.0	REAL
Sludge Feed Pump 2		
P1204.Voltage	0.0	REAL
Sludge Feed Pump 2		
P1204.InputPower	0.0	REAL
Sludge Feed Pump 2		
P1204.DIN1	0	BOOL
Sludge Feed Pump 2		
P1204.DIN2	0	BOOL
Sludge Feed Pump 2		
P1204.DIN3	0	BOOL
Sludge Feed Pump 2		
P1204.DIN4	0	BOOL
Sludge Feed Pump 2		
P1204.DIN5	0	BOOL
Sludge Feed Pump 2		
P1204.DIN6	0	BOOL
Sludge Feed Pump 2		
P1204.DIN7	0	BOOL
Sludge Feed Pump 2		
P1204.DIN8	0	BOOL
Sludge Feed Pump 2		
<i>P1204.DIN8 - MainProgram/L1204_SludgeFeedPump2_VFD - 2(XIC)</i>		
P1204.DO1	0	BOOL
Sludge Feed Pump 2		
P1204.RO1	0	BOOL
Sludge Feed Pump 2		
P1204.RO2	0	BOOL
Sludge Feed Pump 2		
P1204.RO3	0	BOOL
Sludge Feed Pump 2		
P1204.Binary	0	DINT
Sludge Feed Pump 2		
P1204.FaultCode	0	DINT
Sludge Feed Pump 2		
P1204.FaultReset	0	BOOL
Sludge Feed Pump 2		
P1204.SpeedPercentFactor	100	DINT
Sludge Feed Pump 2		
P1204.FrequencyFactor	10	DINT
Sludge Feed Pump 2		
P1204.SpeedRPMFactor	1	DINT
Sludge Feed Pump 2		
P1204.CurrentFactor	10	DINT
Sludge Feed Pump 2		
P1204.TorqueFactor	10	DINT
Sludge Feed Pump 2		
P1204.PowerFactor	1	DINT
Sludge Feed Pump 2		
P1204.FwdCmd	0	BOOL
Sludge Feed Pump 2		
<i>P1204.FwdCmd - MainProgram/L1204_SludgeFeedPump2_VFD - *5(OTE)</i>		
P1204.RevCmd	0	BOOL

P1204 (Continued)

Sludge Feed Pump 2		
P1204.ReferenceFactor	10	DINT
Sludge Feed Pump 2 Speed Reference Scale Factor (10)		
P1204.SpeedReference	0.0	REAL
Sludge Feed Pump 2 RPM		
<i>P1204.SpeedReference - MainProgram/L1204_SludgeFeedPump2_VFD - *7(MOV)</i>		

PAH0000 ALRM PLC_SH

Panel High Temperature Alarm		
Constant	No	
External Access:	Read/Write	
<i>PAH0000 - MainProgram/L0000_Power - *6(ALRM)</i>		
PAH0000.EnableIn	0	BOOL
Panel High Temperature Alarm Enable Input - System Defined Parameter		
PAH0000.EnableOut	0	BOOL
Panel High Temperature Alarm Enable Output - System Defined Parameter		
PAH0000.Latched	0	BOOL
Panel High Temperature Alarm		
PAH0000.OperReset	0	BOOL
Panel High Temperature Alarm		
PAH0000.ProgReset	0	BOOL
Panel High Temperature Alarm		
PAH0000.OperDisable	0	BOOL
Panel High Temperature Alarm		
PAH0000.OperEnable	0	BOOL
Panel High Temperature Alarm		
PAH0000.AlarmCountReset	0	BOOL
Panel High Temperature Alarm Set to 1 to reset alarm count		
PAH0000.InAlarm	0	BOOL
Panel High Temperature Alarm		
PAH0000.Disabled	0	BOOL
Panel High Temperature Alarm		
PAH0000.MinDurationPRE	5000	DINT
Panel High Temperature Alarm		
PAH0000.MinDurationACC	0	DINT
Panel High Temperature Alarm		
PAH0000.AlarmCount	0	DINT
Panel High Temperature Alarm		
PAH0000.InAlarmDate	0	DINT
Panel High Temperature Alarm		
PAH0000.InAlarmTime	0	DINT
Panel High Temperature Alarm		
PAH0000.RetToNormalDate	0	DINT
Panel High Temperature Alarm		
PAH0000.RetToNormalTime	0	DINT
Panel High Temperature Alarm		
PAH0000.AlarmCountResetDate	0	DINT
Panel High Temperature Alarm		
PAH0000.AlarmCountResetTime	0	DINT
Panel High Temperature Alarm		

PAH1104 ALRM PLC_SH

Sludge Feed Pump 1 Discharge Pressure Alarm High		
Constant	No	
External Access:	Read/Write	
<i>PAH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *13(ALRM)</i>		
PAH1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High Enable Input - System Defined Parameter		
PAH1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High Enable Output - System Defined Parameter		
PAH1104.Latched	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.OperReset	0	BOOL

PAH1104 (Continued)

Sludge Feed Pump 1 Discharge Pressure Alarm High		
<i>PAH1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
PAH1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
<i>PAH1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
PAH1104.Disabled	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		

PAH1204 ALRM PLC_SH

Sludge Feed Pump 2 Discharge Pressure Alarm High		
Constant	No	
External Access:	Read/Write	
<i>PAH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *13(ALRM)</i>		
PAH1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High Enable Input - System Defined Parameter		
PAH1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High Enable Output - System Defined Parameter		
PAH1204.Latched	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.OperReset	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
<i>PAH1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
PAH1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
<i>PAH1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
PAH1204.Disabled	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		

PAH1204 (Continued)

PAH1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		

PAH3101 ALRM PLC_SH

Aeration Blower 1 Discharge Pressure Alarm High		
Constant	No	
External Access:	Read/Write	
<i>PAH3101 - MainProgram/L3101_AerationBlower1_VFD - *11(ALRM)</i>		
PAH3101.EnableIn	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High Enable Input - System Defined Parameter		
PAH3101.EnableOut	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High Enable Output - System Defined Parameter		
PAH3101.Latched	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.OperReset	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
<i>PAH3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
PAH3101.ProgReset	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.OperDisable	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.OperEnable	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH3101.InAlarm	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
<i>PAH3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
PAH3101.Disabled	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.MinDurationPRE	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.MinDurationACC	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCount	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.InAlarmDate	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.InAlarmTime	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.RetToNormalDate	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.RetToNormalTime	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		

PAH3103		ALRM	PLC_SH
Aeration Blower Pressure Alarm High			
Constant	No		
External Access:	Read/Write		
<i>PAH3103 - MainProgram/L3103_AerBlower_Pressure - *2(ALRM)</i>			
PAH3103.EnableIn	0	BOOL	
Aeration Blower Pressure Alarm High Enable Input - System Defined Parameter			
PAH3103.EnableOut	0	BOOL	
Aeration Blower Pressure Alarm High Enable Output - System Defined Parameter			
PAH3103.Latched	1	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.OperReset	0	BOOL	
Aeration Blower Pressure Alarm High			
<i>PAH3103.OperReset - MainProgram/L3103_AerBlower_Pressure - *4(OTL)</i>			
PAH3103.ProgReset	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.OperDisable	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.OperEnable	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCountReset	0	BOOL	
Aeration Blower Pressure Alarm High Set to 1 to reset alarm count			
PAH3103.InAlarm	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.Disabled	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.MinDurationPRE	30000	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.MinDurationACC	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCount	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.InAlarmDate	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.InAlarmTime	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.RetToNormalDate	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.RetToNormalTime	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCountResetDate	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCountResetTime	0	DINT	
Aeration Blower Pressure Alarm High			

PAH3201		ALRM	PLC_SH
Aeration Blower 2 Discharge Pressure Alarm High			
Constant	No		
External Access:	Read/Write		
<i>PAH3201 - MainProgram/L3201_AerationBlower2_VFD - *11(ALRM)</i>			
PAH3201.EnableIn	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High Enable Input - System Defined Parameter			
PAH3201.EnableOut	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High Enable Output - System Defined Parameter			
PAH3201.Latched	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High			
PAH3201.OperReset	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High			
<i>PAH3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
PAH3201.ProgReset	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High			
PAH3201.OperDisable	0	BOOL	
Aeration Blower 2 Discharge Pressure Alarm High			
PAH3201.OperEnable	0	BOOL	

PAH3201 (Continued)

Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH3201.InAlarm	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High		
<i>PAH3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
PAH3201.Disabled	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.MinDurationPRE	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.MinDurationACC	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCount	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.InAlarmDate	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.InAlarmTime	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.RetToNormalDate	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.RetToNormalTime	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCountResetDate	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCountResetTime	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		

PAL1104 ALRM PLC_SH

Sludge Feed Pump 1		
Section: Pressure Alarm Low	No	
External Access:	Read/Write	
<i>PAL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *12(ALRM)</i>		
PAL1104.EnableIn	0	BOOL
Sludge Feed Pump 1		
PAL1104.EnableOut	0	BOOL
Sludge Feed Pump 1		
PAL1104.PatchOut	0	BOOL
Sludge Feed Pump 1		
PAL1104.OperReset	0	BOOL
Sludge Feed Pump 1		
<i>PAL1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
PAL1104.ProgReset	0	BOOL
Sludge Feed Pump 1		
PAL1104.OperDisable	0	BOOL
Sludge Feed Pump 1		
PAL1104.OperEnable	0	BOOL
Sludge Feed Pump 1		
PAL1104.PressureCountReset	0	BOOL
Sludge Feed Pump 1		
PAL1104.PressureAlarm	0	BOOL
Sludge Feed Pump 1		
<i>PAL1104.PressureAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
PAL1104.Disabled	0	BOOL
Sludge Feed Pump 1		
PAL1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1		
PAL1104.MinDurationACC	0	DINT
Sludge Feed Pump 1		
PAL1104.PressureCount	0	DINT
Sludge Feed Pump 1		
PAL1104.PressureDate	0	DINT
Sludge Feed Pump 1		

PAL1104 (Continued)		
Sludge Feed Pump 1		
PAL1104.InAlarmTime	0	DINT
Sludge Feed Pump 1		
PAL1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1		
PAL1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1		
PAL1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1		
PAL1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1		
Suction Pressure Alarm Low		
PAL1204	ALRM	PLC_SH
Sludge Feed Pump 2 Suction Pressure Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>PAL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *12(ALRM)</i>		
PAL1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low Enable Input - System Defined Parameter		
PAL1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low Enable Output - System Defined Parameter		
PAL1204.Latched	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.OperReset	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
<i>PAL1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
PAL1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low Set to 1 to reset alarm count		
PAL1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
<i>PAL1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
PAL1204.Disabled	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL3101	ALRM	PLC_SH
Aeration Blower 1 Suction Pressure Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>PAL3101 - MainProgram/L3101_AerationBlower1_VFD - *10(ALRM)</i>		

PAL3101 (Continued)

PAL3101.EnableIn	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low Enable Input - System Defined Parameter		
PAL3101.EnableOut	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low Enable Output - System Defined Parameter		
PAL3101.Latched	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.OperReset	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
<i>PAL3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
PAL3101.ProgReset	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.OperDisable	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.OperEnable	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low Set to 1 to reset alarm count		
PAL3101.InAlarm	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
<i>PAL3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
PAL3101.Disabled	0	BOOL
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.MinDurationPRE	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.MinDurationACC	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.AlarmCount	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.InAlarmDate	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.InAlarmTime	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.RetToNormalDate	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.RetToNormalTime	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		
PAL3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Suction Pressure Alarm Low		

PAL3103 ALRM PLC_SH

Aeration Blower Pressure Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>PAL3103 - MainProgram/L3103_AerBlower_Pressure - *3(ALRM)</i>		
PAL3103.EnableIn	0	BOOL
Aeration Blower Pressure Alarm Low Enable Input - System Defined Parameter		
PAL3103.EnableOut	0	BOOL
Aeration Blower Pressure Alarm Low Enable Output - System Defined Parameter		
PAL3103.Latched	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.OperReset	0	BOOL
Aeration Blower Pressure Alarm Low		
<i>PAL3103.OperReset - MainProgram/L3103_AerBlower_Pressure - *4(OTL)</i>		
PAL3103.ProgReset	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.OperDisable	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.OperEnable	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCountReset	0	BOOL
Aeration Blower Pressure Alarm Low Set to 1 to reset alarm count		

PAL3103 (Continued)		
PAL3103.InAlarm	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.Disabled	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.MinDurationPRE	30000	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.MinDurationACC	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCount	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.InAlarmDate	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.InAlarmTime	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.RetToNormalDate	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.RetToNormalTime	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCountResetDate	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCountResetTime	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3201		ALRM
Aeration Blower 2 Suction Pressure Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>PAL3201 - MainProgram/L3201_AerationBlower2_VFD - *10(ALRM)</i>		
PAL3201.EnableIn	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low Enable Input - System Defined Parameter		
PAL3201.EnableOut	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low Enable Output - System Defined Parameter		
PAL3201.Latched	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.OperReset	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
<i>PAL3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
PAL3201.ProgReset	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.OperDisable	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.OperEnable	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low Set to 1 to reset alarm count		
PAL3201.InAlarm	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
<i>PAL3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
PAL3201.Disabled	0	BOOL
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.MinDurationPRE	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.MinDurationACC	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.AlarmCount	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.InAlarmDate	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.InAlarmTime	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.RetToNormalDate	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		
PAL3201.RetToNormalTime	0	DINT
Aeration Blower 2 Suction Pressure Alarm Low		

PLC_SH

PAL3201 (Continued)			
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PAT3103		ALRM	PLC_SH
Aeration Blower Pressure Signal Fail			
Constant	No		
External Access:	Read/Write		
<i>PAT3103 - MainProgram/L3103_AerBlower_Pressure - *1(ALRM)</i>			
PAT3103.EnableIn	0	BOOL	
Aeration Blower Pressure Signal Fail Enable Input - System Defined Parameter			
PAT3103.EnableOut	0	BOOL	
Aeration Blower Pressure Signal Fail Enable Output - System Defined Parameter			
PAT3103.Latched	1	BOOL	
Aeration Blower Pressure Signal Fail			
PAT3103.OperReset	0	BOOL	
Aeration Blower Pressure Signal Fail			
<i>PAT3103.OperReset - MainProgram/L3103_AerBlower_Pressure - *4(OTL)</i>			
PAT3103.ProgReset	0	BOOL	
Aeration Blower Pressure Signal Fail			
PAT3103.OperDisable	0	BOOL	
Aeration Blower Pressure Signal Fail			
PAT3103.OperEnable	0	BOOL	
Aeration Blower Pressure Signal Fail			
PAT3103.AlarmCountReset	0	BOOL	
Aeration Blower Pressure Signal Fail Set to 1 to reset alarm count			
PAT3103.InAlarm	0	BOOL	
Aeration Blower Pressure Signal Fail			
<i>PAT3103.InAlarm - MainProgram/L3103_AerBlower_Pressure - 2(XIO), 3(XIO)</i>			
PAT3103.Disabled	0	BOOL	
Aeration Blower Pressure Signal Fail			
PAT3103.MinDurationPRE	30000	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.MinDurationACC	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.AlarmCount	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.InAlarmDate	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.InAlarmTime	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.RetToNormalDate	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.RetToNormalTime	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.AlarmCountResetDate	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.AlarmCountResetTime	0	DINT	
Aeration Blower Pressure Signal Fail			
PCH3103	1000.0	REAL	PLC_SH
Aeration Blower Pressure Alarm High SP			
Constant	No		
External Access:	Read/Write		
<i>PCH3103 - MainProgram/L3103_AerBlower_Pressure - 2(GRT)</i>			
PCL3103	0.0	REAL	PLC_SH
Aeration Blower Pressure Alarm Low SP			
Constant	No		
External Access:	Read/Write		
<i>PCL3103 - MainProgram/L3103_AerBlower_Pressure - 3(LES)</i>			

PI3103		SCP	PLC_SH
Aeration Blower Pressure			
Constant	No		
External Access:	Read/Write		
<i>PI3103 - MainProgram/L3103_AerBlower_Pressure - *0(SCP)</i>			
PI3103.EnableIn	1	BOOL	
Aeration Blower Pressure Enable Input - System Defined Parameter			
PI3103.EnableOut	1	BOOL	
Aeration Blower Pressure Enable Output - System Defined Parameter			
PI3103.Input	0.0	REAL	
Aeration Blower Pressure			
<i>PI3103.Input - MainProgram/L3103_AerBlower_Pressure - *0(MOV), 1(LIM)</i>			
PI3103.InputMin	4000.0	REAL	
Aeration Blower Pressure			
PI3103.InputMax	20000.0	REAL	
Aeration Blower Pressure			
PI3103.OutputMin	0.0	REAL	
Aeration Blower Pressure			
PI3103.OutputMax	100.0	REAL	
Aeration Blower Pressure			
PI3103.Output	0.0	REAL	
Aeration Blower Pressure			
<i>PI3103.Output - MainProgram/L3103_AerBlower_Pressure - 2(GRT), 3(LES)</i>			
PI3103.ClampMin	1	BOOL	
Aeration Blower Pressure			
PI3103.ClampMax	1	BOOL	
Aeration Blower Pressure			
PLC_KI	1041	DINT	PLC_SH
PLC Time			
Constant	No		
External Access:	Read/Write		
<i>PLC_KI - MainProgram/MainRoutine - *5(CPT)</i>			
PLC_PRESS1		DINT[10]	PLC_SH
DINT Data Read from PLC-PRESS-1			
Constant	No		
External Access:	Read/Write		
PLC_PRESS1[0]	0	DINT	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[0] - MainProgram/Communications - *5(MSG)</i>			
PLC_PRESS1[0].0	0	BOOL	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[0].0 - MainProgram/Communications - 7(XIC)</i>			
PLC_PRESS1[0].1	0	BOOL	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[0].1 - MainProgram/Communications - 8(XIC)</i>			
PLC_PRESS1[0].2	0	BOOL	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[0].2 - MainProgram/Communications - 9(XIC)</i>			
PLC_PRESS1[0].3	0	BOOL	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[0].3 - MainProgram/Communications - 10(XIC)</i>			
PLC_PRESS1[1]	0	DINT	
DINT Data Read from PLC-PRESS-1			
<i>PLC_PRESS1[1] - MainProgram/Communications - 11(MOV)</i>			
PLC_PRESS1[2]	0	DINT	
DINT Data Read from PLC-PRESS-1			
PLC_PRESS1[3]	0	DINT	
DINT Data Read from PLC-PRESS-1			
PLC_PRESS1[4]	602	DINT	
DINT Data Read from PLC-PRESS-1			
PLC_PRESS1[5]	6132	DINT	
DINT Data Read from PLC-PRESS-1			

PLC_PRESS1 (Continued)		
PLC_PRESS1[6]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[7]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[8]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[9]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS2		DINT[10] PLC_SH
DINT Data Read from PLC-PRESS-2		
Constant	No	
External Access:	Read/Write	
PLC_PRESS2[0]	0	DINT
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0] - MainProgram/Communications - *20(MSG)</i>		
PLC_PRESS2[0].0	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].0 - MainProgram/Communications - 22(XIC)</i>		
PLC_PRESS2[0].1	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].1 - MainProgram/Communications - 23(XIC)</i>		
PLC_PRESS2[0].2	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].2 - MainProgram/Communications - 24(XIC)</i>		
PLC_PRESS2[0].3	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].3 - MainProgram/Communications - 25(XIC)</i>		
PLC_PRESS2[1]	0	DINT
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[1] - MainProgram/Communications - 26(MOV)</i>		
PLC_PRESS2[2]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[3]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[4]	602	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[5]	6132	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[6]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[7]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[8]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[9]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_SH_PRESS1		DINT[10] PLC_SH
DINT Data to be Read PRESS1		
Constant	No	
External Access:	Read/Write	
PLC_SH_PRESS1[0]	20	DINT
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0] - MainProgram/Communications - 6(MSG)</i>		
PLC_SH_PRESS1[0].0	0	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].0 - MainProgram/Communications - *0(OTE)</i>		
PLC_SH_PRESS1[0].1	0	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].1 - MainProgram/Communications - *1(OTE)</i>		
PLC_SH_PRESS1[0].2	1	BOOL
DINT Data to be Read PRESS1		

PLC_SH_PRESS1 (Continued)

<i>PLC_SH_PRESS1[0].2 - MainProgram/Communications - *2(OTE)</i>		
PLC_SH_PRESS1[0].3	0	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].3 - MainProgram/Communications - *3(OTE)</i>		
PLC_SH_PRESS1[0].4	1	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].4 - MainProgram/Communications - *4(OTE)</i>		
PLC_SH_PRESS1[1]	87	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[2]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[3]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[4]	1175	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[5]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[6]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[7]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[8]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[9]	0	DINT
DINT Data to be Read PRESS1		

PLC_SH_PRESS2 DINT[10] PLC_SH

DINT Data to be Read PRESS2		
Constant	No	
External Access:	Read/Write	
PLC_SH_PRESS2[0]	21	DINT
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0] - MainProgram/Communications - 21(MSG)</i>		
PLC_SH_PRESS2[0].0	1	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].0 - MainProgram/Communications - *15(OTE)</i>		
PLC_SH_PRESS2[0].1	0	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].1 - MainProgram/Communications - *16(OTE)</i>		
PLC_SH_PRESS2[0].2	1	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].2 - MainProgram/Communications - *17(OTE)</i>		
PLC_SH_PRESS2[0].3	0	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].3 - MainProgram/Communications - *18(OTE)</i>		
PLC_SH_PRESS2[0].4	1	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].4 - MainProgram/Communications - *19(OTE)</i>		
PLC_SH_PRESS2[1]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[2]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[3]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[4]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[5]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[6]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[7]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[8]	0	DINT

PLC_SH_PRESS2 (Continued)			
DINT Data to be Read PRESS2			
PLC_SH_PRESS2[9]	0	DINT	
DINT Data to be Read PRESS2			
PLC_SH_SSPS		INT[50]	PLC_SH
Constant	No		
External Access:	Read/Write		
PLC_SH_SSPS[0].0	0	BOOL	
<i>PLC_SH_SSPS[0].0 - MainProgram/Communications - *30(OTE)</i>			
PLC_SH_SSPS[10]	15077	INT	
<i>PLC_SH_SSPS[10] - MainProgram/Communications - *31(MOV)</i>			
PLC_SH_SSPS[11]	0	INT	
<i>PLC_SH_SSPS[11] - MainProgram/Communications - *32(MOV)</i>			
PLC_SSPS		INT[50]	PLC_SH
Constant	No		
External Access:	Read/Write		
PLC_SSPS[0]	0	INT	
<i>PLC_SSPS[0] - MainProgram/Communications - *33(MSG)</i>			
PLC_SSPS[0].0	0	BOOL	
<i>PLC_SSPS[0].0 - MainProgram/Communications - 34(XIC)</i>			
PLC_SSPS[0].1	0	BOOL	
<i>PLC_SSPS[0].1 - MainProgram/Communications - 35(XIC)</i>			
PLC_SSPS[0].2	0	BOOL	
<i>PLC_SSPS[0].2 - MainProgram/Communications - 36(XIC)</i>			
PLC_SSPS[0].3	0	BOOL	
<i>PLC_SSPS[0].3 - MainProgram/Communications - 37(XIC)</i>			
PLC_SSPS[0].4	0	BOOL	
<i>PLC_SSPS[0].4 - MainProgram/Communications - 38(XIC)</i>			
PLC_SSPS[10]	27345	INT	
<i>PLC_SSPS[10] - MainProgram/Communications - 39(EQU), 40(MOV), 40(NEQ)</i>			
PLC_SSPSCommSample	27345	INT	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PLC_SSPSCommSample - MainProgram/Communications - *40(MOV), 39(EQU), 40(NEQ)</i>			
PRESS1_COMMTIMER1		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_COMMTIMER1 - MainProgram/Communications - *12(TON)</i>			
PRESS1_COMMTIMER1.DN	0	BOOL	
<i>PRESS1_COMMTIMER1.DN - MainProgram/Communications - 12(XIC)</i>			
PRESS1_COMMTIMER2		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_COMMTIMER2 - MainProgram/Communications - *12(TON)</i>			
PRESS1_COMMTIMER2.DN	1	BOOL	
<i>PRESS1_COMMTIMER2.DN - MainProgram/Communications - 12(XIC)</i>			
PRESS1_ConveyorRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_ConveyorRunCMD - MainProgram/Communications - *9(OTE)</i>			
<i>PRESS1_ConveyorRunCMD - MainProgram/L2106_ScrewPressConveyor1 - 11(XIC)</i>			
PRESS1_HeartBeat	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_HeartBeat - MainProgram/Communications - *7(OTE), 12(XIC), 12(XIO)</i>			
PRESS1_READY	0	BOOL	PLC_SH

PRESS1_READY (Continued)			
Constant	No		
External Access:	Read/Write		
<i>PRESS1_READY - MainProgram/Communications - *10(OTE)</i>			
<i>PRESS1_READY - MainProgram/L1100_PressControl - 3(XIO)</i>			
PRESS1_SludgePumpRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_SludgePumpRunCMD - MainProgram/Communications - *8(OTE), 30(XIC), 32(XIC), 32(XIO)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>			
PRESS1_SludgePumpSpeedCMD	0	DINT	PLC_SH
Press 1 Sludge Pump Speed Command (HZ 1 implied decimal)			
Constant	No		
External Access:	Read/Write		
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/Communications - *11(MOV), 32(MOV)</i>			
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>			
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>			
PRESS2_COMMTIMER1		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_COMMTIMER1 - MainProgram/Communications - *27(TON)</i>			
PRESS2_COMMTIMER1.DN	0	BOOL	
<i>PRESS2_COMMTIMER1.DN - MainProgram/Communications - 27(XIC)</i>			
PRESS2_COMMTIMER2		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_COMMTIMER2 - MainProgram/Communications - *27(TON)</i>			
PRESS2_COMMTIMER2.DN	1	BOOL	
<i>PRESS2_COMMTIMER2.DN - MainProgram/Communications - 27(XIC)</i>			
PRESS2_ConveyorRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_ConveyorRunCMD - MainProgram/Communications - *24(OTE)</i>			
<i>PRESS2_ConveyorRunCMD - MainProgram/L2206_ScrewPressConveyor2 - 11(XIC)</i>			
PRESS2_HeartBeat	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_HeartBeat - MainProgram/Communications - *22(OTE), 27(XIC), 27(XIO)</i>			
PRESS2_READY	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_READY - MainProgram/Communications - *25(OTE)</i>			
<i>PRESS2_READY - MainProgram/L1100_PressControl - 4(XIO)</i>			
PRESS2_SludgePumpRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_SludgePumpRunCMD - MainProgram/Communications - *23(OTE), 30(XIC), 32(XIC), 32(XIO)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>			
PRESS2_SludgePumpSpeedCMD	0	DINT	PLC_SH
Press 2 Sludge Pump Speed Command (HZ 1 implied decimal)			
Constant	No		

PRESS2_SludgePumpSpeedCMD (Continued)

External Access: Read/Write
 PRESS2_SludgePumpSpeedCMD - MainProgram/Communications - *26(MOV), 32(MOV)
 PRESS2_SludgePumpSpeedCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)
 PRESS2_SludgePumpSpeedCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)

<input type="checkbox"/>	PSH000	0	BOOL	PLC_SH
	Panel High Temperature Switch			
	Constant	No		
	External Access:	Read/Write		
	<i>PSH000 - MainProgram/L0000_Power - *0(OTE), 6(XIC)</i>			
<input type="checkbox"/>	PSH1104	0	BOOL	PLC_SH
	Sludge Feed Pump 1			
	Pressure Switch High	No		
	External Access:	Read/Write		
	<i>PSH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 13(XIC)</i>			
<input type="checkbox"/>	PSH1204	0	BOOL	PLC_SH
	Sludge Feed Pump 2 Pressure Switch High			
	Constant	No		
	External Access:	Read/Write		
	<i>PSH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 13(XIC)</i>			
<input type="checkbox"/>	PSH3101	0	BOOL	PLC_SH
	Aeration Blower 1			
	Pressure Switch High	No		
	External Access:	Read/Write		
	<i>PSH3101 - MainProgram/L3101_AerationBlower1_VFD - 11(XIC)</i>			
<input type="checkbox"/>	PSH3201	0	BOOL	PLC_SH
	Aeration Blower 2			
	Pressure Switch High	No		
	External Access:	Read/Write		
	<i>PSH3201 - MainProgram/L3201_AerationBlower2_VFD - 11(XIC)</i>			
<input type="checkbox"/>	PSL1104	0	BOOL	PLC_SH
	Sludge Feed Pump 1 Pressure Switch Low			
	Constant	No		
	External Access:	Read/Write		
	<i>PSL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 12(XIC)</i>			
<input type="checkbox"/>	PSL1204	0	BOOL	PLC_SH
	Sludge Feed Pump 2 Pressure Switch Low			
	Constant	No		
	External Access:	Read/Write		
	<i>PSL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 12(XIC)</i>			
<input type="checkbox"/>	PSL3101	0	BOOL	PLC_SH
	Aeration Blower 1 Pressure Switch Low			
	Constant	No		
	External Access:	Read/Write		
	<i>PSL3101 - MainProgram/L3101_AerationBlower1_VFD - 10(XIC)</i>			
<input type="checkbox"/>	PSL3201	0	BOOL	PLC_SH
	Aeration Blower 2 Pressure Switch Low			
	Constant	No		
	External Access:	Read/Write		
	<i>PSL3201 - MainProgram/L3201_AerationBlower2_VFD - 10(XIC)</i>			
<input type="checkbox"/>	SAN1104		ALRM	PLC_SH
	Sludge Feed Pump 1 Speed Fail			
	Constant	No		
	External Access:	Read/Write		

SAN1104 (Continued)

*SAN1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *14(ALRM)*

SAN1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Speed Fail Enable Input - System Defined Parameter		
SAN1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Speed Fail Enable Output - System Defined Parameter		
SAN1104.Latched	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.OperReset	0	BOOL
Sludge Feed Pump 1 Speed Fail		
<i>SAN1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
SAN1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Speed Fail Set to 1 to reset alarm count		
SAN1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.Disabled	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.MinDurationPRE	60000	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Speed Fail		

SAN1204 ALRM PLC_SH

Sludge Feed Pump 2 Speed Fail

Constant No

External Access: Read/Write

*SAN1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *14(ALRM)*

SAN1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Speed Fail Enable Input - System Defined Parameter		
SAN1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Speed Fail Enable Output - System Defined Parameter		
SAN1204.Latched	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.OperReset	0	BOOL
Sludge Feed Pump 2 Speed Fail		
<i>SAN1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
SAN1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Speed Fail Set to 1 to reset alarm count		

SAN1204 (Continued)		
SAN1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.Disabled	0	BOOL
Sludge Feed Pump 2 Speed Fail		
SAN1204.MinDurationPRE	60000	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.RefToNormalDate	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.RefToNormalTime	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Speed Fail		
SAN3101		
Aeration Blower 1 Speed Fail		ALRM
Constant	No	
External Access:	Read/Write	
<i>SAN3101 - MainProgram/L3101_AerationBlower1_VFD - *12(ALRM)</i>		
SAN3101.EnableIn	0	BOOL
Aeration Blower 1 Speed Fail Enable Input - System Defined Parameter		
SAN3101.EnableOut	0	BOOL
Aeration Blower 1 Speed Fail Enable Output - System Defined Parameter		
SAN3101.Latched	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.OperReset	0	BOOL
Aeration Blower 1 Speed Fail		
<i>SAN3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
SAN3101.ProgReset	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.OperDisable	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.OperEnable	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Speed Fail Set to 1 to reset alarm count		
SAN3101.InAlarm	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.Disabled	0	BOOL
Aeration Blower 1 Speed Fail		
SAN3101.MinDurationPRE	60000	DINT
Aeration Blower 1 Speed Fail		
SAN3101.MinDurationACC	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.AlarmCount	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.InAlarmDate	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.InAlarmTime	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.RefToNormalDate	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.RefToNormalTime	0	DINT
Aeration Blower 1 Speed Fail		

PLC_SH

SAN3101 (Continued)		
SAN3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Speed Fail		
SAN3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Speed Fail		
SAN3201		ALRM PLC_SH
Aeration Blower 2 Speed Fail		
Constant	No	
External Access:	Read/Write	
<i>SAN3201 - MainProgram/L3201_AerationBlower2_VFD - *12(ALRM)</i>		
SAN3201.EnableIn	0	BOOL
Aeration Blower 2 Speed Fail Enable Input - System Defined Parameter		
SAN3201.EnableOut	0	BOOL
Aeration Blower 2 Speed Fail Enable Output - System Defined Parameter		
SAN3201.Latched	0	BOOL
Aeration Blower 2 Speed Fail		
SAN3201.OperReset	0	BOOL
Aeration Blower 2 Speed Fail		
<i>SAN3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
SAN3201.ProgReset	0	BOOL
Aeration Blower 2 Speed Fail		
SAN3201.OperDisable	0	BOOL
Aeration Blower 2 Speed Fail		
SAN3201.OperEnable	0	BOOL
Aeration Blower 2 Speed Fail		
SAN3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Speed Fail Set to 1 to reset alarm count		
SAN3201.InAlarm	0	BOOL
Aeration Blower 2 Speed Fail		
SAN3201.Disabled	0	BOOL
Aeration Blower 2 Speed Fail		
SAN3201.MinDurationPRE	60000	DINT
Aeration Blower 2 Speed Fail		
SAN3201.MinDurationACC	0	DINT
Aeration Blower 2 Speed Fail		
SAN3201.AlarmCount	0	DINT
Aeration Blower 2 Speed Fail		
SAN3201.InAlarmDate	0	DINT
Aeration Blower 2 Speed Fail		
SAN3201.InAlarmTime	0	DINT
Aeration Blower 2 Speed Fail		
SAN3201.RefToNormalDate	0	DINT
Aeration Blower 2 Speed Fail		
SAN3201.RefToNormalTime	0	DINT
Aeration Blower 2 Speed Fail		
SAN3201.AlarmCountResetDate	0	DINT
Aeration Blower 2 Speed Fail		
SAN3201.AlarmCountResetTime	0	DINT
Aeration Blower 2 Speed Fail		
SC1104		SCP PLC_SH
Sludge Feed Pump 1 Speed Control		
Constant	No	
External Access:	Read/Write	
<i>SC1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *7(SCP)</i>		
SC1104.EnableIn	1	BOOL
Sludge Feed Pump 1 Speed Control Enable Input - System Defined Parameter		
SC1104.EnableOut	1	BOOL
Sludge Feed Pump 1 Speed Control Enable Output - System Defined Parameter		
SC1104.Input	0.0	REAL
Sludge Feed Pump 1 Speed Control		
<i>SC1104.Input - MainProgram/L1104_SludgeFeedPump1_VFD - *23(MOV), 14(CMP)</i>		
SC1104.InputMin	0.0	REAL

SC1104 (Continued)			
Sludge Feed Pump 1 Speed Control			
SC1104.InputMax	60.0	REAL	
Sludge Feed Pump 1 Speed Control			
SC1104.OutputMin	0.0	REAL	
Sludge Feed Pump 1 Speed Control			
SC1104.OutputMax	1800.0	REAL	
Sludge Feed Pump 1 Speed Control			
SC1104.Output	0.0	REAL	
Sludge Feed Pump 1 Speed Control			
<i>SC1104.Output - MainProgram/L1104_SludgeFeedPump1_VFD - 7(MOV)</i>			
SC1104.ClampMin	1	BOOL	
Sludge Feed Pump 1 Speed Control			
SC1104.ClampMax	1	BOOL	
Sludge Feed Pump 1 Speed Control			
SC1104A	0.0	REAL	PLC_SH
Sludge Feed Pump 1 Manual Speed SP			
Constant	No		
External Access:	Read/Write		
<i>SC1104A - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>			
SC1204		SCP	PLC_SH
Sludge Feed Pump 2 Speed Control			
Constant	No		
External Access:	Read/Write		
<i>SC1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *7(SCP)</i>			
SC1204.EnableIn	1	BOOL	
Sludge Feed Pump 2 Speed Control Enable Input - System Defined Parameter			
SC1204.EnableOut	1	BOOL	
Sludge Feed Pump 2 Speed Control Enable Output - System Defined Parameter			
SC1204.Input	0.0	REAL	
Sludge Feed Pump 2 Speed Control			
<i>SC1204.Input - MainProgram/L1204_SludgeFeedPump2_VFD - *23(MOV), 14(CMP)</i>			
SC1204.InputMin	0.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.InputMax	60.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.OutputMin	0.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.OutputMax	1800.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.Output	0.0	REAL	
Sludge Feed Pump 2 Speed Control			
<i>SC1204.Output - MainProgram/L1204_SludgeFeedPump2_VFD - 7(MOV)</i>			
SC1204.ClampMin	1	BOOL	
Sludge Feed Pump 2 Speed Control			
SC1204.ClampMax	1	BOOL	
Sludge Feed Pump 2 Speed Control			
SC1204A	0.0	REAL	PLC_SH
Sludge Feed Pump 2 Manual Speed SP			
Constant	No		
External Access:	Read/Write		
<i>SC1204A - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>			
SC3101		SCP	PLC_SH
Aeration Blower 1 Speed Control			
Constant	No		
External Access:	Read/Write		
<i>SC3101 - MainProgram/L3101_AerationBlower1_VFD - *5(SCP)</i>			
SC3101.EnableIn	1	BOOL	
Aeration Blower 1 Speed Control Enable Input - System Defined Parameter			
SC3101.EnableOut	1	BOOL	

SC3101 (Continued)			
Aeration Blower 1 Speed Control Enable Output - System Defined Parameter			
SC3101.Input	41.99942	REAL	
Aeration Blower 1 Speed Control			
<i>SC3101.Input - MainProgram/L3101_AerationBlower1_VFD - 12(CMP)</i>			
SC3101.InputMin	0.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.InputMax	60.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.OutputMin	4000.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.OutputMax	20000.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.Output	15199.846	REAL	
Aeration Blower 1 Speed Control			
SC3101.ClampMin	1	BOOL	
Aeration Blower 1 Speed Control			
SC3101.ClampMax	1	BOOL	
Aeration Blower 1 Speed Control			
SC3201		SCP	PLC_SH
Aeration Blower 2 Speed Control			
Constant	No		
External Access:	Read/Write		
<i>SC3201 - MainProgram/L3201_AerationBlower2_VFD - *5(SCP)</i>			
SC3201.EnableIn	1	BOOL	
Aeration Blower 2 Speed Control Enable Input - System Defined Parameter			
SC3201.EnableOut	1	BOOL	
Aeration Blower 2 Speed Control Enable Output - System Defined Parameter			
SC3201.Input	41.99942	REAL	
Aeration Blower 2 Speed Control			
<i>SC3201.Input - MainProgram/L3201_AerationBlower2_VFD - 12(CMP)</i>			
SC3201.InputMin	0.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.InputMax	60.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.OutputMin	4000.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.OutputMax	20000.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.Output	15199.846	REAL	
Aeration Blower 2 Speed Control			
SC3201.ClampMin	1	BOOL	
Aeration Blower 2 Speed Control			
SC3201.ClampMax	1	BOOL	
Aeration Blower 2 Speed Control			
SCN1104	50.0	REAL	PLC_SH
Sludge Feed Pump 1 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 14(CMP)</i>			
SCN1204	50.0	REAL	PLC_SH
Sludge Feed Pump 2 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 14(CMP)</i>			
SCN3101	50.0	REAL	PLC_SH
Aeration Blower 1 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN3101 - MainProgram/L3101_AerationBlower1_VFD - 12(CMP)</i>			

SCN3201	50.0	REAL	PLC_SH
Aeration Blower 2 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN3201 - MainProgram/L3201_AerationBlower2_VFD - 12(CMP)</i>			
SI1104		SCP	PLC_SH
Sludge Feed Pump 1 Speed			
Constant	No		
External Access:	Read/Write		
<i>SI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *6(SCP)</i>			
SI1104.EnableIn	1	BOOL	
Sludge Feed Pump 1 Speed Enable Input - System Defined Parameter			
SI1104.EnableOut	1	BOOL	
Sludge Feed Pump 1 Speed Enable Output - System Defined Parameter			
SI1104.Input	0.0	REAL	
Sludge Feed Pump 1 Speed			
<i>SI1104.Input - MainProgram/L1104_SludgeFeedPump1_VFD - *6(MOV)</i>			
SI1104.InputMin	0.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.InputMax	60.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.OutputMin	0.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.OutputMax	60.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.Output	0.0	REAL	
Sludge Feed Pump 1 Speed			
<i>SI1104.Output - MainProgram/L1104_SludgeFeedPump1_VFD - 14(CMP)</i>			
SI1104.ClampMin	1	BOOL	
Sludge Feed Pump 1 Speed			
SI1104.ClampMax	1	BOOL	
Sludge Feed Pump 1 Speed			
SI1204		SCP	PLC_SH
Sludge Feed Pump 2 Speed			
Constant	No		
External Access:	Read/Write		
<i>SI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *6(SCP)</i>			
SI1204.EnableIn	1	BOOL	
Sludge Feed Pump 2 Speed Enable Input - System Defined Parameter			
SI1204.EnableOut	1	BOOL	
Sludge Feed Pump 2 Speed Enable Output - System Defined Parameter			
SI1204.Input	0.0	REAL	
Sludge Feed Pump 2 Speed			
<i>SI1204.Input - MainProgram/L1204_SludgeFeedPump2_VFD - *6(MOV)</i>			
SI1204.InputMin	0.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.InputMax	60.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.OutputMin	0.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.OutputMax	60.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.Output	0.0	REAL	
Sludge Feed Pump 2 Speed			
<i>SI1204.Output - MainProgram/L1204_SludgeFeedPump2_VFD - 14(CMP)</i>			
SI1204.ClampMin	1	BOOL	
Sludge Feed Pump 2 Speed			
SI1204.ClampMax	1	BOOL	
Sludge Feed Pump 2 Speed			
SI3101		SCP	PLC_SH
Aeration Blower 1 Speed			

SI3101 (Continued)				
Constant	No			
External Access:	Read/Write			
<i>SI3101 - MainProgram/L3101_AerationBlower1_VFD - *4(SCP)</i>				
SI3101.EnableIn	1		BOOL	
Aeration Blower 1 Speed Enable Input - System Defined Parameter				
SI3101.EnableOut	1		BOOL	
Aeration Blower 1 Speed Enable Output - System Defined Parameter				
SI3101.Input	0.0		REAL	
Aeration Blower 1 Speed				
SI3101.InputMin	4000.0		REAL	
Aeration Blower 1 Speed				
SI3101.InputMax	20000.0		REAL	
Aeration Blower 1 Speed				
SI3101.OutputMin	0.0		REAL	
Aeration Blower 1 Speed				
SI3101.OutputMax	60.0		REAL	
Aeration Blower 1 Speed				
SI3101.Output	0.0		REAL	
Aeration Blower 1 Speed				
<i>SI3101.Output - MainProgram/L3101_AerationBlower1_VFD - 12(CMP)</i>				
SI3101.ClampMin	1		BOOL	
Aeration Blower 1 Speed				
SI3101.ClampMax	1		BOOL	
Aeration Blower 1 Speed				
SI3201			SCP	PLC_SH
Aeration Blower 2 Speed				
Constant	No			
External Access:	Read/Write			
<i>SI3201 - MainProgram/L3201_AerationBlower2_VFD - *4(SCP)</i>				
SI3201.EnableIn	1		BOOL	
Aeration Blower 2 Speed Enable Input - System Defined Parameter				
SI3201.EnableOut	1		BOOL	
Aeration Blower 2 Speed Enable Output - System Defined Parameter				
SI3201.Input	0.0		REAL	
Aeration Blower 2 Speed				
SI3201.InputMin	4000.0		REAL	
Aeration Blower 2 Speed				
SI3201.InputMax	20000.0		REAL	
Aeration Blower 2 Speed				
SI3201.OutputMin	0.0		REAL	
Aeration Blower 2 Speed				
SI3201.OutputMax	60.0		REAL	
Aeration Blower 2 Speed				
SI3201.Output	0.0		REAL	
Aeration Blower 2 Speed				
<i>SI3201.Output - MainProgram/L3201_AerationBlower2_VFD - 12(CMP)</i>				
SI3201.ClampMin	1		BOOL	
Aeration Blower 2 Speed				
SI3201.ClampMax	1		BOOL	
Aeration Blower 2 Speed				
SS1104			SS	PLC_SH
Sludge Feed Pump 1				
Constant	No			
External Access:	Read/Write			
<i>SS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *22(SS)</i>				
SS1104.EnableIn	0		BOOL	
Sludge Feed Pump 1 Enable Input - System Defined Parameter				
SS1104.EnableOut	0		BOOL	
Sludge Feed Pump 1 Enable Output - System Defined Parameter				
SS1104.HMIAuto	0		BOOL	
Sludge Feed Pump 1 HMI Auto				

SS1104 (Continued)

SS1104.HMIAuto - MainProgram/L1104_SludgeFeedPump1_VFD - 25(XIC)

SS1104.AutoStart 0 BOOL

Sludge Feed Pump 1 Auto Start Command

*SS1104.AutoStart - MainProgram/L1104_SludgeFeedPump1_VFD - *21(OTE)*

SS1104.HMIStart 0 BOOL

Sludge Feed Pump 1 HMI Manual Start

SS1104.HMIStop 0 BOOL

Sludge Feed Pump 1 HMI Manual Stop

SS1104.StartCmd 0 BOOL

Sludge Feed Pump 1 Start Command

SS1104.StartCmd - MainProgram/L1104_SludgeFeedPump1_VFD - 14(XIC), 5(XIC), 8(XIC), 9(XIO)

SS1104.RestartActive 0 BOOL

Sludge Feed Pump 1 Restart Delay Active

SS1104.RestartPRE 0 DINT

Sludge Feed Pump 1 Restart Delay Preset (Milliseconds)

SS1104.RestartTime 0 DINT

Sludge Feed Pump 1 Actual Restart Time (Times Down)

SS1204 SS PLC_SH

Sludge Feed Pump 2

Constant No

External Access: Read/Write

*SS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *22(SS)*

SS1204.EnableIn 0 BOOL

Sludge Feed Pump 2 Enable Input - System Defined Parameter

SS1204.EnableOut 0 BOOL

Sludge Feed Pump 2 Enable Output - System Defined Parameter

SS1204.HMIAuto 0 BOOL

Sludge Feed Pump 2 HMI Auto

SS1204.HMIAuto - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)

SS1204.AutoStart 0 BOOL

Sludge Feed Pump 2 Auto Start Command

*SS1204.AutoStart - MainProgram/L1204_SludgeFeedPump2_VFD - *21(OTE)*

SS1204.HMIStart 0 BOOL

Sludge Feed Pump 2 HMI Manual Start

SS1204.HMIStop 0 BOOL

Sludge Feed Pump 2 HMI Manual Stop

SS1204.StartCmd 0 BOOL

Sludge Feed Pump 2 Start Command

SS1204.StartCmd - MainProgram/L1204_SludgeFeedPump2_VFD - 14(XIC), 5(XIC), 8(XIC), 9(XIO)

SS1204.RestartActive 0 BOOL

Sludge Feed Pump 2 Restart Delay Active

SS1204.RestartPRE 0 DINT

Sludge Feed Pump 2 Restart Delay Preset (Milliseconds)

SS1204.RestartTime 0 DINT

Sludge Feed Pump 2 Actual Restart Time (Times Down)

SS3101 SS PLC_SH

Aeration Blower 1

Constant No

External Access: Read/Write

*SS3101 - MainProgram/L3101_AerationBlower1_VFD - *21(SS)*

SS3101.EnableIn 0 BOOL

Aeration Blower 1 Enable Input - System Defined Parameter

SS3101.EnableOut 0 BOOL

Aeration Blower 1 Enable Output - System Defined Parameter

SS3101.HMIAuto 0 BOOL

Aeration Blower 1 HMI Auto

SS3101.AutoStart 0 BOOL

Aeration Blower 1 Auto Start Command

*SS3101.AutoStart - MainProgram/L3101_AerationBlower1_VFD - *20(OTE)*

SS3101.HMIStart 0 BOOL

Aeration Blower 1 HMI Manual Start

SS3101 (Continued)		
SS3101.HMIStop	0	BOOL
Aeration Blower 1 HMI Manual Stop		
SS3101.StartCmd	0	BOOL
Aeration Blower 1 Start Command		
<i>SS3101.StartCmd - MainProgram/L3101_AerationBlower1_VFD - 12(XIC), 3(XIC), 6(XIC), 7(XIO)</i>		
SS3101.RestartActive	0	BOOL
Aeration Blower 1 Restart Delay Active		
SS3101.RestartPRE	0	DINT
Aeration Blower 1 Restart Delay Preset (Milliseconds)		
SS3101.RestartTime	0	DINT
Aeration Blower 1 Actual Restart Time (Times Down)		
SS3201		
		SS
Aeration Blower 2		
Constant	No	
External Access:	Read/Write	
<i>SS3201 - MainProgram/L3201_AerationBlower2_VFD - *21(SS)</i>		
SS3201.EnableIn	0	BOOL
Aeration Blower 2 Enable Input - System Defined Parameter		
SS3201.EnableOut	0	BOOL
Aeration Blower 2 Enable Output - System Defined Parameter		
SS3201.HMIAuto	0	BOOL
Aeration Blower 2 HMI Auto		
SS3201.AutoStart	0	BOOL
Aeration Blower 2 Auto Start Command		
<i>SS3201.AutoStart - MainProgram/L3201_AerationBlower2_VFD - *20(OTE)</i>		
SS3201.HMIStart	0	BOOL
Aeration Blower 2 HMI Manual Start		
SS3201.HMIStop	0	BOOL
Aeration Blower 2 HMI Manual Stop		
SS3201.StartCmd	0	BOOL
Aeration Blower 2 Start Command		
<i>SS3201.StartCmd - MainProgram/L3201_AerationBlower2_VFD - 12(XIC), 3(XIC), 6(XIC), 7(XIO)</i>		
SS3201.RestartActive	0	BOOL
Aeration Blower 2 Restart Delay Active		
SS3201.RestartPRE	0	DINT
Aeration Blower 2 Restart Delay Preset (Milliseconds)		
SS3201.RestartTime	0	DINT
Aeration Blower 2 Actual Restart Time (Times Down)		
TAH_PLC		
		ALRM
PLC Panel High Temperature		
Constant	No	
External Access:	Read/Write	
<i>TAH_PLC - MainProgram/MainRoutine - *3(ALRM)</i>		
TAH_PLC.EnableIn	0	BOOL
PLC Panel High Temperature Enable Input - System Defined Parameter		
TAH_PLC.EnableOut	0	BOOL
PLC Panel High Temperature Enable Output - System Defined Parameter		
TAH_PLC.Latched	0	BOOL
PLC Panel High Temperature		
TAH_PLC.OperReset	0	BOOL
PLC Panel High Temperature		
TAH_PLC.ProgReset	0	BOOL
PLC Panel High Temperature		
TAH_PLC.OperDisable	0	BOOL
PLC Panel High Temperature		
TAH_PLC.OperEnable	0	BOOL
PLC Panel High Temperature		
TAH_PLC.AlarmCountReset	0	BOOL
PLC Panel High Temperature Set to 1 to reset alarm count		
TAH_PLC.InAlarm	0	BOOL
PLC Panel High Temperature		

TAH_PLC (Continued)		
TAH_PLC.Disabled	0	BOOL
PLC Panel High Temperature		
TAH_PLC.MinDurationPRE	0	DINT
PLC Panel High Temperature		
TAH_PLC.MinDurationACC	0	DINT
PLC Panel High Temperature		
TAH_PLC.AlarmCount	0	DINT
PLC Panel High Temperature		
TAH_PLC.InAlarmDate	0	DINT
PLC Panel High Temperature		
TAH_PLC.InAlarmTime	0	DINT
PLC Panel High Temperature		
TAH_PLC.RetToNormalDate	0	DINT
PLC Panel High Temperature		
TAH_PLC.RetToNormalTime	0	DINT
PLC Panel High Temperature		
TAH_PLC.AlarmCountResetDate	0	DINT
PLC Panel High Temperature		
TAH_PLC.AlarmCountResetTime	0	DINT
PLC Panel High Temperature		
TAH1104		ALRM
PLC_SH		
Sludge Feed Pump 1 Motor Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *17(ALRM)</i>		
TAH1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Motor Temperature High Enable Input - System Defined Parameter		
TAH1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Motor Temperature High Enable Output - System Defined Parameter		
TAH1104.Latched	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.OperReset	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
<i>TAH1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
TAH1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Motor Temperature High Set to 1 to reset alarm count		
TAH1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
<i>TAH1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
TAH1104.Disabled	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.AlarmCountResetDate	0	DINT

TAH1104 (Continued)		
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Motor Temperature High		
TAH1204		ALRM PLC_SH
Sludge Feed Pump 2 Motor Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *17(ALRM)</i>		
TAH1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Motor Temperature High Enable Input - System Defined Parameter		
TAH1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Motor Temperature High Enable Output - System Defined Parameter		
TAH1204.Latched	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.OperReset	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
<i>TAH1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
TAH1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Motor Temperature High Set to 1 to reset alarm count		
TAH1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
<i>TAH1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
TAH1204.Disabled	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH3101A		ALRM PLC_SH
Aeration Blower 1 Motor Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH3101A - MainProgram/L3101_AerationBlower1_VFD - *15(ALRM)</i>		
TAH3101A.EnableIn	0	BOOL
Aeration Blower 1 Motor Temperature High Enable Input - System Defined Parameter		
TAH3101A.EnableOut	0	BOOL
Aeration Blower 1 Motor Temperature High Enable Output - System Defined Parameter		
TAH3101A.Latched	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.OperReset	0	BOOL
Aeration Blower 1 Motor Temperature High		

TAH3101A (Continued)

<i>TAH3101A.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
TAH3101A.ProgReset	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.OperDisable	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.OperEnable	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCountReset	0	BOOL
Aeration Blower 1 Motor Temperature High Set to 1 to reset alarm count		
TAH3101A.InAlarm	0	BOOL
Aeration Blower 1 Motor Temperature High		
<i>TAH3101A.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
TAH3101A.Disabled	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.MinDurationPRE	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.MinDurationACC	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCount	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.InAlarmDate	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.InAlarmTime	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.RetToNormalDate	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.RetToNormalTime	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCountResetDate	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCountResetTime	0	DINT
Aeration Blower 1 Motor Temperature High		

TAH3101B ALRM PLC_SH

Aeration Blower 1 Discharge Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH3101B - MainProgram/L3101_AerationBlower1_VFD - *16(ALRM)</i>		
TAH3101B.EnableIn	0	BOOL
Aeration Blower 1 Discharge Temperature High Enable Input - System Defined Parameter		
TAH3101B.EnableOut	0	BOOL
Aeration Blower 1 Discharge Temperature High Enable Output - System Defined Parameter		
TAH3101B.Latched	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.OperReset	0	BOOL
Aeration Blower 1 Discharge Temperature High		
<i>TAH3101B.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
TAH3101B.ProgReset	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.OperDisable	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.OperEnable	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCountReset	0	BOOL
Aeration Blower 1 Discharge Temperature High Set to 1 to reset alarm count		
TAH3101B.InAlarm	0	BOOL
Aeration Blower 1 Discharge Temperature High		
<i>TAH3101B.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
TAH3101B.Disabled	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.MinDurationPRE	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.MinDurationACC	0	DINT

TAH3101B (Continued)

Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCount	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.InAlarmDate	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.InAlarmTime	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.RefToNormalDate	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.RefToNormalTime	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCountResetDate	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCountResetTime	0	DINT
Aeration Blower 1 Discharge Temperature High		

TAH3201A ALRM PLC_SH

Aeration Blower 2 Motor Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH3201A - MainProgram/L3201_AerationBlower2_VFD - *15(ALRM)</i>		
TAH3201A.EnableIn	0	BOOL
Aeration Blower 2 Motor Temperature High	Enable Input - System Defined Parameter	
TAH3201A.EnableOut	0	BOOL
Aeration Blower 2 Motor Temperature High	Enable Output - System Defined Parameter	
TAH3201A.Latched	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.OperReset	0	BOOL
Aeration Blower 2 Motor Temperature High		
<i>TAH3201A.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
TAH3201A.ProgReset	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.OperDisable	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.OperEnable	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCountReset	0	BOOL
Aeration Blower 2 Motor Temperature High	Set to 1 to reset alarm count	
TAH3201A.InAlarm	0	BOOL
Aeration Blower 2 Motor Temperature High		
<i>TAH3201A.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
TAH3201A.Disabled	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.MinDurationPRE	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.MinDurationACC	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCount	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.InAlarmDate	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.InAlarmTime	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.RetToNormalDate	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.RetToNormalTime	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCountResetDate	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCountResetTime	0	DINT
Aeration Blower 2 Motor Temperature High		

TAH3201B ALRM PLC_SH

TAH3201B (Continued)

Aeration Blower 2 Discharge Temperature High			
Constant	No		
External Access:	Read/Write		
<i>TAH3201B - MainProgram/L3201_AerationBlower2_VFD - *16(ALRM)</i>			
TAH3201B.EnableIn	0	BOOL	
Aeration Blower 2 Discharge Temperature High	Enable Input - System Defined Parameter		
TAH3201B.EnableOut	0	BOOL	
Aeration Blower 2 Discharge Temperature High	Enable Output - System Defined Parameter		
TAH3201B.Latched	0	BOOL	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.OperReset	0	BOOL	
Aeration Blower 2 Discharge Temperature High			
<i>TAH3201B.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
TAH3201B.ProgReset	0	BOOL	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.OperDisable	0	BOOL	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.OperEnable	0	BOOL	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.AlarmCountReset	0	BOOL	
Aeration Blower 2 Discharge Temperature High	Set to 1 to reset alarm count		
TAH3201B.InAlarm	0	BOOL	
Aeration Blower 2 Discharge Temperature High			
<i>TAH3201B.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>			
TAH3201B.Disabled	0	BOOL	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.MinDurationPRE	0	DINT	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.MinDurationACC	0	DINT	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.AlarmCount	0	DINT	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.InAlarmDate	0	DINT	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.InAlarmTime	0	DINT	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.RetToNormalDate	0	DINT	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.RetToNormalTime	0	DINT	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Discharge Temperature High			
TAH3201B.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Discharge Temperature High			
TSH1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 High Temperature Switch			
Constant	No		
External Access:	Read/Write		
<i>TSH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 17(XIC)</i>			
TSH1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 High Temperature Switch			
Constant	No		
External Access:	Read/Write		
<i>TSH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 17(XIC)</i>			
TSH3101	0	BOOL	PLC_SH
Aeration Blower 1 High Temperature Switch			
Constant	No		
External Access:	Read/Write		
<i>TSH3101 - MainProgram/L3101_AerationBlower1_VFD - 15(XIC), 16(XIC)</i>			

TSH3201	0	BOOL	PLC_SH
Aeration Blower 2 High Temperature Switch			
Constant	No		
External Access:	Read/Write		
<i>TSH3201 - MainProgram/L3201_AerationBlower2_VFD - 15(XIC), 16(XIC)</i>			
VFD1104:I1		_0044:DG1_7E5A1DEB:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
VFD1104:I1.ConnectionFaulted	1	BOOL	
<i>VFD1104:I1.ConnectionFaulted - MainProgram/L1104_SludgeFeedPump1_VFD - 0(DG1)</i>			
VFD1104:I1.Data		INT	
<i>VFD1104:I1.Data - MainProgram/L1104_SludgeFeedPump1_VFD - *0(DG1)</i>			
VFD1104:O1		_0044:DG1_7377BDB4:O:0	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>VFD1104:O1 - MainProgram/L1104_SludgeFeedPump1_VFD - *0(DG1)</i>			
VFD1204:I1		_0044:DG1_7E5A1DEB:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
VFD1204:I1.ConnectionFaulted	1	BOOL	
<i>VFD1204:I1.ConnectionFaulted - MainProgram/L1204_SludgeFeedPump2_VFD - 0(DG1)</i>			
VFD1204:I1.Data		INT	
<i>VFD1204:I1.Data - MainProgram/L1204_SludgeFeedPump2_VFD - *0(DG1)</i>			
VFD1204:O1		_0044:DG1_7377BDB4:O:0	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>VFD1204:O1 - MainProgram/L1204_SludgeFeedPump2_VFD - *0(DG1)</i>			
YA_INT		ALRM	PLC_SH
Intrusion			
Constant	No		
External Access:	Read/Write		
<i>YA_INT - MainProgram/L0000_Intrusion - *1(ALRM)</i>			
YA_INT.EnableIn	0	BOOL	
Intrusion Enable Input - System Defined Parameter			
YA_INT.EnableOut	0	BOOL	
Intrusion Enable Output - System Defined Parameter			
YA_INT.Latched	0	BOOL	
Intrusion			
YA_INT.OperReset	0	BOOL	
Intrusion			
YA_INT.ProgReset	0	BOOL	
Intrusion			
YA_INT.OperDisable	0	BOOL	
Intrusion			
YA_INT.OperEnable	0	BOOL	
Intrusion			
YA_INT.AlarmCountReset	0	BOOL	
Intrusion Set to 1 to reset alarm count			
YA_INT.InAlarm	0	BOOL	
Intrusion			
YA_INT.Disabled	0	BOOL	
Intrusion			
YA_INT.MinDurationPRE	5000	DINT	
Intrusion			
YA_INT.MinDurationACC	77	DINT	
Intrusion			
YA_INT.AlarmCount	16	DINT	
Intrusion			
YA_INT.InAlarmDate	11072022	DINT	

YA_INT (Continued)				
Intrusion				
YA_INT.InAlarmTime	90426		DINT	
Intrusion				
YA_INT.RetToNormalDate	11072022		DINT	
Intrusion				
YA_INT.RetToNormalTime	91547		DINT	
Intrusion				
YA_INT.AlarmCountResetDate	0		DINT	
Intrusion				
YA_INT.AlarmCountResetTime	0		DINT	
Intrusion				
YA_PLC			ALRM	PLC_SH
PLC Fault				
Constant	No			
External Access:	Read/Write			
<i>YA_PLC - MainProgram/PLCFault - *0(ALRM)</i>				
YA_PLC.EnableIn	0		BOOL	
PLC Fault Enable Input - System Defined Parameter				
YA_PLC.EnableOut	0		BOOL	
PLC Fault Enable Output - System Defined Parameter				
YA_PLC.Latched	0		BOOL	
PLC Fault				
YA_PLC.OperReset	0		BOOL	
PLC Fault				
<i>YA_PLC.OperReset - MainProgram/MainRoutine - *0(OTU), 0(XIC)</i>				
YA_PLC.ProgReset	0		BOOL	
PLC Fault				
YA_PLC.OperDisable	0		BOOL	
PLC Fault				
<i>YA_PLC.OperDisable - MainProgram/MainRoutine - *0(OTU)</i>				
YA_PLC.OperEnable	0		BOOL	
PLC Fault				
YA_PLC.AlarmCountReset	0		BOOL	
PLC Fault Set to 1 to reset alarm count				
YA_PLC.InAlarm	0		BOOL	
PLC Fault				
<i>YA_PLC.InAlarm - MainProgram/MainRoutine - *0(OTU)</i>				
YA_PLC.Disabled	0		BOOL	
PLC Fault				
YA_PLC.MinDurationPRE	0		DINT	
PLC Fault				
YA_PLC.MinDurationACC	0		DINT	
PLC Fault				
YA_PLC.AlarmCount	0		DINT	
PLC Fault				
YA_PLC.InAlarmDate	0		DINT	
PLC Fault				
YA_PLC.InAlarmTime	0		DINT	
PLC Fault				
YA_PLC.RetToNormalDate	0		DINT	
PLC Fault				
YA_PLC.RetToNormalTime	0		DINT	
PLC Fault				
YA_PLC.AlarmCountResetDate	0		DINT	
PLC Fault				
YA_PLC.AlarmCountResetTime	0		DINT	
PLC Fault				
YA1104			ALRM	PLC_SH
Sludge Feed Pump 1 Fail				
Constant	No			
External Access:	Read/Write			

YA1104 (Continued)

*YA1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *10(ALRM)*

YA1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Fail Enable Input - System Defined Parameter		
YA1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Fail Enable Output - System Defined Parameter		
YA1104.Latched	0	BOOL
Sludge Feed Pump 1 Fail		
YA1104.OperReset	0	BOOL
Sludge Feed Pump 1 Fail		
<i>YA1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
YA1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Fail		
YA1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Fail		
YA1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Fail		
YA1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Fail Set to 1 to reset alarm count		
YA1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Fail		
<i>YA1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
YA1104.Disabled	0	BOOL
Sludge Feed Pump 1 Fail		
YA1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Fail		
YA1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Fail		

YA1204 ALRM PLC_SH

Sludge Feed Pump 2 Fail
 Constant No
 External Access: Read/Write
*YA1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *10(ALRM)*

YA1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Fail Enable Input - System Defined Parameter		
YA1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Fail Enable Output - System Defined Parameter		
YA1204.Latched	0	BOOL
Sludge Feed Pump 2 Fail		
YA1204.OperReset	0	BOOL
Sludge Feed Pump 2 Fail		
<i>YA1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
YA1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Fail		
YA1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Fail		
YA1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Fail		
YA1204.AlarmCountReset	0	BOOL

YA1204 (Continued)

Sludge Feed Pump 2 Fail Set to 1 to reset alarm count		
YA1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Fail		
<i>YA1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
YA1204.Disabled	0	BOOL
Sludge Feed Pump 2 Fail		
YA1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Fail		
YA1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Fail		

YA2106 ALRM PLC_SH

Screw Press Conveyor 1 Fail		
Constant	No	
External Access:	Read/Write	
<i>YA2106 - MainProgram/L2106_ScrewPressConveyor1 - *7(ALRM)</i>		
YA2106.EnableIn	0	BOOL
Screw Press Conveyor 1 Fail Enable Input - System Defined Parameter		
YA2106.EnableOut	0	BOOL
Screw Press Conveyor 1 Fail Enable Output - System Defined Parameter		
YA2106.Latched	0	BOOL
Screw Press Conveyor 1 Fail		
YA2106.OperReset	0	BOOL
Screw Press Conveyor 1 Fail		
<i>YA2106.OperReset - MainProgram/L2106_ScrewPressConveyor1 - *8(OTL)</i>		
YA2106.ProgReset	0	BOOL
Screw Press Conveyor 1 Fail		
YA2106.OperDisable	0	BOOL
Screw Press Conveyor 1 Fail		
YA2106.OperEnable	0	BOOL
Screw Press Conveyor 1 Fail		
YA2106.AlarmCountReset	0	BOOL
Screw Press Conveyor 1 Fail Set to 1 to reset alarm count		
YA2106.InAlarm	0	BOOL
Screw Press Conveyor 1 Fail		
<i>YA2106.InAlarm - MainProgram/L2106_ScrewPressConveyor1 - 9(XIO)</i>		
YA2106.Disabled	0	BOOL
Screw Press Conveyor 1 Fail		
YA2106.MinDurationPRE	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.MinDurationACC	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.AlarmCount	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.InAlarmDate	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.InAlarmTime	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.RetToNormalDate	0	DINT

YA2106 (Continued)		
Screw Press Conveyor 1 Fail		
YA2106.RetToNormalTime	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.AlarmCountResetDate	0	DINT
Screw Press Conveyor 1 Fail		
YA2106.AlarmCountResetTime	0	DINT
Screw Press Conveyor 1 Fail		
YA2206		ALRM PLC_SH
Screw Press Conveyor 2 Fail		
Constant	No	
External Access:	Read/Write	
<i>YA2206 - MainProgram/L2206_ScrewPressConveyor2 - *7(ALRM)</i>		
YA2206.EnableIn	0	BOOL
Screw Press Conveyor 2 Fail Enable Input - System Defined Parameter		
YA2206.EnableOut	0	BOOL
Screw Press Conveyor 2 Fail Enable Output - System Defined Parameter		
YA2206.Latched	0	BOOL
Screw Press Conveyor 2 Fail		
YA2206.OperReset	0	BOOL
Screw Press Conveyor 2 Fail		
<i>YA2206.OperReset - MainProgram/L2206_ScrewPressConveyor2 - *8(OTL)</i>		
YA2206.ProgReset	0	BOOL
Screw Press Conveyor 2 Fail		
YA2206.OperDisable	0	BOOL
Screw Press Conveyor 2 Fail		
YA2206.OperEnable	0	BOOL
Screw Press Conveyor 2 Fail		
YA2206.AlarmCountReset	0	BOOL
Screw Press Conveyor 2 Fail Set to 1 to reset alarm count		
YA2206.InAlarm	0	BOOL
Screw Press Conveyor 2 Fail		
<i>YA2206.InAlarm - MainProgram/L2206_ScrewPressConveyor2 - 9(XIO)</i>		
YA2206.Disabled	0	BOOL
Screw Press Conveyor 2 Fail		
YA2206.MinDurationPRE	0	DINT
Screw Press Conveyor 2 Fail		
YA2206.MinDurationACC	0	DINT
Screw Press Conveyor 2 Fail		
YA2206.AlarmCount	0	DINT
Screw Press Conveyor 2 Fail		
YA2206.InAlarmDate	0	DINT
Screw Press Conveyor 2 Fail		
YA2206.InAlarmTime	0	DINT
Screw Press Conveyor 2 Fail		
YA2206.RetToNormalDate	0	DINT
Screw Press Conveyor 2 Fail		
YA2206.RetToNormalTime	0	DINT
Screw Press Conveyor 2 Fail		
YA2206.AlarmCountResetDate	0	DINT
Screw Press Conveyor 2 Fail		
YA2206.AlarmCountResetTime	0	DINT
Screw Press Conveyor 2 Fail		
YA3101		ALRM PLC_SH
Aeration Blower 1 Fail		
Constant	No	
External Access:	Read/Write	
<i>YA3101 - MainProgram/L3101_AerationBlower1_VFD - *8(ALRM)</i>		
YA3101.EnableIn	0	BOOL
Aeration Blower 1 Fail Enable Input - System Defined Parameter		
YA3101.EnableOut	0	BOOL
Aeration Blower 1 Fail Enable Output - System Defined Parameter		

YA3101 (Continued)

YA3101.Latched	0	BOOL
Aeration Blower 1 Fail		
YA3101.OperReset	0	BOOL
Aeration Blower 1 Fail		
<i>YA3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
YA3101.ProgReset	0	BOOL
Aeration Blower 1 Fail		
YA3101.OperDisable	0	BOOL
Aeration Blower 1 Fail		
YA3101.OperEnable	0	BOOL
Aeration Blower 1 Fail		
YA3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Fail Set to 1 to reset alarm count		
YA3101.InAlarm	0	BOOL
Aeration Blower 1 Fail		
<i>YA3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
YA3101.Disabled	0	BOOL
Aeration Blower 1 Fail		
YA3101.MinDurationPRE	0	DINT
Aeration Blower 1 Fail		
YA3101.MinDurationACC	0	DINT
Aeration Blower 1 Fail		
YA3101.AlarmCount	0	DINT
Aeration Blower 1 Fail		
YA3101.InAlarmDate	0	DINT
Aeration Blower 1 Fail		
YA3101.InAlarmTime	0	DINT
Aeration Blower 1 Fail		
YA3101.RetToNormalDate	0	DINT
Aeration Blower 1 Fail		
YA3101.RetToNormalTime	0	DINT
Aeration Blower 1 Fail		
YA3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Fail		
YA3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Fail		

YA3201		ALRM	PLC_SH
Aeration Blower 2 Fail			
Constant	No		
External Access:	Read/Write		
<i>YA3201 - MainProgram/L3201_AerationBlower2_VFD - *8(ALRM)</i>			
YA3201.EnableIn	0	BOOL	
Aeration Blower 2 Fail Enable Input - System Defined Parameter			
YA3201.EnableOut	0	BOOL	
Aeration Blower 2 Fail Enable Output - System Defined Parameter			
YA3201.Latched	0	BOOL	
Aeration Blower 2 Fail			
YA3201.OperReset	0	BOOL	
Aeration Blower 2 Fail			
<i>YA3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
YA3201.ProgReset	0	BOOL	
Aeration Blower 2 Fail			
YA3201.OperDisable	0	BOOL	
Aeration Blower 2 Fail			
YA3201.OperEnable	0	BOOL	
Aeration Blower 2 Fail			
YA3201.AlarmCountReset	0	BOOL	
Aeration Blower 2 Fail Set to 1 to reset alarm count			
YA3201.InAlarm	0	BOOL	
Aeration Blower 2 Fail			
<i>YA3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>			
YA3201.Disabled	0	BOOL	

YA3201 (Continued)			
Aeration Blower 2 Fail			
YA3201.MinDurationPRE	0	DINT	
Aeration Blower 2 Fail			
YA3201.MinDurationACC	0	DINT	
Aeration Blower 2 Fail			
YA3201.AlarmCount	0	DINT	
Aeration Blower 2 Fail			
YA3201.InAlarmDate	0	DINT	
Aeration Blower 2 Fail			
YA3201.InAlarmTime	0	DINT	
Aeration Blower 2 Fail			
YA3201.RefToNormalDate	0	DINT	
Aeration Blower 2 Fail			
YA3201.RefToNormalTime	0	DINT	
Aeration Blower 2 Fail			
YA3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Fail			
YA3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Fail			
YC1100	0	DINT	PLC_SH
Solids Mode Select (0=SHT1) (1=SHT2) (2=WAS)			
Constant	No		
External Access:	Read/Write		
<i>YC1100 - MainProgram/Communications - 18(EQU), 18(LEQ), 19(EQU), 19(LEQ), 3(EQU), 3(LEQ), 30(EQU), 4(EQU), 4(LEQ)</i>			
<i>YC1100 - MainProgram/L1100_PressControl - 0(NEQ), 1(NEQ), 2(NEQ), 7(EQU)</i>			
YC1100A	0	BOOL	PLC_SH
Sludge Pump Auto Start Cmd			
Constant	No		
External Access:	Read/Write		
<i>YC1100A - MainProgram/L1100_PressControl - *7(OTE)</i>			
<i>YC1100A - MainProgram/L1104_SludgeFeedPump1_VFD - 30(XIC), 31(XIO)</i>			
YI406	0	BOOL	PLC_SH
Secondary Sludge Pump 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI406 - MainProgram/Communications - *36(OTE), 18(XIC), 3(XIC)</i>			
YI409	0	BOOL	PLC_SH
Secondary Sludge Pump 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI409 - MainProgram/Communications - *37(OTE), 18(XIC), 3(XIC)</i>			
YI1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI1104 - MainProgram/Communications - 18(XIC), 3(XIC)</i>			
<i>YI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *3(OTE), 24(XIC), 25(XIC), 8(XIO), 9(XIC)</i>			
YI1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI1204 - MainProgram/Communications - 18(XIC), 3(XIC)</i>			
<i>YI1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>			
<i>YI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *3(OTE), 24(XIC), 8(XIO), 9(XIC)</i>			
YI2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 Running			

YI2106 (Continued)			
Constant	No		
External Access:	Read/Write		
<i>YI2106 - MainProgram/Communications - 30(XIC)</i>			
<i>YI2106 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>YI2106 - MainProgram/L2106_ScrewPressConveyor1 - *1(OTE), 14(XIC), 5(XIO), 6(XIC)</i>			
YI2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI2206 - MainProgram/Communications - 30(XIC)</i>			
<i>YI2206 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>YI2206 - MainProgram/L2206_ScrewPressConveyor2 - *1(OTE), 14(XIC), 5(XIO), 6(XIC)</i>			
YI3101	0	BOOL	PLC_SH
Aeration Blower 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI3101 - MainProgram/L3101_AerationBlower1_VFD - *1(OTE), 22(XIC), 6(XIO), 7(XIC)</i>			
<i>YI3101 - MainProgram/L3103_AerBlower_Pressure - 2(XIC), 3(XIC)</i>			
YI3201	0	BOOL	PLC_SH
Aeration Blower 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI3201 - MainProgram/L3103_AerBlower_Pressure - 2(XIC), 3(XIC)</i>			
<i>YI3201 - MainProgram/L3201_AerationBlower2_VFD - *1(OTE), 22(XIC), 6(XIO), 7(XIC)</i>			
YL406	0	BOOL	PLC_SH
Secondary Sludge Pump 1 Auto Ready			
Constant	No		
External Access:	Read/Write		
<i>YL406 - MainProgram/Communications - *34(OTE), 19(XIO), 4(XIO)</i>			
<i>YL406 - MainProgram/L1100_PressControl - 2(XIO)</i>			
YL409	0	BOOL	PLC_SH
Secondary Sludge Pump 2 Auto Ready			
Constant	No		
External Access:	Read/Write		
<i>YL409 - MainProgram/Communications - *35(OTE), 19(XIO), 4(XIO)</i>			
<i>YL409 - MainProgram/L1100_PressControl - 2(XIO)</i>			
YL1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>YL1101 - MainProgram/L1101_SHT1_ControlValve - *10(OTE), 14(XIC)</i>			
YL1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *19(OTE), 22(XIC), 25(XIC)</i>			
YL1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>YL1201 - MainProgram/L1201_SHT2_ControlValve - *10(OTE), 14(XIC)</i>			
YL1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Ready			
Constant	No		

YL1204 (Continued)			
External Access:	Read/Write		
<i>YL1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>			
<i>YL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *19(OTE), 22(XIC)</i>			
YL2101	0	BOOL	PLC_SH
Press 1 Sludge Valve Ready			
Constant	No		
External Access:	Read/Write		
<i>YL2101 - MainProgram/L1100_PressControl - 3(XIO)</i>			
<i>YL2101 - MainProgram/L2101_Press1_SludgeValve - *10(OTE), 14(XIC)</i>			
YL2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL2106 - MainProgram/L1100_PressControl - 3(XIO)</i>			
<i>YL2106 - MainProgram/L2106_ScrewPressConveyor1 - *9(OTE), 13(XIC)</i>			
YL2201	0	BOOL	PLC_SH
Press 2 Sludge Valve Ready			
Constant	No		
External Access:	Read/Write		
<i>YL2201 - MainProgram/L1100_PressControl - 4(XIO)</i>			
<i>YL2201 - MainProgram/L2201_Press2_SludgeValve - *10(OTE), 14(XIC)</i>			
YL2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL2206 - MainProgram/L1100_PressControl - 4(XIO)</i>			
<i>YL2206 - MainProgram/L2206_ScrewPressConveyor2 - *9(OTE), 13(XIC)</i>			
YL3101	0	BOOL	PLC_SH
Aeration Blower 1 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL3101 - MainProgram/L3101_AerationBlower1_VFD - *18(OTE), 21(XIC)</i>			
YL3201	0	BOOL	PLC_SH
Aeration Blower 2 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL3201 - MainProgram/L3201_AerationBlower2_VFD - *18(OTE), 21(XIC)</i>			
YS_INT	0	BOOL	PLC_SH
Intrusion Switch			
Constant	No		
External Access:	Read/Write		
<i>YS_INT - MainProgram/L0000_Intrusion - *0(OTE), 1(XIC)</i>			
YS1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *4(OTE), 10(XIC)</i>			
YS1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *4(OTE), 10(XIC)</i>			
YS2106	0	BOOL	PLC_SH

YS2106 (Continued)			
Screw Press Conveyor 1 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS2106 - MainProgram/L2106_ScrewPressConveyor1 - *2(OTE), 7(XIC)</i>			
YS2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS2206 - MainProgram/L2206_ScrewPressConveyor2 - *2(OTE), 7(XIC)</i>			
YS3101	0	BOOL	PLC_SH
Aeration Blower 1 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS3101 - MainProgram/L3101_AerationBlower1_VFD - *2(OTE), 8(XIC)</i>			
YS3201	0	BOOL	PLC_SH
Aeration Blower 2 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS3201 - MainProgram/L3201_AerationBlower2_VFD - *2(OTE), 8(XIC)</i>			
YY1100A	6	DINT	PLC_SH
Solids From SHT 1 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY1100A - MainProgram/L1100_PressControl - *0(CLR), 7(EQU)</i>			
YY1100A.0	0	BOOL	
Solids From SHT 1 Intermux			
<i>YY1100A.0 - MainProgram/L1100_PressControl - *0(OTE)</i>			
YY1100A.1	1	BOOL	
Solids From SHT 1 Intermux			
<i>YY1100A.1 - MainProgram/L1100_PressControl - *0(OTE)</i>			
YY1100A.2	1	BOOL	
Solids From SHT 1 Intermux			
<i>YY1100A.2 - MainProgram/L1100_PressControl - *0(OTE)</i>			
YY1100A.3	0	BOOL	
Solids From SHT 1 Intermux			
<i>YY1100A.3 - MainProgram/L1100_PressControl - *0(OTE)</i>			
YY1100A.4	0	BOOL	
Solids From SHT 1 Intermux			
<i>YY1100A.4 - MainProgram/L1100_PressControl - *0(OTE)</i>			
YY1100B	7	DINT	PLC_SH
Solids From SHT 2 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY1100B - MainProgram/L1100_PressControl - *1(CLR), 7(EQU)</i>			
YY1100B.0	1	BOOL	
Solids From SHT 2 Intermux			
<i>YY1100B.0 - MainProgram/L1100_PressControl - *1(OTE)</i>			
YY1100B.1	1	BOOL	
Solids From SHT 2 Intermux			
<i>YY1100B.1 - MainProgram/L1100_PressControl - *1(OTE)</i>			
YY1100B.2	1	BOOL	
Solids From SHT 2 Intermux			
<i>YY1100B.2 - MainProgram/L1100_PressControl - *1(OTE)</i>			
YY1100C	7	DINT	PLC_SH
Solids From WAS Intermux			
Constant	No		
External Access:	Read/Write		

YY1100C (Continued)				
<i>YY1100C - MainProgram/Communications - 30(EQU)</i>				
<i>YY1100C - MainProgram/L1100_PressControl - *2(CLR)</i>				
YY1100C.0	1		BOOL	
Solids From WAS Intermux				
<i>YY1100C.0 - MainProgram/L1100_PressControl - *2(OTE)</i>				
YY1100C.1	1		BOOL	
Solids From WAS Intermux				
<i>YY1100C.1 - MainProgram/L1100_PressControl - *2(OTE)</i>				
YY1100C.2	1		BOOL	
Solids From WAS Intermux				
<i>YY1100C.2 - MainProgram/L1100_PressControl - *2(OTE)</i>				
YY1100C.3	0		BOOL	
Solids From WAS Intermux				
<i>YY1100C.3 - MainProgram/L1100_PressControl - *2(OTE)</i>				
YY1100D	11		DINT	PLC_SH
Press 1 Intermux				
Constant No				
External Access: Read/Write				
<i>YY1100D - MainProgram/Communications - 1(EQU), 2(NEQ), 30(EQU)</i>				
<i>YY1100D - MainProgram/L1100_PressControl - *3(CLR), 5(NEQ), 7(EQU)</i>				
YY1100D.0	1		BOOL	
Press 1 Intermux				
<i>YY1100D.0 - MainProgram/L1100_PressControl - *3(OTE)</i>				
YY1100D.1	1		BOOL	
Press 1 Intermux				
<i>YY1100D.1 - MainProgram/L1100_PressControl - *3(OTE)</i>				
YY1100D.2	0		BOOL	
Press 1 Intermux				
<i>YY1100D.2 - MainProgram/L1100_PressControl - *3(OTE)</i>				
YY1100D.3	1		BOOL	
Press 1 Intermux				
<i>YY1100D.3 - MainProgram/L1100_PressControl - *3(OTE)</i>				
YY1100E	11		DINT	PLC_SH
Press 2 Intermux				
Constant No				
External Access: Read/Write				
<i>YY1100E - MainProgram/Communications - 16(EQU), 17(NEQ), 30(EQU)</i>				
<i>YY1100E - MainProgram/L1100_PressControl - *4(CLR), 6(NEQ), 7(EQU)</i>				
YY1100E.0	1		BOOL	
Press 2 Intermux				
<i>YY1100E.0 - MainProgram/L1100_PressControl - *4(OTE)</i>				
YY1100E.1	1		BOOL	
Press 2 Intermux				
<i>YY1100E.1 - MainProgram/L1100_PressControl - *4(OTE)</i>				
YY1100E.2	0		BOOL	
Press 2 Intermux				
<i>YY1100E.2 - MainProgram/L1100_PressControl - *4(OTE)</i>				
YY1100E.3	1		BOOL	
Press 2 Intermux				
<i>YY1100E.3 - MainProgram/L1100_PressControl - *4(OTE)</i>				
YY1101	0		DINT	PLC_SH
Solids Holding Tank 1 Control Valve Intermux				
Constant No				
External Access: Read/Write				
<i>YY1101 - MainProgram/L1101_SHT1_ControlValve - *11(CLR), 14(EQU)</i>				
YY1101.0	0		BOOL	
Solids Holding Tank 1 Control Valve Intermux				
<i>YY1101.0 - MainProgram/L1101_SHT1_ControlValve - *11(OTE)</i>				
YY1101.1	0		BOOL	
Solids Holding Tank 1 Control Valve Intermux				

YY1101 (Continued)			
<i>YY1101.1 - MainProgram/L1101_SHT1_ControlValve - *11(OTE)</i>			
YY1104	0	DINT	PLC_SH
Sludge Feed Pump 1 Intermux			
Constant No			
External Access: Read/Write			
<i>YY1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *20(CLR), 22(EQU), 32(NEQ)</i>			
YY1104.0	0	BOOL	
Sludge Feed Pump 1 Intermux			
<i>YY1104.0 - MainProgram/L1104_SludgeFeedPump1_VFD - *20(OTE)</i>			
YY1104.1	0	BOOL	
Sludge Feed Pump 1 Intermux			
<i>YY1104.1 - MainProgram/L1104_SludgeFeedPump1_VFD - *20(OTE)</i>			
YY1201	0	DINT	PLC_SH
Solids Holding Tank 2 Control Valve Intermux			
Constant No			
External Access: Read/Write			
<i>YY1201 - MainProgram/L1201_SHT2_ControlValve - *11(CLR), 14(EQU)</i>			
YY1201.0	0	BOOL	
Solids Holding Tank 2 Control Valve Intermux			
<i>YY1201.0 - MainProgram/L1201_SHT2_ControlValve - *11(OTE)</i>			
YY1201.1	0	BOOL	
Solids Holding Tank 2 Control Valve Intermux			
<i>YY1201.1 - MainProgram/L1201_SHT2_ControlValve - *11(OTE)</i>			
YY1204	0	DINT	PLC_SH
Sludge Feed Pump 2 Intermux			
Constant No			
External Access: Read/Write			
<i>YY1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 32(NEQ)</i>			
<i>YY1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(CLR), 22(EQU)</i>			
YY1204.0	0	BOOL	
Sludge Feed Pump 2 Intermux			
<i>YY1204.0 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(OTE)</i>			
YY1204.1	0	BOOL	
Sludge Feed Pump 2 Intermux			
<i>YY1204.1 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(OTE)</i>			
YY2101	0	DINT	PLC_SH
Press 1 Sludge Valve Intermux			
Constant No			
External Access: Read/Write			
<i>YY2101 - MainProgram/L2101_Press1_SludgeValve - *11(CLR), 14(EQU)</i>			
YY2101.0	0	BOOL	
Press 1 Sludge Valve Intermux			
<i>YY2101.0 - MainProgram/L2101_Press1_SludgeValve - *11(OTE)</i>			
YY2101.1	0	BOOL	
Press 1 Sludge Valve Intermux			
<i>YY2101.1 - MainProgram/L2101_Press1_SludgeValve - *11(OTE)</i>			
YY2106	0	DINT	PLC_SH
Screw Press Conveyor 1 Intermux			
Constant No			
External Access: Read/Write			
<i>YY2106 - MainProgram/L2106_ScrewPressConveyor1 - *10(CLR), 13(EQU)</i>			
YY2106.0	0	BOOL	
Screw Press Conveyor 1 Intermux			
<i>YY2106.0 - MainProgram/L2106_ScrewPressConveyor1 - *10(OTE)</i>			
YY2106.1	0	BOOL	
Screw Press Conveyor 1 Intermux			
<i>YY2106.1 - MainProgram/L2106_ScrewPressConveyor1 - *10(OTE)</i>			

YY2201	0	DINT	PLC_SH
Press 2 Sludge Valve Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY2201 - MainProgram/L2201_Press2_SludgeValve - *11(CLR), 14(EQU)</i>			
YY2201.0	0	BOOL	
Press 2 Sludge Valve Intermux			
<i>YY2201.0 - MainProgram/L2201_Press2_SludgeValve - *11(OTE)</i>			
YY2201.1	0	BOOL	
Press 2 Sludge Valve Intermux			
<i>YY2201.1 - MainProgram/L2201_Press2_SludgeValve - *11(OTE)</i>			
YY2206	0	DINT	PLC_SH
Screw Press Conveyor 2 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY2206 - MainProgram/L2206_ScrewPressConveyor2 - *10(CLR), 13(EQU)</i>			
YY2206.0	0	BOOL	
Screw Press Conveyor 2 Intermux			
<i>YY2206.0 - MainProgram/L2206_ScrewPressConveyor2 - *10(OTE)</i>			
YY2206.1	0	BOOL	
Screw Press Conveyor 2 Intermux			
<i>YY2206.1 - MainProgram/L2206_ScrewPressConveyor2 - *10(OTE)</i>			
YY3101	0	DINT	PLC_SH
Aeration Blower 1 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY3101 - MainProgram/L3101_AerationBlower1_VFD - *19(CLR), 21(EQU)</i>			
YY3101.0	0	BOOL	
Aeration Blower 1 Intermux			
<i>YY3101.0 - MainProgram/L3101_AerationBlower1_VFD - *19(OTE)</i>			
YY3101.1	0	BOOL	
Aeration Blower 1 Intermux			
<i>YY3101.1 - MainProgram/L3101_AerationBlower1_VFD - *19(OTE)</i>			
YY3201	0	DINT	PLC_SH
Aeration Blower 2 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY3201 - MainProgram/L3201_AerationBlower2_VFD - *19(CLR), 21(EQU)</i>			
YY3201.0	0	BOOL	
Aeration Blower 2 Intermux			
<i>YY3201.0 - MainProgram/L3201_AerationBlower2_VFD - *19(OTE)</i>			
YY3201.1	0	BOOL	
Aeration Blower 2 Intermux			
<i>YY3201.1 - MainProgram/L3201_AerationBlower2_VFD - *19(OTE)</i>			
ZA_PLC		ALRM	PLC_SH
PLC Panel Intrusion			
Constant	No		
External Access:	Read/Write		
<i>ZA_PLC - MainProgram/MainRoutine - *4(ALRM)</i>			
ZA_PLC.EnableIn	1	BOOL	
PLC Panel Intrusion Enable Input - System Defined Parameter			
ZA_PLC.EnableOut	1	BOOL	
PLC Panel Intrusion Enable Output - System Defined Parameter			
ZA_PLC.Latched	0	BOOL	
PLC Panel Intrusion			
ZA_PLC.OperReset	0	BOOL	
PLC Panel Intrusion			
ZA_PLC.ProgReset	0	BOOL	
PLC Panel Intrusion			
ZA_PLC.OperDisable	0	BOOL	

ZA_PLC (Continued)

PLC Panel Intrusion		
ZA_PLC.OperEnable	0	BOOL
PLC Panel Intrusion		
ZA_PLC.AlarmCountReset	0	BOOL
PLC Panel Intrusion Set to 1 to reset alarm count		
ZA_PLC.InAlarm	1	BOOL
PLC Panel Intrusion		
ZA_PLC.Disabled	0	BOOL
PLC Panel Intrusion		
ZA_PLC.MinDurationPRE	0	DINT
PLC Panel Intrusion		
ZA_PLC.MinDurationACC	0	DINT
PLC Panel Intrusion		
ZA_PLC.AlarmCount	29	DINT
PLC Panel Intrusion		
ZA_PLC.InAlarmDate	11072022	DINT
PLC Panel Intrusion		
ZA_PLC.InAlarmTime	92018	DINT
PLC Panel Intrusion		
ZA_PLC.RetToNormalDate	11072022	DINT
PLC Panel Intrusion		
ZA_PLC.RetToNormalTime	92018	DINT
PLC Panel Intrusion		
ZA_PLC.AlarmCountResetDate	0	DINT
PLC Panel Intrusion		
ZA_PLC.AlarmCountResetTime	0	DINT
PLC Panel Intrusion		

ZA1104 ALRM PLC_SH

Sludge Feed Pump 1 E-Stop		
Constant	No	
External Access:	Read/Write	
<i>ZA1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *11(ALRM)</i>		
ZA1104.EnableIn	0	BOOL
Sludge Feed Pump 1 E-Stop Enable Input - System Defined Parameter		
ZA1104.EnableOut	0	BOOL
Sludge Feed Pump 1 E-Stop Enable Output - System Defined Parameter		
ZA1104.Latched	0	BOOL
Sludge Feed Pump 1 E-Stop		
ZA1104.OperReset	0	BOOL
Sludge Feed Pump 1 E-Stop		
<i>ZA1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
ZA1104.ProgReset	0	BOOL
Sludge Feed Pump 1 E-Stop		
ZA1104.OperDisable	0	BOOL
Sludge Feed Pump 1 E-Stop		
ZA1104.OperEnable	0	BOOL
Sludge Feed Pump 1 E-Stop		
ZA1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 E-Stop Set to 1 to reset alarm count		
ZA1104.InAlarm	0	BOOL
Sludge Feed Pump 1 E-Stop		
<i>ZA1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
ZA1104.Disabled	0	BOOL
Sludge Feed Pump 1 E-Stop		
ZA1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 E-Stop		
ZA1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 E-Stop		
ZA1104.AlarmCount	0	DINT
Sludge Feed Pump 1 E-Stop		
ZA1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 E-Stop		

ZA1104 (Continued)			
ZA1104.InAlarmTime	0		DINT
Sludge Feed Pump 1 E-Stop			
ZA1104.RetToNormalDate	0		DINT
Sludge Feed Pump 1 E-Stop			
ZA1104.RetToNormalTime	0		DINT
Sludge Feed Pump 1 E-Stop			
ZA1104.AlarmCountResetDate	0		DINT
Sludge Feed Pump 1 E-Stop			
ZA1104.AlarmCountResetTime	0		DINT
Sludge Feed Pump 1 E-Stop			
ZA1204			ALRM
Sludge Feed Pump 2 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZA1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *11(ALRM)</i>			
ZA1204.EnableIn	0		BOOL
Sludge Feed Pump 2 E-Stop Enable Input - System Defined Parameter			
ZA1204.EnableOut	0		BOOL
Sludge Feed Pump 2 E-Stop Enable Output - System Defined Parameter			
ZA1204.Latched	0		BOOL
Sludge Feed Pump 2 E-Stop			
ZA1204.OperReset	0		BOOL
Sludge Feed Pump 2 E-Stop			
<i>ZA1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>			
ZA1204.ProgReset	0		BOOL
Sludge Feed Pump 2 E-Stop			
ZA1204.OperDisable	0		BOOL
Sludge Feed Pump 2 E-Stop			
ZA1204.OperEnable	0		BOOL
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCountReset	0		BOOL
Sludge Feed Pump 2 E-Stop Set to 1 to reset alarm count			
ZA1204.InAlarm	0		BOOL
Sludge Feed Pump 2 E-Stop			
<i>ZA1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>			
ZA1204.Disabled	0		BOOL
Sludge Feed Pump 2 E-Stop			
ZA1204.MinDurationPRE	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.MinDurationACC	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCount	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.InAlarmDate	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.InAlarmTime	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.RetToNormalDate	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.RetToNormalTime	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCountResetDate	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCountResetTime	0		DINT
Sludge Feed Pump 2 E-Stop			
ZA3101			ALRM
Aeration Blower 1 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZA3101 - MainProgram/L3101_AerationBlower1_VFD - *9(ALRM)</i>			
ZA3101.EnableIn	0		BOOL

PLC_SH

PLC_SH

ZA3101 (Continued)

Aeration Blower 1 E-Stop Enable Input - System Defined Parameter		
ZA3101.EnableOut	0	BOOL
Aeration Blower 1 E-Stop Enable Output - System Defined Parameter		
ZA3101.Latched	0	BOOL
Aeration Blower 1 E-Stop		
ZA3101.OperReset	0	BOOL
Aeration Blower 1 E-Stop		
<i>ZA3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
ZA3101.ProgReset	0	BOOL
Aeration Blower 1 E-Stop		
ZA3101.OperDisable	0	BOOL
Aeration Blower 1 E-Stop		
ZA3101.OperEnable	0	BOOL
Aeration Blower 1 E-Stop		
ZA3101.AlarmCountReset	0	BOOL
Aeration Blower 1 E-Stop Set to 1 to reset alarm count		
ZA3101.InAlarm	0	BOOL
Aeration Blower 1 E-Stop		
<i>ZA3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
ZA3101.Disabled	0	BOOL
Aeration Blower 1 E-Stop		
ZA3101.MinDurationPRE	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.MinDurationACC	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.AlarmCount	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.InAlarmDate	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.InAlarmTime	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.RefToNormalDate	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.RefToNormalTime	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 E-Stop		
ZA3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 E-Stop		

ZA3201 ALRM PLC_SH

Aeration Blower 2 E-Stop		
Constant	No	
External Access:	Read/Write	
<i>ZA3201 - MainProgram/L3201_AerationBlower2_VFD - *9(ALRM)</i>		
ZA3201.EnableIn	0	BOOL
Aeration Blower 2 E-Stop Enable Input - System Defined Parameter		
ZA3201.EnableOut	0	BOOL
Aeration Blower 2 E-Stop Enable Output - System Defined Parameter		
ZA3201.Latched	0	BOOL
Aeration Blower 2 E-Stop		
ZA3201.OperReset	0	BOOL
Aeration Blower 2 E-Stop		
<i>ZA3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
ZA3201.ProgReset	0	BOOL
Aeration Blower 2 E-Stop		
ZA3201.OperDisable	0	BOOL
Aeration Blower 2 E-Stop		
ZA3201.OperEnable	0	BOOL
Aeration Blower 2 E-Stop		
ZA3201.AlarmCountReset	0	BOOL
Aeration Blower 2 E-Stop Set to 1 to reset alarm count		
ZA3201.InAlarm	0	BOOL

ZA3201 (Continued)

Aeration Blower 2 E-Stop		
<i>ZA3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
ZA3201.Disabled	0	BOOL
Aeration Blower 2 E-Stop		
ZA3201.MinDurationPRE	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.MinDurationACC	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.AlarmCount	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.InAlarmDate	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.InAlarmTime	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.RetToNormalDate	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.RetToNormalTime	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.AlarmCountResetDate	0	DINT
Aeration Blower 2 E-Stop		
ZA3201.AlarmCountResetTime	0	DINT
Aeration Blower 2 E-Stop		

ZAC1101 ALRM PLC_SH

Solids Holding Tank 1 Control Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAC1101 - MainProgram/L1101_SHT1_ControlValve - *7(ALRM)</i>		
ZAC1101.EnableIn	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Enable Input - System Defined Parameter		
ZAC1101.EnableOut	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Enable Output - System Defined Parameter		
ZAC1101.Latched	1	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.OperReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
<i>ZAC1101.OperReset - MainProgram/L1101_SHT1_ControlValve - *9(OTL)</i>		
ZAC1101.ProgReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.OperDisable	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.OperEnable	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.AlarmCountReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Set to 1 to reset alarm count		
ZAC1101.InAlarm	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
<i>ZAC1101.InAlarm - MainProgram/L1101_SHT1_ControlValve - 10(XIO)</i>		
ZAC1101.Disabled	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.MinDurationPRE	30000	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.MinDurationACC	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.AlarmCount	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.InAlarmDate	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.InAlarmTime	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.RetToNormalDate	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAC1101.RetToNormalTime	0	DINT

ZAC1101 (Continued)

Solids Holding Tank 1 Control Valve Fail to Open
ZAC1101.AlarmCountResetDate 0 DINT
 Solids Holding Tank 1 Control Valve Fail to Open
ZAC1101.AlarmCountResetTime 0 DINT
 Solids Holding Tank 1 Control Valve Fail to Open

ZAC1201 ALRM PLC_SH

Solids Holding Tank 2 Control Valve Fail to Open
 Constant No
 External Access: Read/Write
*ZAC1201 - MainProgram/L1201_SHT2_ControlValve - *7(ALRM)*
ZAC1201.EnableIn 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open Enable Input - System Defined Parameter
ZAC1201.EnableOut 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open Enable Output - System Defined Parameter
ZAC1201.Latched 1 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.OperReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
*ZAC1201.OperReset - MainProgram/L1201_SHT2_ControlValve - *9(OTL)*
ZAC1201.ProgReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.OperDisable 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.OperEnable 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCountReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open Set to 1 to reset alarm count
ZAC1201.InAlarm 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.InAlarm - MainProgram/L1201_SHT2_ControlValve - 10(XIO)
ZAC1201.Disabled 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.MinDurationPRE 30000 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.MinDurationACC 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCount 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.InAlarmDate 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.InAlarmTime 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.RetToNormalDate 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.RetToNormalTime 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCountResetDate 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCountResetTime 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open

ZAC2101 ALRM PLC_SH

Press 1 Sludge Valve Fail to Open
 Constant No
 External Access: Read/Write
*ZAC2101 - MainProgram/L2101_Press1_SludgeValve - *7(ALRM)*
ZAC2101.EnableIn 0 BOOL
 Press 1 Sludge Valve Fail to Open Enable Input - System Defined Parameter
ZAC2101.EnableOut 0 BOOL
 Press 1 Sludge Valve Fail to Open Enable Output - System Defined Parameter
ZAC2101.Latched 1 BOOL
 Press 1 Sludge Valve Fail to Open

ZAC2101 (Continued)

ZAC2101.OperReset	0	BOOL
Press 1 Sludge Valve Fail to Open		
<i>ZAC2101.OperReset - MainProgram/L2101_Press1_SludgeValve - *9(OTL)</i>		
ZAC2101.ProgReset	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAC2101.OperDisable	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAC2101.OperEnable	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCountReset	0	BOOL
Press 1 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAC2101.InAlarm	0	BOOL
Press 1 Sludge Valve Fail to Open		
<i>ZAC2101.InAlarm - MainProgram/L2101_Press1_SludgeValve - 10(XIO)</i>		
ZAC2101.Disabled	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAC2101.MinDurationPRE	30000	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.MinDurationACC	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCount	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.InAlarmDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.InAlarmTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.RetToNormalDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.RetToNormalTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCountResetDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCountResetTime	0	DINT
Press 1 Sludge Valve Fail to Open		

ZAC2201 ALRM PLC_SH

Press 2 Sludge Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAC2201 - MainProgram/L2201_Press2_SludgeValve - *7(ALRM)</i>		
ZAC2201.EnableIn	0	BOOL
Press 2 Sludge Valve Fail to Open Enable Input - System Defined Parameter		
ZAC2201.EnableOut	0	BOOL
Press 2 Sludge Valve Fail to Open Enable Output - System Defined Parameter		
ZAC2201.Latched	1	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.OperReset	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAC2201.OperReset - MainProgram/L2201_Press2_SludgeValve - *9(OTL)</i>		
ZAC2201.ProgReset	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.OperDisable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.OperEnable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCountReset	0	BOOL
Press 2 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAC2201.InAlarm	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAC2201.InAlarm - MainProgram/L2201_Press2_SludgeValve - 10(XIO)</i>		
ZAC2201.Disabled	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.MinDurationPRE	30000	DINT

ZAC2201 (Continued)

Press 2 Sludge Valve Fail to Open		
ZAC2201.MinDurationACC	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCount	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.InAlarmDate	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.InAlarmTime	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.RefToNormalDate	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.RefToNormalTime	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCountResetDate	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCountResetTime	0	DINT
Press 2 Sludge Valve Fail to Open		

ZAO1101 ALRM PLC_SH

Solids Holding Tank 1 Control Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAO1101 - MainProgram/L1101_SHT1_ControlValve - *6(ALRM)</i>		
ZAO1101.EnableIn	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Enable Input - System Defined Parameter		
ZAO1101.EnableOut	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Enable Output - System Defined Parameter		
ZAO1101.Latched	1	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.OperReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
<i>ZAO1101.OperReset - MainProgram/L1101_SHT1_ControlValve - *9(OTL)</i>		
ZAO1101.ProgReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.OperDisable	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.OperEnable	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.AlarmCountReset	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open Set to 1 to reset alarm count		
ZAO1101.InAlarm	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
<i>ZAO1101.InAlarm - MainProgram/L1101_SHT1_ControlValve - 10(XIO)</i>		
ZAO1101.Disabled	0	BOOL
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.MinDurationPRE	30000	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.MinDurationACC	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.AlarmCount	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.InAlarmDate	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.InAlarmTime	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.RefToNormalDate	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.RefToNormalTime	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.AlarmCountResetDate	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		
ZAO1101.AlarmCountResetTime	0	DINT
Solids Holding Tank 1 Control Valve Fail to Open		

PLC_SH (Controller)	ALRM	PLC_SH
ZAO1201		
Solids Holding Tank 2 Control Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAO1201 - MainProgram/L1201_SHT2_ControlValve - *6(ALRM)</i>		
ZAO1201.EnableIn	0	BOOL
Solids Holding Tank 2 Control Valve Fail to Open Enable Input - System Defined Parameter		
ZAO1201.EnableOut	0	BOOL
Solids Holding Tank 2 Control Valve Fail to Open Enable Output - System Defined Parameter		
ZAO1201.Latched	1	BOOL
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.OperReset	0	BOOL
Solids Holding Tank 2 Control Valve Fail to Open		
<i>ZAO1201.OperReset - MainProgram/L1201_SHT2_ControlValve - *9(OTL)</i>		
ZAO1201.ProgReset	0	BOOL
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.OperDisable	0	BOOL
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.OperEnable	0	BOOL
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.AlarmCountReset	0	BOOL
Solids Holding Tank 2 Control Valve Fail to Open Set to 1 to reset alarm count		
ZAO1201.InAlarm	0	BOOL
Solids Holding Tank 2 Control Valve Fail to Open		
<i>ZAO1201.InAlarm - MainProgram/L1201_SHT2_ControlValve - 10(XIO)</i>		
ZAO1201.Disabled	0	BOOL
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.MinDurationPRE	30000	DINT
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.MinDurationACC	0	DINT
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.AlarmCount	0	DINT
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.InAlarmDate	0	DINT
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.InAlarmTime	0	DINT
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.RetToNormalDate	0	DINT
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.RetToNormalTime	0	DINT
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.AlarmCountResetDate	0	DINT
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO1201.AlarmCountResetTime	0	DINT
Solids Holding Tank 2 Control Valve Fail to Open		
ZAO2101		
Press 1 Sludge Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAO2101 - MainProgram/L2101_Press1_SludgeValve - *6(ALRM)</i>		
ZAO2101.EnableIn	0	BOOL
Press 1 Sludge Valve Fail to Open Enable Input - System Defined Parameter		
ZAO2101.EnableOut	0	BOOL
Press 1 Sludge Valve Fail to Open Enable Output - System Defined Parameter		
ZAO2101.Latched	1	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.OperReset	0	BOOL
Press 1 Sludge Valve Fail to Open		
<i>ZAO2101.OperReset - MainProgram/L2101_Press1_SludgeValve - *9(OTL)</i>		
ZAO2101.ProgReset	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.OperDisable	0	BOOL
Press 1 Sludge Valve Fail to Open		

ZAO2101 (Continued)		
ZAO2101.OperEnable	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.AlarmCountReset	0	BOOL
Press 1 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAO2101.InAlarm	0	BOOL
Press 1 Sludge Valve Fail to Open		
<i>ZAO2101.InAlarm - MainProgram/L2101_Press1_SludgeValve - 10(XIO)</i>		
ZAO2101.Disabled	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.MinDurationPRE	30000	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.MinDurationACC	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.AlarmCount	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.InAlarmDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.InAlarmTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.RetToNormalDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.RetToNormalTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.AlarmCountResetDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.AlarmCountResetTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2201		ALRM PLC_SH
Press 2 Sludge Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAO2201 - MainProgram/L2201_Press2_SludgeValve - *6(ALRM)</i>		
ZAO2201.EnableIn	0	BOOL
Press 2 Sludge Valve Fail to Open Enable Input - System Defined Parameter		
ZAO2201.EnableOut	0	BOOL
Press 2 Sludge Valve Fail to Open Enable Output - System Defined Parameter		
ZAO2201.Latched	1	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.OperReset	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAO2201.OperReset - MainProgram/L2201_Press2_SludgeValve - *9(OTL)</i>		
ZAO2201.ProgReset	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.OperDisable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.OperEnable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.AlarmCountReset	0	BOOL
Press 2 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAO2201.InAlarm	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAO2201.InAlarm - MainProgram/L2201_Press2_SludgeValve - 10(XIO)</i>		
ZAO2201.Disabled	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.MinDurationPRE	30000	DINT
Press 2 Sludge Valve Fail to Open		
ZAO2201.MinDurationACC	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAO2201.AlarmCount	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAO2201.InAlarmDate	0	DINT
Press 2 Sludge Valve Fail to Open		

ZAO2201 (Continued)			
ZAO2201.InAlarmTime	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.RetToNormalDate	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.RetToNormalTime	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.AlarmCountResetDate	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.AlarmCountResetTime	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZI1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1101 - MainProgram/L1101_SHT1_ControlValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)</i>			
ZI1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *2(OTE), 19(XIC), 9(XIC)</i>			
ZI1104A	0	BOOL	PLC_SH
Sludge Feed Pump 1 VFD Ready			
Constant	No		
External Access:	Read/Write		
<i>ZI1104A - MainProgram/L1104_SludgeFeedPump1_VFD - *1(OTE)</i>			
ZI1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1201 - MainProgram/L1201_SHT2_ControlValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)</i>			
ZI1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *2(OTE), 19(XIC), 9(XIC)</i>			
ZI1204A	0	BOOL	PLC_SH
Sluge Feed Pump 2 VFD Ready			
Constant	No		
External Access:	Read/Write		
<i>ZI1204A - MainProgram/L1204_SludgeFeedPump2_VFD - *1(OTE)</i>			
ZI2101	0	BOOL	PLC_SH
Press 1 Sludge Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI2101 - MainProgram/L2101_Press1_SludgeValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)</i>			
ZI2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI2106 - MainProgram/L2106_ScrewPressConveyor1 - *0(OTE), 6(XIC), 9(XIC)</i>			
ZI2201	0	BOOL	PLC_SH
Press 2 Sludge Valve Remote			
Constant	No		
External Access:	Read/Write		

ZI2201 (Continued)

ZI2201 - MainProgram/L2201_Press2_SludgeValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)

ZI2206 0 BOOL PLC_SH

Screw Press Conveyor 2 In Remote

Constant No

External Access: Read/Write

ZI2206 - MainProgram/L2206_ScrewPressConveyor2 - *0(OTE), 6(XIC), 9(XIC)

ZI3101 0 BOOL PLC_SH

Aeration Blower 1 In Remote

Constant No

External Access: Read/Write

ZI3101 - MainProgram/L3101_AerationBlower1_VFD - *0(OTE), 18(XIC), 7(XIC)

ZI3201 0 BOOL PLC_SH

Aeration Blower 2 In Remote

Constant No

External Access: Read/Write

ZI3201 - MainProgram/L3201_AerationBlower2_VFD - *0(OTE), 18(XIC), 7(XIC)

ZIC1101 0 BOOL PLC_SH

Solids Holding Tank 1 Control Valve Closed

Constant No

External Access: Read/Write

ZIC1101 - MainProgram/L1101_SHT1_ControlValve - *2(OTE), 7(XIO)

ZIC1201 0 BOOL PLC_SH

Solids Holding Tank 2 Control Valve Closed

Constant No

External Access: Read/Write

ZIC1201 - MainProgram/L1201_SHT2_ControlValve - *2(OTE), 7(XIO)

ZIC2101 0 BOOL PLC_SH

Press 1 Sludge Valve Closed

Constant No

External Access: Read/Write

ZIC2101 - MainProgram/L2101_Press1_SludgeValve - *2(OTE), 7(XIO)

ZIC2201 0 BOOL PLC_SH

Press 2 Sludge Valve Closed

Constant No

External Access: Read/Write

ZIC2201 - MainProgram/L2201_Press2_SludgeValve - *2(OTE), 7(XIO)

ZIO1101 0 BOOL PLC_SH

Solids Holding Tank 1 Control Valve Open

Constant No

External Access: Read/Write

ZIO1101 - MainProgram/L1100_PressControl - 0(XIO)

ZIO1101 - MainProgram/L1101_SHT1_ControlValve - *1(OTE), 6(XIO)

ZIO1201 0 BOOL PLC_SH

Solids Holding Tank 2 Control Valve Open

Constant No

External Access: Read/Write

ZIO1201 - MainProgram/L1100_PressControl - 1(XIO)

ZIO1201 - MainProgram/L1201_SHT2_ControlValve - *1(OTE), 6(XIO)

ZIO2101 0 BOOL PLC_SH

Press 1 Sludge Valve Open

Constant No

External Access: Read/Write

ZIO2101 - MainProgram/Communications - 30(XIC)

ZIO2101 (Continued)*ZIO2101 - MainProgram/L1100_PressControl - 7(XIC)**ZIO2101 - MainProgram/L2101_Press1_SludgeValve - *1(OTE), 6(XIO)*

ZIO2201	0	BOOL	PLC_SH
Press 2 Sludge Valve Open			
Constant	No		
External Access:	Read/Write		
<i>ZIO2201 - MainProgram/Communications - 30(XIC)</i>			
<i>ZIO2201 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>ZIO2201 - MainProgram/L2201_Press2_SludgeValve - *1(OTE), 6(XIO)</i>			
ZS1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 11(XIC)</i>			
ZS1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 11(XIC)</i>			
ZS3101	0	BOOL	PLC_SH
Aeration Blower 1 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZS3101 - MainProgram/L3101_AerationBlower1_VFD - 9(XIC)</i>			
ZS3201	0	BOOL	PLC_SH
Aeration Blower 2 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZS3201 - MainProgram/L3201_AerationBlower2_VFD - 9(XIC)</i>			

General

Configuration

Type:	Continuous	Disable automatic output processing to reduce task overhead:	No
Watchdog:	500.000 ms	Inhibit task:	No

Program Schedule

Scheduled

MainProgram

Unscheduled

Monitor

Scan Times(Elapsed Time)

Max: 12.119000 ms Last: 9.904000 ms



Interval Times(Elapsed Times Between Triggers)

Max: 12.133000 ms Min: 7.289000 ms

Task overlap count: 0

General

Configuration

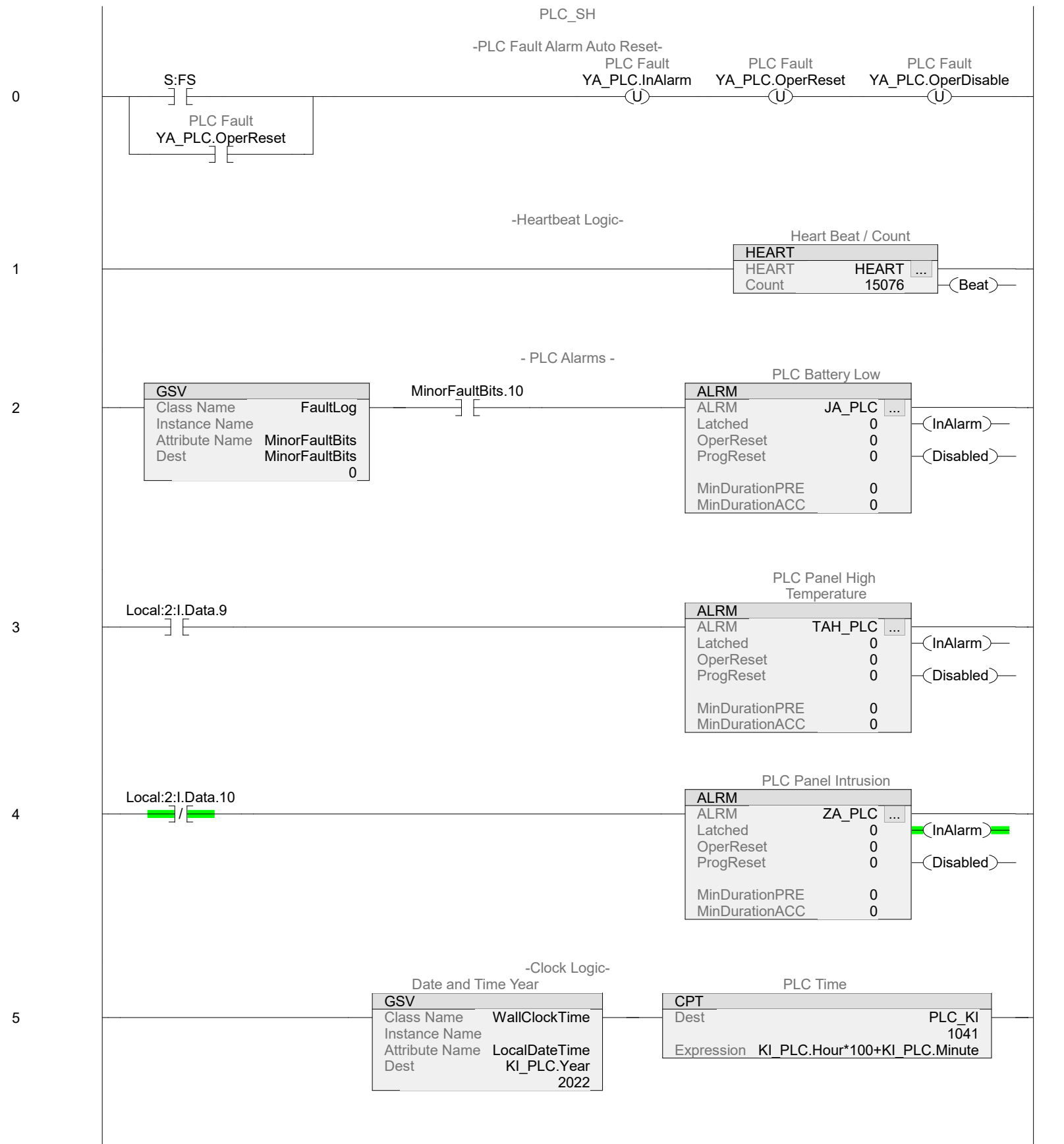
Main:	 MainRoutine	Inhibit program:	No
Fault:	 PLCFault	Synchronize redundancy data after execution :	Yes

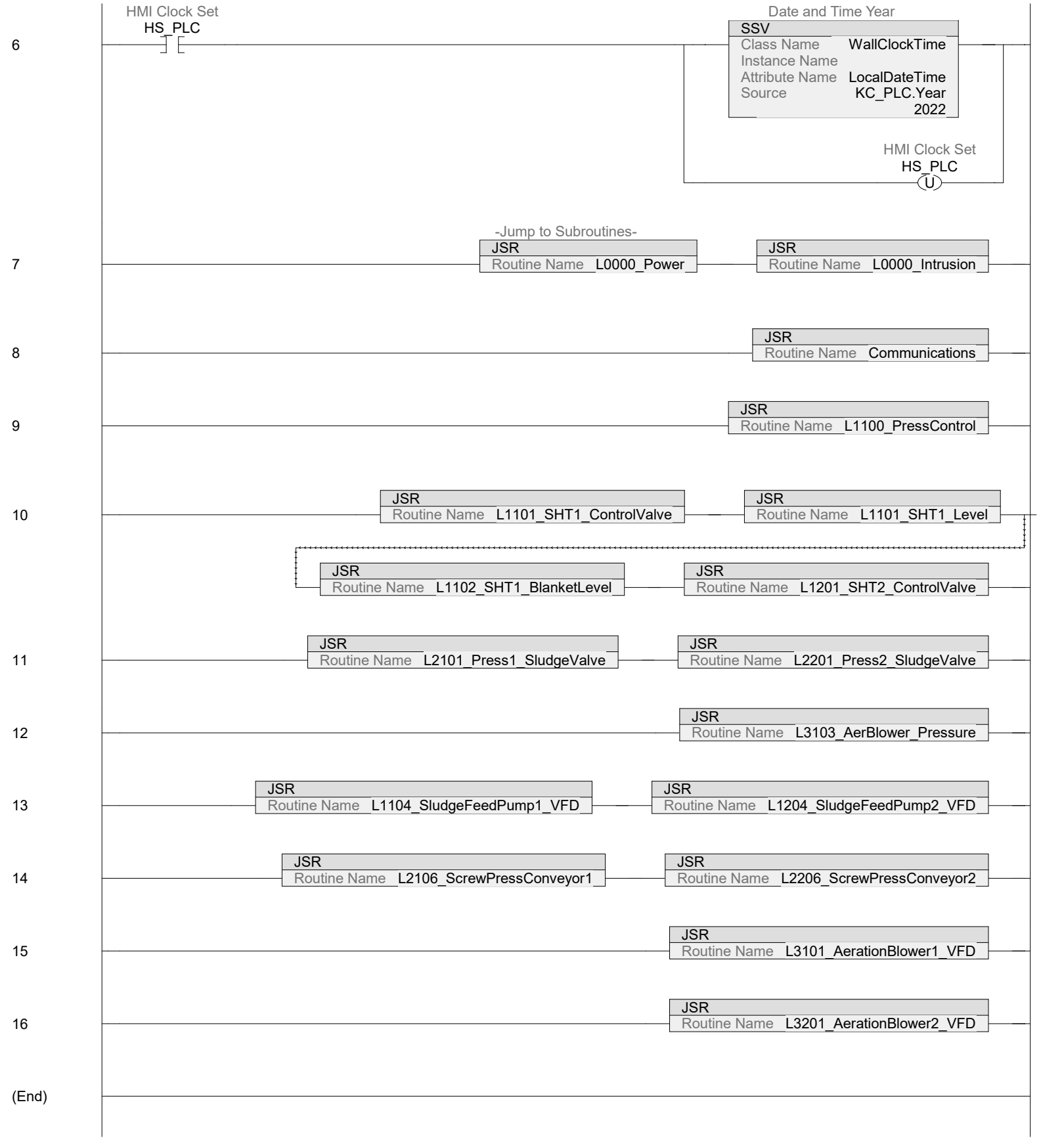
Monitor

Scan Times(Execution Time)

Max:	6878 us	Last:	6524 us
------	---------	-------	---------

Name	Value	Data Type	Scope
No Tags Exist			





Name	Value	Data Type	Scope
HEART		HEART	PLC_SH
Heart Beat / Count			
Constant	No		
External Access:	Read/Write		
<i>HEART - MainProgram/MainRoutine - *1(HEART)</i>			
HEART.EnableIn	1	BOOL	
Heart Beat / Count Enable Input - System Defined Parameter			
HEART.EnableOut	1	BOOL	
Heart Beat / Count Enable Output - System Defined Parameter			
HEART.Beat	0	BOOL	
Heart Beat / Count			
<i>HEART.Beat - MainProgram/Communications - 0(XIC), 15(XIC)</i>			
HEART.Count	15076	DINT	
Heart Beat / Count			
<i>HEART.Count - MainProgram/Communications - 31(MOV)</i>			
HEART.BeatSP	0	DINT	
Heart Beat / Count Beat Set Point (Seconds)			
HS_PLC	0	BOOL	PLC_SH
HMI Clock Set			
Constant	No		
External Access:	Read/Write		
<i>HS_PLC - MainProgram/MainRoutine - *6(OTU), 6(XIC)</i>			
JA_PLC		ALRM	PLC_SH
PLC Battery Low			
Constant	No		
External Access:	Read/Write		
<i>JA_PLC - MainProgram/MainRoutine - *2(ALRM)</i>			
JA_PLC.EnableIn	0	BOOL	
PLC Battery Low Enable Input - System Defined Parameter			
JA_PLC.EnableOut	0	BOOL	
PLC Battery Low Enable Output - System Defined Parameter			
JA_PLC.Latched	0	BOOL	
PLC Battery Low			
JA_PLC.OperReset	0	BOOL	
PLC Battery Low			
JA_PLC.ProgReset	0	BOOL	
PLC Battery Low			
JA_PLC.OperDisable	0	BOOL	
PLC Battery Low			
JA_PLC.OperEnable	0	BOOL	
PLC Battery Low			
JA_PLC.AlarmCountReset	0	BOOL	
PLC Battery Low Set to 1 to reset alarm count			
JA_PLC.InAlarm	0	BOOL	
PLC Battery Low			
JA_PLC.Disabled	0	BOOL	
PLC Battery Low			
JA_PLC.MinDurationPRE	0	DINT	
PLC Battery Low			
JA_PLC.MinDurationACC	0	DINT	
PLC Battery Low			
JA_PLC.AlarmCount	0	DINT	
PLC Battery Low			
JA_PLC.InAlarmDate	0	DINT	
PLC Battery Low			
JA_PLC.InAlarmTime	0	DINT	
PLC Battery Low			
JA_PLC.RetToNormalDate	0	DINT	
PLC Battery Low			
JA_PLC.RetToNormalTime	0	DINT	
PLC Battery Low			

JA_PLC (Continued)			
JA_PLC.AlarmCountResetDate	0	DINT	
PLC Battery Low			
JA_PLC.AlarmCountResetTime	0	DINT	
PLC Battery Low			
KC_PLC		DateTime	PLC_SH
Date and Time			
Constant	No		
External Access:	Read/Write		
<i>KC_PLC - MainProgram/MainRoutine - 6(SSV)</i>			
KC_PLC.Year	2022	DINT	
Date and Time Year			
KC_PLC.Month	11	DINT	
Date and Time Month (1 - 12)			
KC_PLC.Day	7	DINT	
Date and Time Day (1 - 31)			
KC_PLC.Hour	9	DINT	
Date and Time Hour (0 - 23)			
KC_PLC.Minute	9	DINT	
Date and Time Minute (0 - 59)			
KC_PLC.Second	27	DINT	
Date and Time Second (0 - 59)			
KC_PLC.MicroSecond	0	DINT	
Date and Time Microsecond (0 - 999,999)			
KI_PLC		DateTime	PLC_SH
Date and Time			
Constant	No		
External Access:	Read/Write		
KI_PLC.Year	2022	DINT	
Date and Time Year			
<i>KI_PLC.Year - MainProgram/MainRoutine - *5(GSV)</i>			
KI_PLC.Month	11	DINT	
Date and Time Month (1 - 12)			
KI_PLC.Day	7	DINT	
Date and Time Day (1 - 31)			
KI_PLC.Hour	10	DINT	
Date and Time Hour (0 - 23)			
<i>KI_PLC.Hour - MainProgram/MainRoutine - 5(CPT)</i>			
KI_PLC.Minute	41	DINT	
Date and Time Minute (0 - 59)			
<i>KI_PLC.Minute - MainProgram/MainRoutine - 5(CPT)</i>			
KI_PLC.Second	58	DINT	
Date and Time Second (0 - 59)			
KI_PLC.MicroSecond	324278	DINT	
Date and Time Microsecond (0 - 999,999)			
Local:2:I		AB:1769_DI16:I:0	PLC_SH
Constant			
Constant	No		
External Access:	Read/Write		
Local:2:I.Data.0	0	BOOL	
<i>Local:2:I.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - 0(XIC)</i>			
Local:2:I.Data.1	0	BOOL	
<i>Local:2:I.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - 1(XIC)</i>			
Local:2:I.Data.2	0	BOOL	
<i>Local:2:I.Data.2 - MainProgram/L2106_ScrewPressConveyor1 - 2(XIC)</i>			
Local:2:I.Data.3	0	BOOL	
<i>Local:2:I.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - 0(XIC)</i>			
Local:2:I.Data.4	0	BOOL	
<i>Local:2:I.Data.4 - MainProgram/L2206_ScrewPressConveyor2 - 1(XIC)</i>			
Local:2:I.Data.5	0	BOOL	
<i>Local:2:I.Data.5 - MainProgram/L2206_ScrewPressConveyor2 - 2(XIC)</i>			
Local:2:I.Data.9	0	BOOL	

Local:2:I (Continued)			
<i>Local:2:I.Data.9 - MainProgram/L0000_Power - 0(XIC)</i>			
<i>Local:2:I.Data.9 - MainProgram/MainRoutine - 3(XIC)</i>			
Local:2:I.Data.10	0	BOOL	
<i>Local:2:I.Data.10 - MainProgram/L0000_Intrusion - 0(XIC)</i>			
<i>Local:2:I.Data.10 - MainProgram/MainRoutine - 4(XIO)</i>			
Local:2:I.Data.11	0	BOOL	
<i>Local:2:I.Data.11 - MainProgram/L0000_Power - 1(XIC)</i>			
Local:2:I.Data.12	1	BOOL	
<i>Local:2:I.Data.12 - MainProgram/L0000_Power - 2(XIO)</i>			
Local:2:I.Data.13	1	BOOL	
<i>Local:2:I.Data.13 - MainProgram/L0000_Power - 3(XIO)</i>			
Local:2:I.Data.14	1	BOOL	
<i>Local:2:I.Data.14 - MainProgram/L0000_Power - 4(XIO)</i>			
Local:2:I.Data.15	0	BOOL	
<i>Local:2:I.Data.15 - MainProgram/L0000_Power - 5(XIC)</i>			
MinorFaultBits	0	DINT	PLC_SH
Constant No			
External Access: Read/Write			
<i>MinorFaultBits - MainProgram/MainRoutine - *2(GSV)</i>			
MinorFaultBits.10	0	BOOL	
<i>MinorFaultBits.10 - MainProgram/MainRoutine - 2(XIC)</i>			
PLC_KI	1041	DINT	PLC_SH
PLC Time			
Constant No			
External Access: Read/Write			
<i>PLC_KI - MainProgram/MainRoutine - *5(CPT)</i>			
TAH_PLC		ALRM	PLC_SH
PLC Panel High Temperature			
Constant No			
External Access: Read/Write			
<i>TAH_PLC - MainProgram/MainRoutine - *3(ALRM)</i>			
TAH_PLC.EnableIn	0	BOOL	
PLC Panel High Temperature Enable Input - System Defined Parameter			
TAH_PLC.EnableOut	0	BOOL	
PLC Panel High Temperature Enable Output - System Defined Parameter			
TAH_PLC.Latched	0	BOOL	
PLC Panel High Temperature			
TAH_PLC.OperReset	0	BOOL	
PLC Panel High Temperature			
TAH_PLC.ProgReset	0	BOOL	
PLC Panel High Temperature			
TAH_PLC.OperDisable	0	BOOL	
PLC Panel High Temperature			
TAH_PLC.OperEnable	0	BOOL	
PLC Panel High Temperature			
TAH_PLC.AlarmCountReset	0	BOOL	
PLC Panel High Temperature Set to 1 to reset alarm count			
TAH_PLC.InAlarm	0	BOOL	
PLC Panel High Temperature			
TAH_PLC.Disabled	0	BOOL	
PLC Panel High Temperature			
TAH_PLC.MinDurationPRE	0	DINT	
PLC Panel High Temperature			
TAH_PLC.MinDurationACC	0	DINT	
PLC Panel High Temperature			
TAH_PLC.AlarmCount	0	DINT	
PLC Panel High Temperature			
TAH_PLC.InAlarmDate	0	DINT	
PLC Panel High Temperature			
TAH_PLC.InAlarmTime	0	DINT	

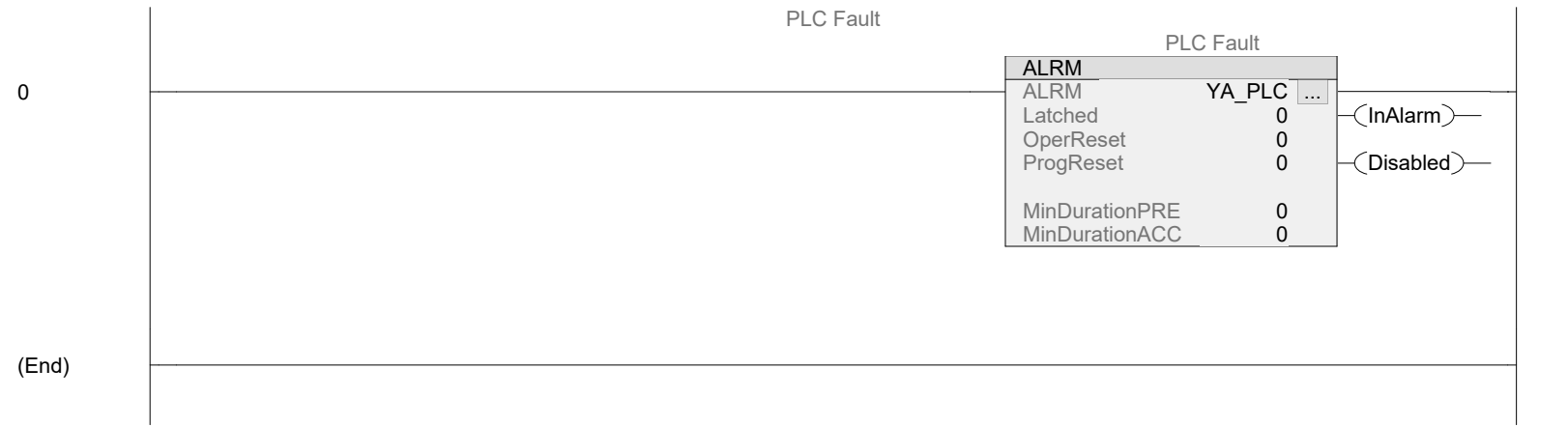
TAH_PLC (Continued)			
PLC Panel High Temperature			
TAH_PLC.RetToNormalDate	0	DINT	
PLC Panel High Temperature			
TAH_PLC.RetToNormalTime	0	DINT	
PLC Panel High Temperature			
TAH_PLC.AlarmCountResetDate	0	DINT	
PLC Panel High Temperature			
TAH_PLC.AlarmCountResetTime	0	DINT	
PLC Panel High Temperature			
YA_PLC		ALRM	PLC_SH
PLC Fault			
Constant	No		
External Access:	Read/Write		
<i>YA_PLC - MainProgram/PLCFault - *0(ALRM)</i>			
YA_PLC.EnableIn	0	BOOL	
PLC Fault Enable Input - System Defined Parameter			
YA_PLC.EnableOut	0	BOOL	
PLC Fault Enable Output - System Defined Parameter			
YA_PLC.Latched	0	BOOL	
PLC Fault			
YA_PLC.OperReset	0	BOOL	
PLC Fault			
<i>YA_PLC.OperReset - MainProgram/MainRoutine - *0(OTU), 0(XIC)</i>			
YA_PLC.ProgReset	0	BOOL	
PLC Fault			
YA_PLC.OperDisable	0	BOOL	
PLC Fault			
<i>YA_PLC.OperDisable - MainProgram/MainRoutine - *0(OTU)</i>			
YA_PLC.OperEnable	0	BOOL	
PLC Fault			
YA_PLC.AlarmCountReset	0	BOOL	
PLC Fault Set to 1 to reset alarm count			
YA_PLC.InAlarm	0	BOOL	
PLC Fault			
<i>YA_PLC.InAlarm - MainProgram/MainRoutine - *0(OTU)</i>			
YA_PLC.Disabled	0	BOOL	
PLC Fault			
YA_PLC.MinDurationPRE	0	DINT	
PLC Fault			
YA_PLC.MinDurationACC	0	DINT	
PLC Fault			
YA_PLC.AlarmCount	0	DINT	
PLC Fault			
YA_PLC.InAlarmDate	0	DINT	
PLC Fault			
YA_PLC.InAlarmTime	0	DINT	
PLC Fault			
YA_PLC.RetToNormalDate	0	DINT	
PLC Fault			
YA_PLC.RetToNormalTime	0	DINT	
PLC Fault			
YA_PLC.AlarmCountResetDate	0	DINT	
PLC Fault			
YA_PLC.AlarmCountResetTime	0	DINT	
PLC Fault			
ZA_PLC		ALRM	PLC_SH
PLC Panel Intrusion			
Constant	No		
External Access:	Read/Write		
<i>ZA_PLC - MainProgram/MainRoutine - *4(ALRM)</i>			
ZA_PLC.EnableIn	1	BOOL	

ZA_PLC (Continued)

PLC Panel Intrusion Enable Input - System Defined Parameter		
ZA_PLC.EnableOut	1	BOOL
PLC Panel Intrusion Enable Output - System Defined Parameter		
ZA_PLC.Latched	0	BOOL
PLC Panel Intrusion		
ZA_PLC.OperReset	0	BOOL
PLC Panel Intrusion		
ZA_PLC.ProgReset	0	BOOL
PLC Panel Intrusion		
ZA_PLC.OperDisable	0	BOOL
PLC Panel Intrusion		
ZA_PLC.OperEnable	0	BOOL
PLC Panel Intrusion		
ZA_PLC.AlarmCountReset	0	BOOL
PLC Panel Intrusion Set to 1 to reset alarm count		
ZA_PLC.InAlarm	1	BOOL
PLC Panel Intrusion		
ZA_PLC.Disabled	0	BOOL
PLC Panel Intrusion		
ZA_PLC.MinDurationPRE	0	DINT
PLC Panel Intrusion		
ZA_PLC.MinDurationACC	0	DINT
PLC Panel Intrusion		
ZA_PLC.AlarmCount	29	DINT
PLC Panel Intrusion		
ZA_PLC.InAlarmDate	11072022	DINT
PLC Panel Intrusion		
ZA_PLC.InAlarmTime	92018	DINT
PLC Panel Intrusion		
ZA_PLC.RetToNormalDate	11072022	DINT
PLC Panel Intrusion		
ZA_PLC.RetToNormalTime	92018	DINT
PLC Panel Intrusion		
ZA_PLC.AlarmCountResetDate	0	DINT
PLC Panel Intrusion		
ZA_PLC.AlarmCountResetTime	0	DINT
PLC Panel Intrusion		

General

Type:	 Ladder Diagram	Number of Rungs:	17
In Program:	 MainProgram		

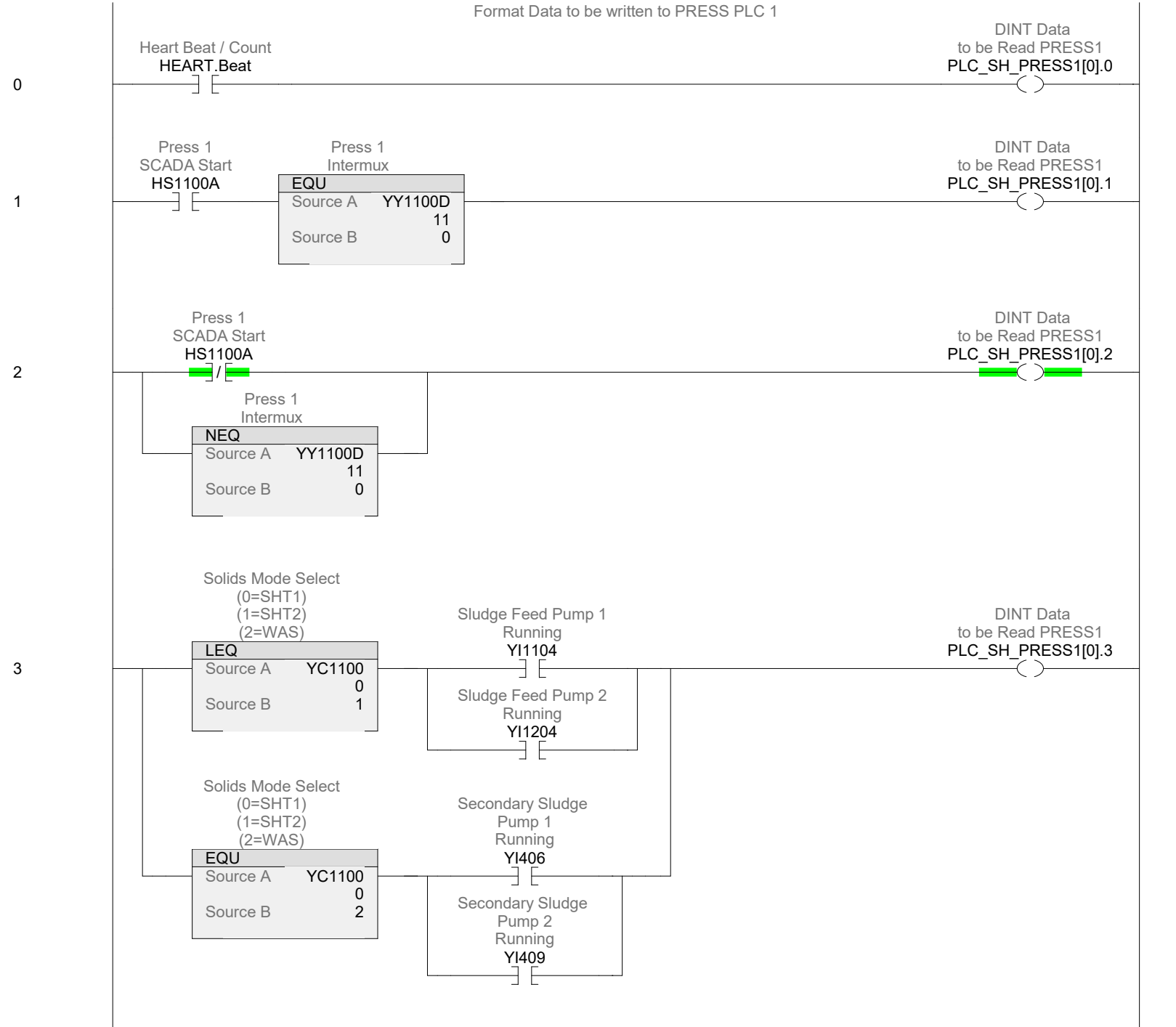


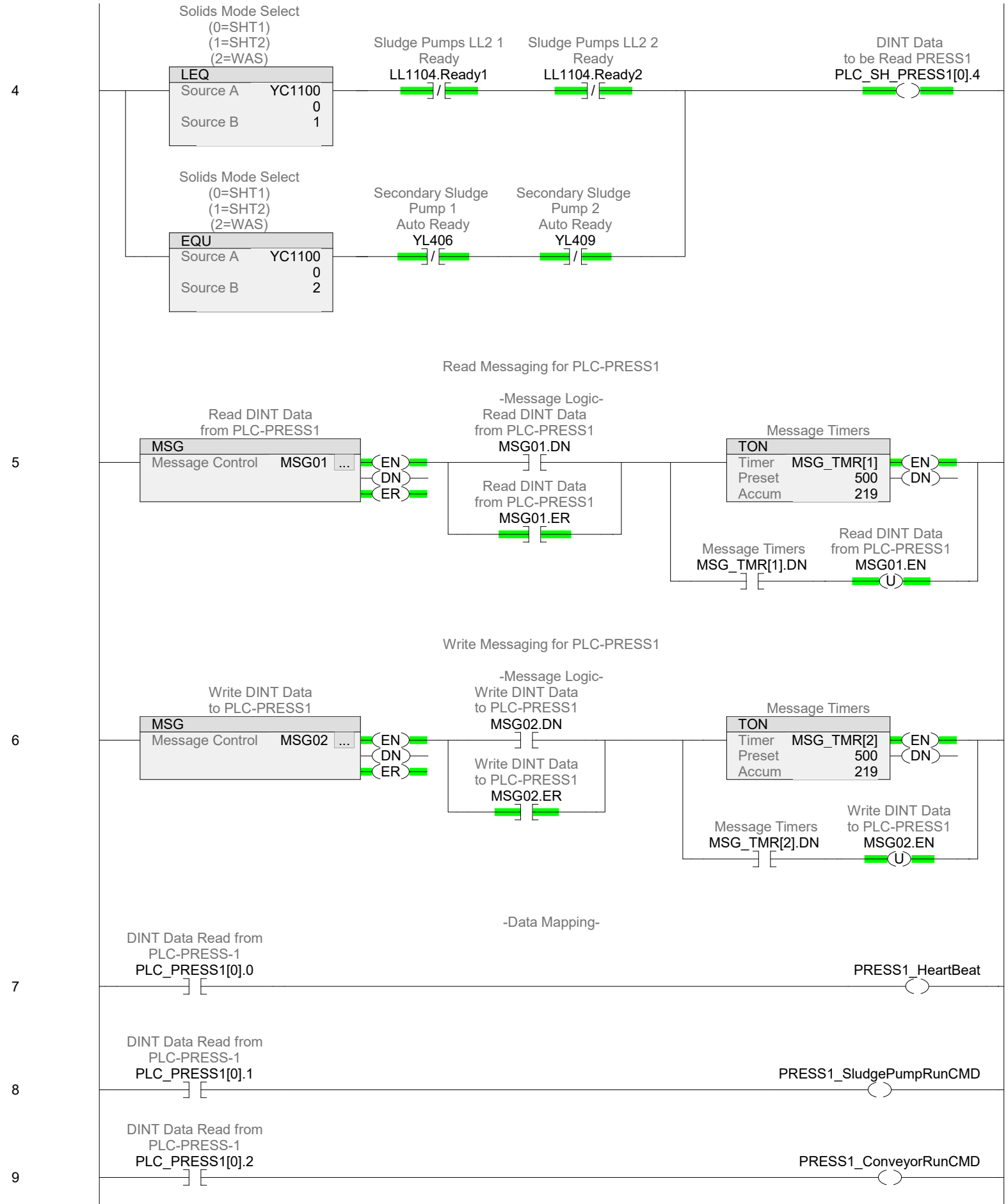
Name	Value	Data Type	Scope
YA_PLC		ALRM	PLC_SH
PLC Fault			
Constant	No		
External Access:	Read/Write		
<i>YA_PLC - MainProgram/PLCFault - *0(ALRM)</i>			
YA_PLC.EnableIn	0	BOOL	
PLC Fault Enable Input - System Defined Parameter			
YA_PLC.EnableOut	0	BOOL	
PLC Fault Enable Output - System Defined Parameter			
YA_PLC.Latched	0	BOOL	
PLC Fault			
YA_PLC.OperReset	0	BOOL	
PLC Fault			
<i>YA_PLC.OperReset - MainProgram/MainRoutine - *0(OTU), 0(XIC)</i>			
YA_PLC.ProgReset	0	BOOL	
PLC Fault			
YA_PLC.OperDisable	0	BOOL	
PLC Fault			
<i>YA_PLC.OperDisable - MainProgram/MainRoutine - *0(OTU)</i>			
YA_PLC.OperEnable	0	BOOL	
PLC Fault			
YA_PLC.AlarmCountReset	0	BOOL	
PLC Fault Set to 1 to reset alarm count			
YA_PLC.InAlarm	0	BOOL	
PLC Fault			
<i>YA_PLC.InAlarm - MainProgram/MainRoutine - *0(OTU)</i>			
YA_PLC.Disabled	0	BOOL	
PLC Fault			
YA_PLC.MinDurationPRE	0	DINT	
PLC Fault			
YA_PLC.MinDurationACC	0	DINT	
PLC Fault			
YA_PLC.AlarmCount	0	DINT	
PLC Fault			
YA_PLC.InAlarmDate	0	DINT	
PLC Fault			
YA_PLC.InAlarmTime	0	DINT	
PLC Fault			
YA_PLC.RetToNormalDate	0	DINT	
PLC Fault			
YA_PLC.RetToNormalTime	0	DINT	
PLC Fault			
YA_PLC.AlarmCountResetDate	0	DINT	
PLC Fault			
YA_PLC.AlarmCountResetTime	0	DINT	
PLC Fault			

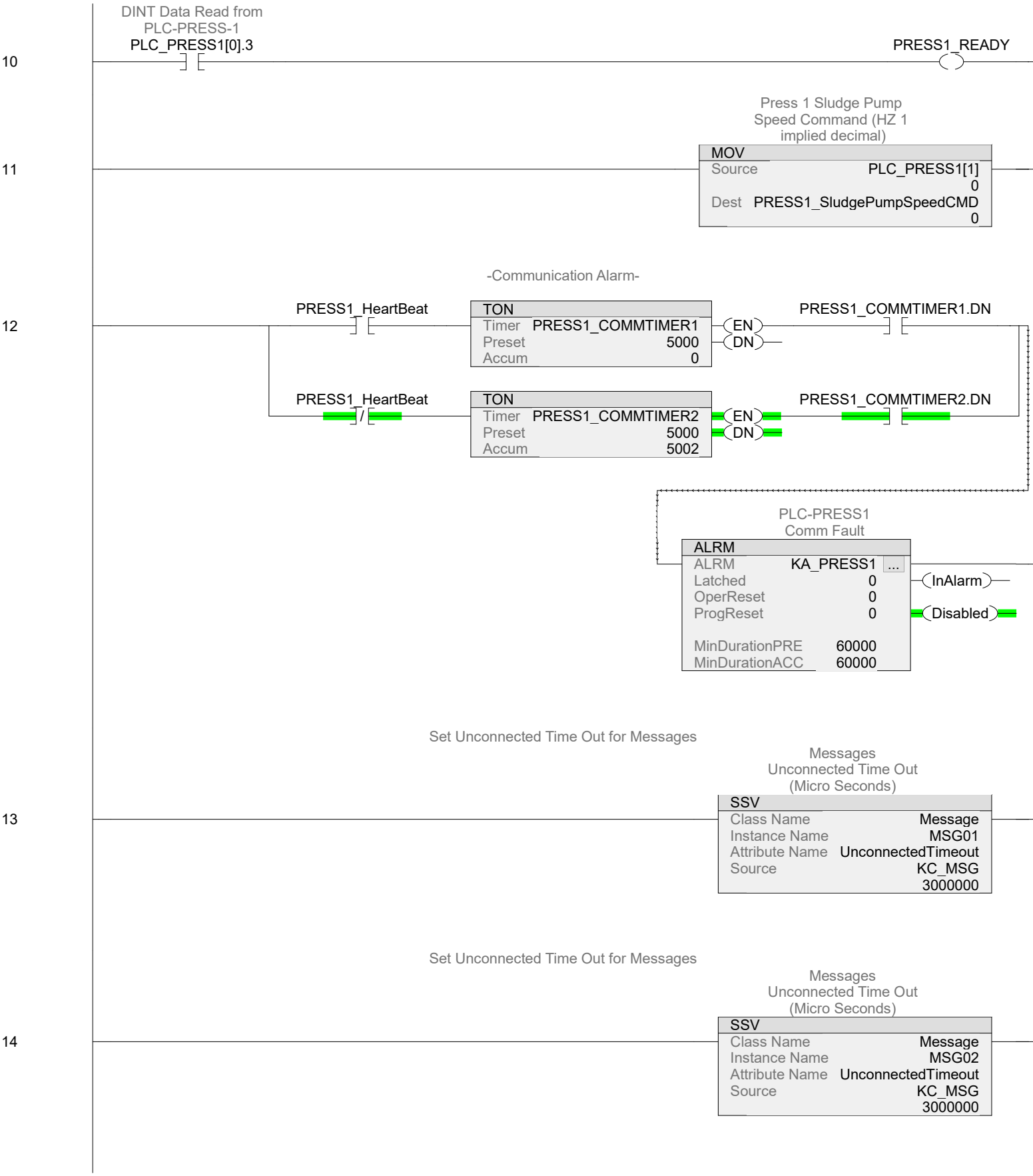
General

Type:	 Ladder Diagram	Number of Rungs:	1
In Program:	 MainProgram		

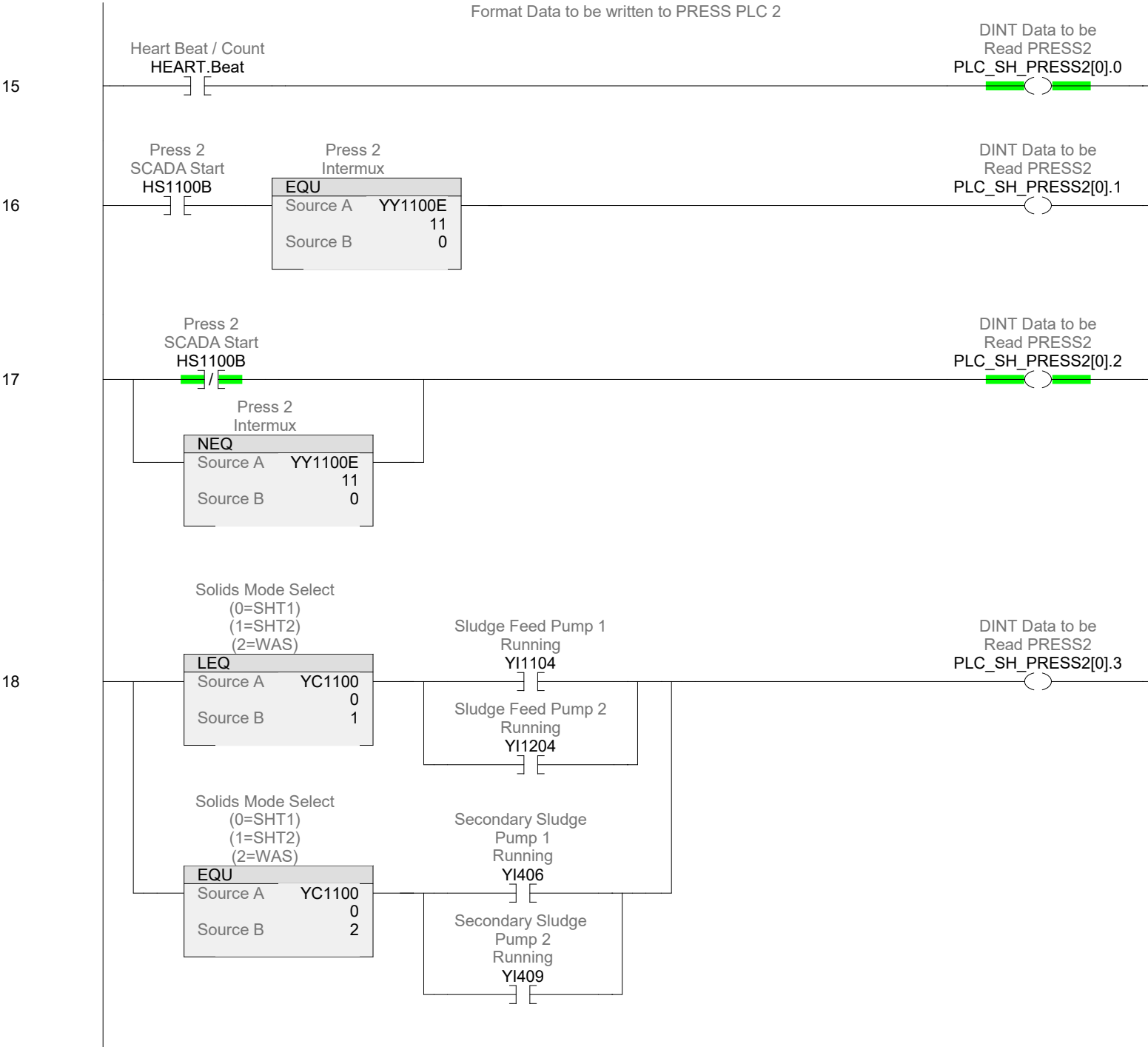
Format Data to be written to PRESS PLC 1

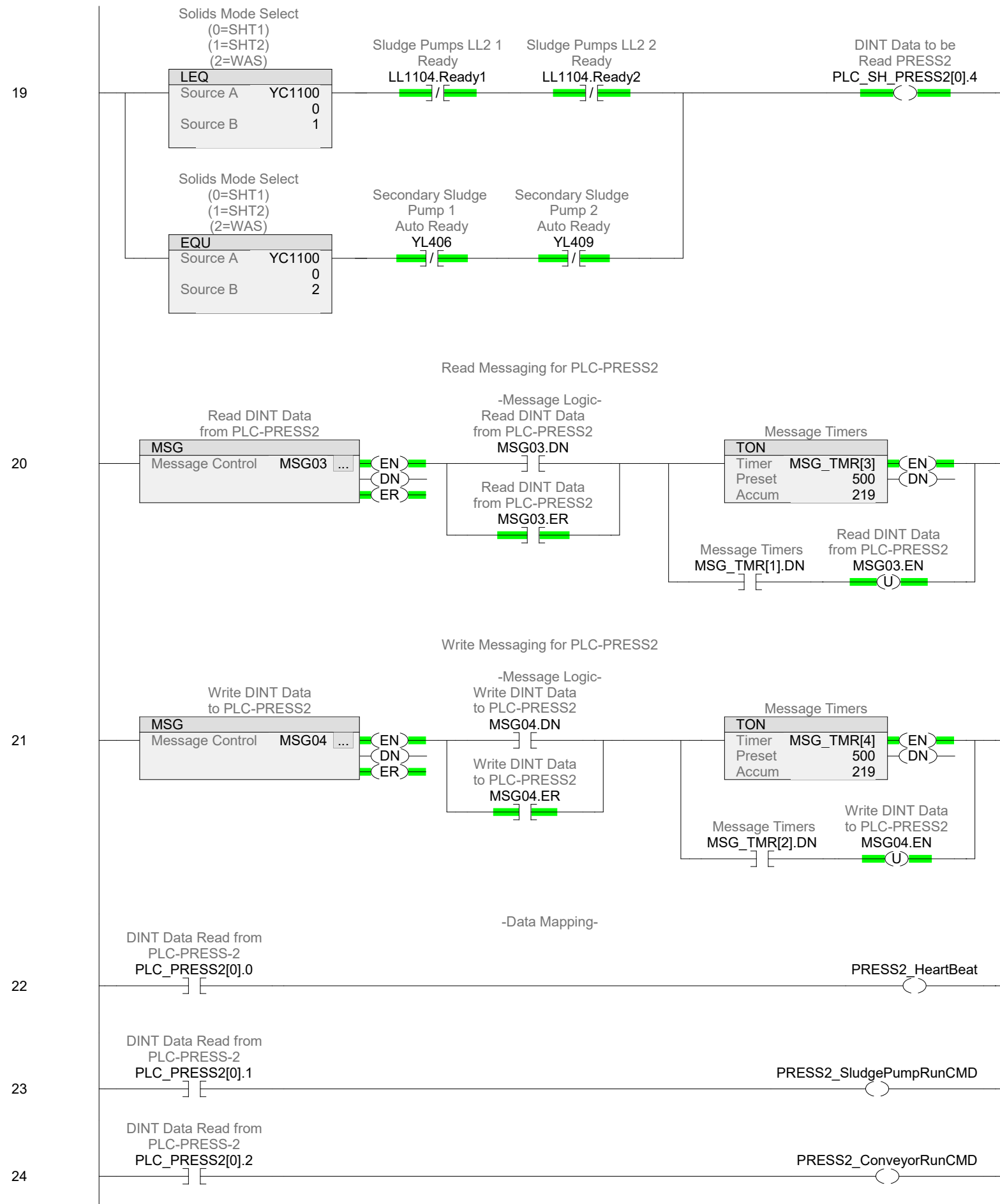


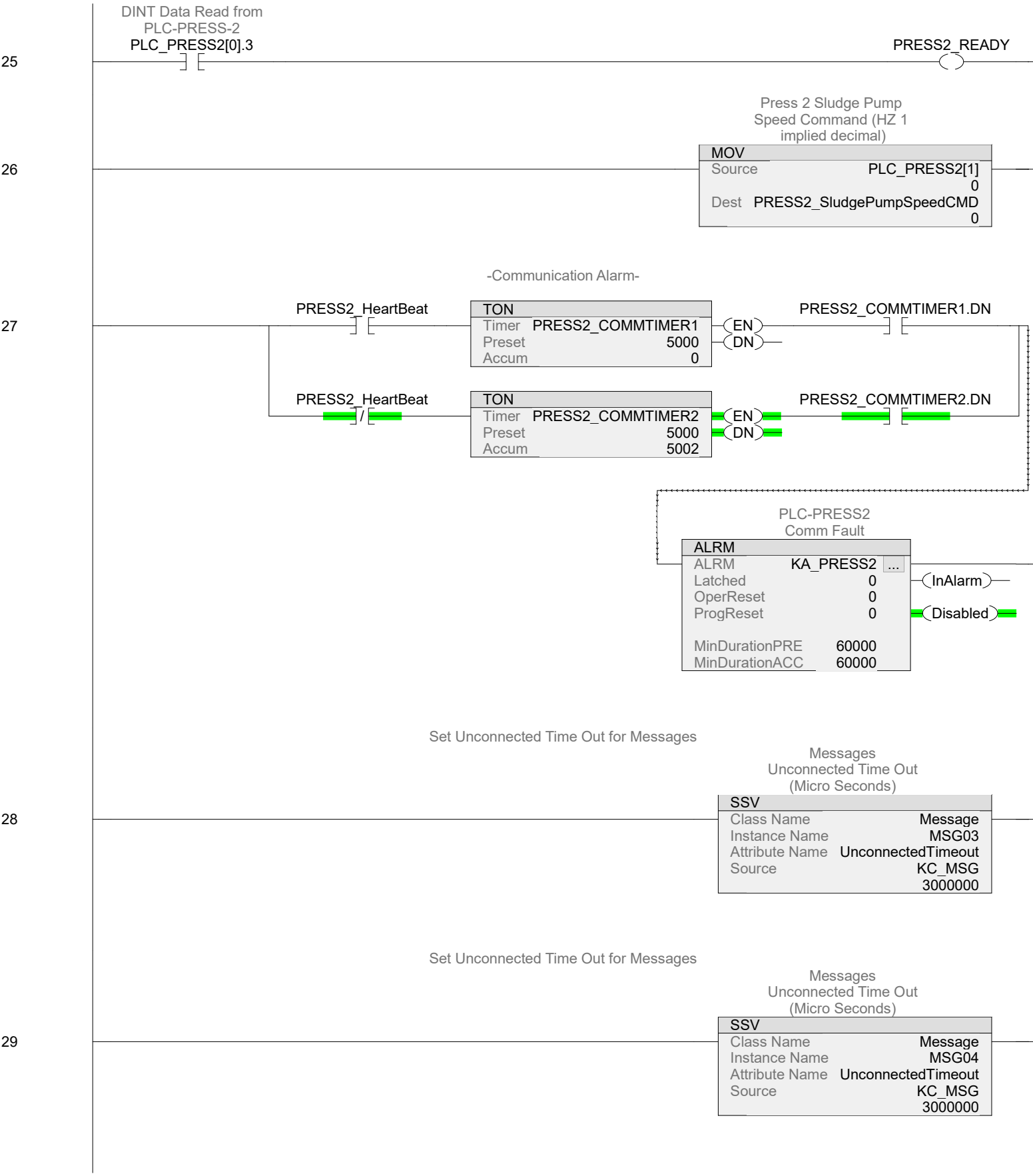


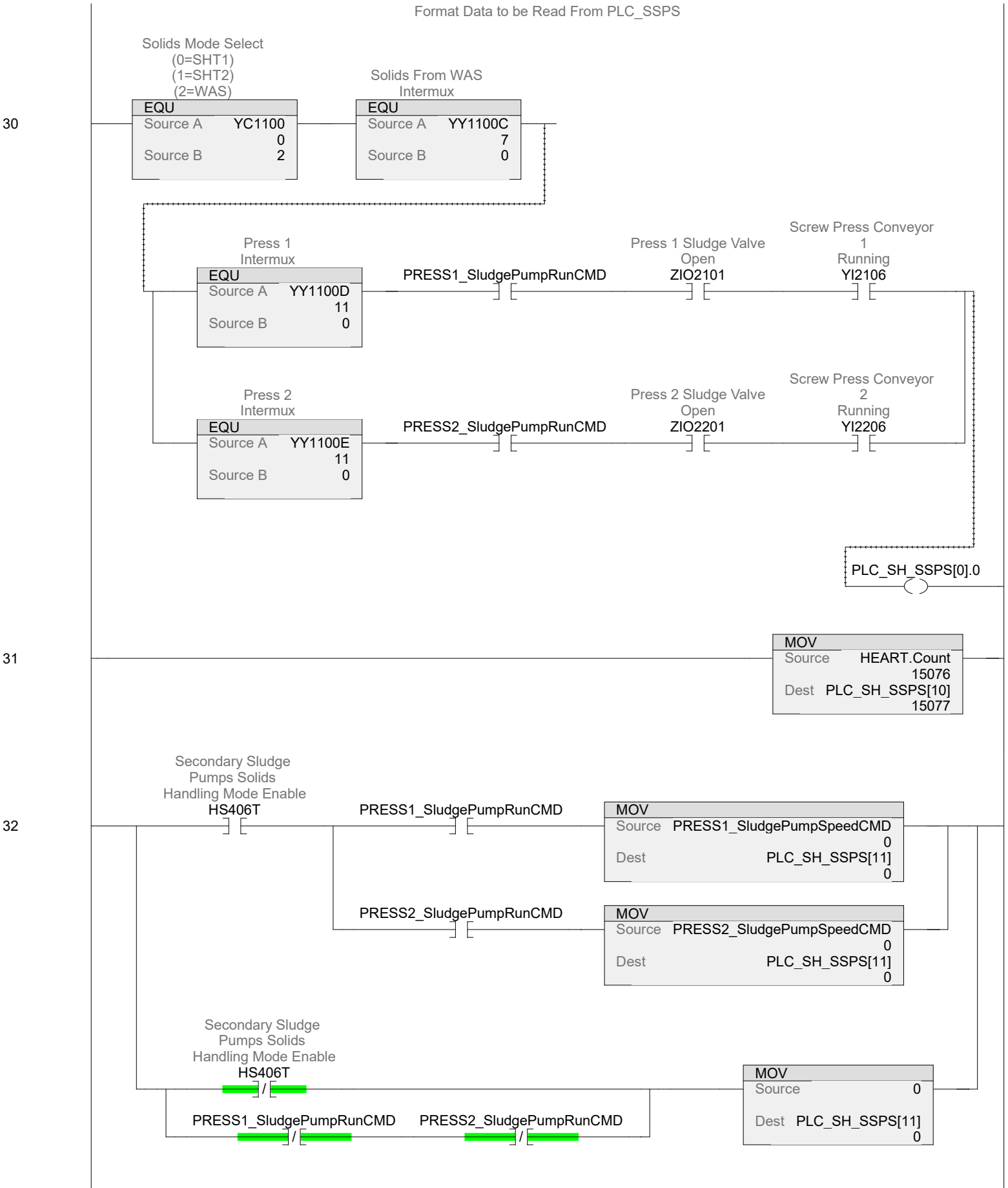


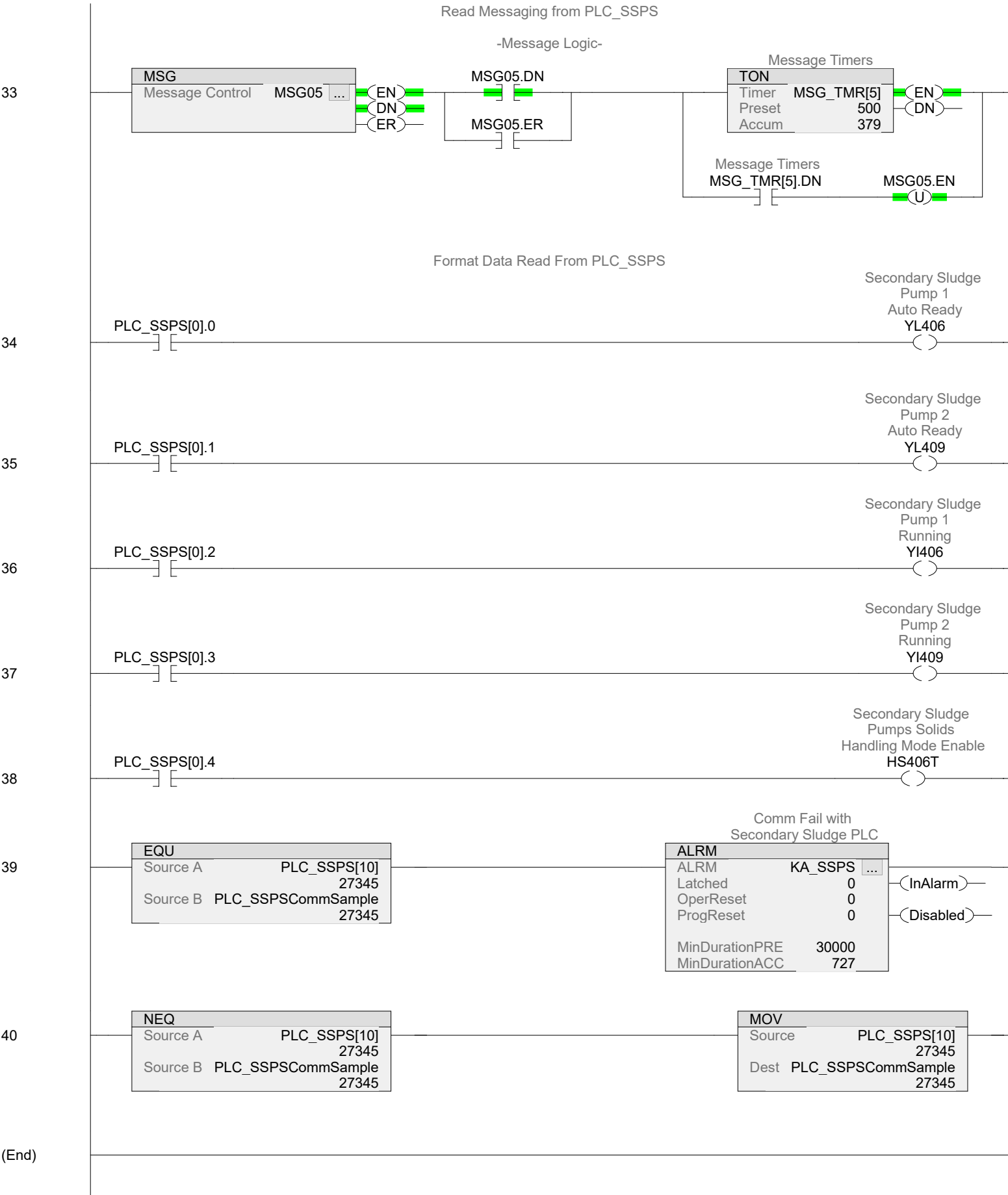
Format Data to be written to PRESS PLC 2











Name	Value	Data Type	Scope
HEART		HEART	PLC_SH
Heart Beat / Count			
Constant	No		
External Access:	Read/Write		
<i>HEART - MainProgram/MainRoutine - *1(HEART)</i>			
HEART.EnableIn	1	BOOL	
Heart Beat / Count Enable Input - System Defined Parameter			
HEART.EnableOut	1	BOOL	
Heart Beat / Count Enable Output - System Defined Parameter			
HEART.Beat	0	BOOL	
Heart Beat / Count			
<i>HEART.Beat - MainProgram/Communications - 0(XIC), 15(XIC)</i>			
HEART.Count	15076	DINT	
Heart Beat / Count			
<i>HEART.Count - MainProgram/Communications - 31(MOV)</i>			
HEART.BeatSP	0	DINT	
Heart Beat / Count Beat Set Point (Seconds)			
HS406T	0	BOOL	PLC_SH
Secondary Sludge Pumps Solids Handling Mode Enable			
Constant	No		
External Access:	Read/Write		
<i>HS406T - MainProgram/Communications - *38(OTE), 32(XIC), 32(XIO)</i>			
<i>HS406T - MainProgram/L1100_PressControl - 2(XIO)</i>			
HS1100A	0	BOOL	PLC_SH
Press 1 SCADA Start			
Constant	No		
External Access:	Read/Write		
<i>HS1100A - MainProgram/Communications - 1(XIC), 2(XIO)</i>			
<i>HS1100A - MainProgram/L1100_PressControl - *5(OTU), 5(XIC)</i>			
<i>HS1100A - MainProgram/L1101_SHT1_ControlValve - 12(XIC)</i>			
HS1100B	0	BOOL	PLC_SH
Press 2 SCADA Start			
Constant	No		
External Access:	Read/Write		
<i>HS1100B - MainProgram/Communications - 16(XIC), 17(XIO)</i>			
<i>HS1100B - MainProgram/L1100_PressControl - *6(OTU), 6(XIC)</i>			
<i>HS1100B - MainProgram/L1201_SHT2_ControlValve - 12(XIC)</i>			
KA_PRESS1		ALRM	PLC_SH
PLC-PRESS1 Comm Fault			
Constant	No		
External Access:	Read/Write		
<i>KA_PRESS1 - MainProgram/Communications - *12(ALRM)</i>			
KA_PRESS1.EnableIn	1	BOOL	
PLC-PRESS1 Comm Fault Enable Input - System Defined Parameter			
KA_PRESS1.EnableOut	1	BOOL	
PLC-PRESS1 Comm Fault Enable Output - System Defined Parameter			
KA_PRESS1.Latched	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperReset	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.ProgReset	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperDisable	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperEnable	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.AlarmCountReset	0	BOOL	
PLC-PRESS1 Comm Fault Set to 1 to reset alarm count			
KA_PRESS1.InAlarm	0	BOOL	

KA_PRESS1 (Continued)
 PLC-PRESS1 Comm Fault
KA_PRESS1.InAlarm - MainProgram/L1100_PressControl - 3(XIC)

KA_PRESS1.Disabled	1	BOOL
PLC-PRESS1 Comm Fault		
KA_PRESS1.MinDurationPRE	60000	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.MinDurationACC	60000	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.AlarmCount	4	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.InAlarmDate	10272022	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.InAlarmTime	121031	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.RetToNormalDate	10312022	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.RetToNormalTime	112117	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.AlarmCountResetDate	0	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.AlarmCountResetTime	0	DINT
PLC-PRESS1 Comm Fault		

KA_PRESS2 ALRM PLC_SH

PLC-PRESS2 Comm Fault
 Constant No
 External Access: Read/Write
*KA_PRESS2 - MainProgram/Communications - *27(ALRM)*

KA_PRESS2.EnableIn	1	BOOL
PLC-PRESS2 Comm Fault Enable Input - System Defined Parameter		
KA_PRESS2.EnableOut	1	BOOL
PLC-PRESS2 Comm Fault Enable Output - System Defined Parameter		
KA_PRESS2.Latched	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperReset	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.ProgReset	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperDisable	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperEnable	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCountReset	0	BOOL
PLC-PRESS2 Comm Fault Set to 1 to reset alarm count		
KA_PRESS2.InAlarm	0	BOOL
PLC-PRESS2 Comm Fault		
<i>KA_PRESS2.InAlarm - MainProgram/L1100_PressControl - 4(XIC)</i>		
KA_PRESS2.Disabled	1	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.MinDurationPRE	60000	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.MinDurationACC	60000	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCount	4	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.InAlarmDate	10272022	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.InAlarmTime	121031	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.RetToNormalDate	10312022	DINT
PLC-PRESS2 Comm Fault		

KA_PRESS2 (Continued)			
KA_PRESS2.RetToNormalTime	112123	DINT	
PLC-PRESS2 Comm Fault			
KA_PRESS2.AlarmCountResetDate	0	DINT	
PLC-PRESS2 Comm Fault			
KA_PRESS2.AlarmCountResetTime	0	DINT	
PLC-PRESS2 Comm Fault			
KA_SSPS		ALRM	PLC_SH
Comm Fail with Secondary Sludge PLC			
Constant	No		
External Access:	Read/Write		
<i>KA_SSPS - MainProgram/Communications - *39(ALRM)</i>			
KA_SSPS.EnableIn	1	BOOL	
Comm Fail with Secondary Sludge PLC Enable Input - System Defined Parameter			
KA_SSPS.EnableOut	1	BOOL	
Comm Fail with Secondary Sludge PLC Enable Output - System Defined Parameter			
KA_SSPS.Latched	0	BOOL	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.OperReset	0	BOOL	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.ProgReset	0	BOOL	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.OperDisable	0	BOOL	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.OperEnable	0	BOOL	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.AlarmCountReset	0	BOOL	
Comm Fail with Secondary Sludge PLC Set to 1 to reset alarm count			
KA_SSPS.InAlarm	0	BOOL	
Comm Fail with Secondary Sludge PLC			
<i>KA_SSPS.InAlarm - MainProgram/L1100_PressControl - 2(XIC)</i>			
KA_SSPS.Disabled	0	BOOL	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.MinDurationPRE	30000	DINT	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.MinDurationACC	727	DINT	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.AlarmCount	2	DINT	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.InAlarmDate	10272022	DINT	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.InAlarmTime	121452	DINT	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.RetToNormalDate	10272022	DINT	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.RetToNormalTime	141228	DINT	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.AlarmCountResetDate	0	DINT	
Comm Fail with Secondary Sludge PLC			
KA_SSPS.AlarmCountResetTime	0	DINT	
Comm Fail with Secondary Sludge PLC			
KC_MSG	3000000	DINT	PLC_SH
Messages Unconnected Time Out (Micro Seconds)			
Constant	No		
External Access:	Read/Write		
<i>KC_MSG - MainProgram/Communications - 13(SSV), 14(SSV), 28(SSV), 29(SSV)</i>			
LL1104		LL	PLC_SH
Sludge Pumps LL2			
Constant	No		

LL1104 (Continued)

External Access:	Read/Write	
<i>LL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *33(LL)</i>		
LL1104.EnableIn	1	BOOL
Sludge Pumps LL2 Enable Input - System Defined Parameter		
LL1104.EnableOut	1	BOOL
Sludge Pumps LL2 Enable Output - System Defined Parameter		
LL1104.AlternationMode	0	DINT
Sludge Pumps LL2 Alternation Mode		
LL1104.AlternationPRE	2400	DINT
Sludge Pumps LL2 Alternation Time Preset (0.01 HRS)		
LL1104.AlternationACC	0	DINT
Sludge Pumps LL2 Alternation Time Accumulated (0.01 HRS)		
LL1104.NextCall	0	DINT
Sludge Pumps LL2 (1)Increase Call (0)No Call (-1)Decrease Call		
<i>LL1104.NextCall - MainProgram/L1104_SludgeFeedPump1_VFD - *29(CLR), *30(MOV), *31(MOV), *32(CLR)</i>		
LL1104.NextCallCountDown	0	DINT
Sludge Pumps LL2 Next Call Count Down (Milliseconds)		
LL1104.NextCalled	0	DINT
Sludge Pumps LL2 (Equipment Number)		
LL1104.CalledCount	0	DINT
Sludge Pumps LL2 Called Count		
<i>LL1104.CalledCount - MainProgram/L1104_SludgeFeedPump1_VFD - *32(CLR), 21(GEQ)</i>		
<i>LL1104.CalledCount - MainProgram/L1204_SludgeFeedPump2_VFD - 21(GEQ)</i>		
LL1104.ReadyCount	0	DINT
Sludge Pumps LL2 Ready Count		
LL1104.OnCountTotal	0	DINT
Sludge Pumps LL2 Total On Count		
LL1104.OnCountAuto	0	DINT
Sludge Pumps LL2 Auto On Count		
LL1104.OnCountMax	1	DINT
Sludge Pumps LL2 Maximum On Count		
LL1104.Ready1	0	BOOL
Sludge Pumps LL2 1 Ready		
<i>LL1104.Ready1 - MainProgram/Communications - 19(XIO), 4(XIO)</i>		
<i>LL1104.Ready1 - MainProgram/L1100_PressControl - 0(XIO), 1(XIO)</i>		
<i>LL1104.Ready1 - MainProgram/L1104_SludgeFeedPump1_VFD - *25(OTE)</i>		
LL1104.Ready2	0	BOOL
Sludge Pumps LL2 2 Ready		
<i>LL1104.Ready2 - MainProgram/Communications - 19(XIO), 4(XIO)</i>		
<i>LL1104.Ready2 - MainProgram/L1100_PressControl - 0(XIO), 1(XIO)</i>		
<i>LL1104.Ready2 - MainProgram/L1104_SludgeFeedPump1_VFD - *26(OTE)</i>		
LL1104.Ready3	0	BOOL
Sludge Pumps LL2 3 Ready		
<i>LL1104.Ready3 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready4	0	BOOL
Sludge Pumps LL2 4 Ready		
<i>LL1104.Ready4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready5	0	BOOL
Sludge Pumps LL2 5 Ready		
<i>LL1104.Ready5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready6	0	BOOL
Sludge Pumps LL2 6 Ready		
<i>LL1104.Ready6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.RunHours1	0	DINT
Sludge Pumps LL2 1 Total ETM		
<i>LL1104.RunHours1 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours2	0	DINT
Sludge Pumps LL2 2 Total ETM		
<i>LL1104.RunHours2 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours3	0	DINT
Sludge Pumps LL2 3 Total ETM		
LL1104.RunHours4	0	DINT
Sludge Pumps LL2 4 Total ETM		

LL1104 (Continued)

LL1104.RunHours5	0	DINT
Sludge Pumps LL2 5 Total ETM		
LL1104.RunHours6	0	DINT
Sludge Pumps LL2 6 Total ETM		
LL1104.Position1SP	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position SP		
LL1104.Position2SP	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position SP		
LL1104.Position3SP	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position SP		
LL1104.Position4SP	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position SP		
LL1104.Position5SP	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position SP		
LL1104.Position6SP	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position SP		
LL1104.Position1	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position		
<i>LL1104.Position1 - MainProgram/L1104_SludgeFeedPump1_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position2	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position		
<i>LL1104.Position2 - MainProgram/L1104_SludgeFeedPump2_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position3	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position		
LL1104.Position4	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position		
LL1104.Position5	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position		
LL1104.Position6	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position		
LL1104.Delay0_1	5000	DINT
Sludge Pumps LL2 Call On 0 to 1 Delay (Milliseconds)		
LL1104.Delay1_2	10000	DINT
Sludge Pumps LL2 Call On 1 to 2 Delay (Milliseconds)		
LL1104.Delay2_3	15000	DINT
Sludge Pumps LL2 Call On 2 to 3 Delay (Milliseconds)		
LL1104.Delay3_4	20000	DINT
Sludge Pumps LL2 Call On 3 to 4 Delay (Milliseconds)		
LL1104.Delay4_5	25000	DINT
Sludge Pumps LL2 Call On 4 to 5 Delay (Milliseconds)		
LL1104.Delay5_6	30000	DINT
Sludge Pumps LL2 Call On 5 to 6 Delay (Milliseconds)		
LL1104.Delay6_5	30000	DINT
Sludge Pumps LL2 Call Off 6 to 5 Delay (Milliseconds)		
LL1104.Delay5_4	25000	DINT
Sludge Pumps LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL1104.Delay4_3	20000	DINT
Sludge Pumps LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL1104.Delay3_2	15000	DINT
Sludge Pumps LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL1104.Delay2_1	10000	DINT
Sludge Pumps LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL1104.Delay1_0	5000	DINT
Sludge Pumps LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL1104.MaxOn	0	BOOL
Sludge Pumps LL2 Maximum Number of Devices are Running		
<i>LL1104.MaxOn - MainProgram/L1104_SludgeFeedPump1_VFD - 30(XIO)</i>		
LL1104.On1	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On1 - MainProgram/L1104_SludgeFeedPump1_VFD - *25(OTE)</i>		
LL1104.On2	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On2 - MainProgram/L1104_SludgeFeedPump1_VFD - *26(OTE)</i>		

LL1104 (Continued)			
LL1104.On3	0	BOOL	
Sludge Pumps LL2			
<i>LL1104.On3 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>			
LL1104.On4	0	BOOL	
Sludge Pumps LL2			
<i>LL1104.On4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>			
LL1104.On5	0	BOOL	
Sludge Pumps LL2			
<i>LL1104.On5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>			
LL1104.On6	0	BOOL	
Sludge Pumps LL2			
<i>LL1104.On6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>			
LL1104.CountUpOS	0	BOOL	
Sludge Pumps LL2			
LL1104.CountDownOS	0	BOOL	
Sludge Pumps LL2			
MSG_TMR		TIMER[50]	PLC_SH
Message Timers			
Constant	No		
External Access:	Read/Write		
MSG_TMR[0]		TIMER	
Message Timers			
MSG_TMR[0].PRE	5000	DINT	
Message Timers			
MSG_TMR[0].ACC	1164	DINT	
Message Timers			
MSG_TMR[0].EN	1	BOOL	
Message Timers			
MSG_TMR[0].TT	1	BOOL	
Message Timers			
MSG_TMR[0].DN	0	BOOL	
Message Timers			
MSG_TMR[1]		TIMER	
Message Timers			
<i>MSG_TMR[1] - MainProgram/Communications - *5(TON)</i>			
MSG_TMR[1].PRE	500	DINT	
Message Timers			
MSG_TMR[1].ACC	219	DINT	
Message Timers			
MSG_TMR[1].EN	1	BOOL	
Message Timers			
MSG_TMR[1].TT	1	BOOL	
Message Timers			
MSG_TMR[1].DN	0	BOOL	
Message Timers			
<i>MSG_TMR[1].DN - MainProgram/Communications - 20(XIC), 5(XIC)</i>			
MSG_TMR[2]		TIMER	
Message Timers			
<i>MSG_TMR[2] - MainProgram/Communications - *6(TON)</i>			
MSG_TMR[2].PRE	500	DINT	
Message Timers			
MSG_TMR[2].ACC	219	DINT	
Message Timers			
MSG_TMR[2].EN	1	BOOL	
Message Timers			
MSG_TMR[2].TT	1	BOOL	
Message Timers			
MSG_TMR[2].DN	0	BOOL	
Message Timers			
<i>MSG_TMR[2].DN - MainProgram/Communications - 21(XIC), 6(XIC)</i>			
MSG_TMR[3]		TIMER	
Message Timers			

MSG_TMR (Continued)

*MSG_TMR[3] - MainProgram/Communications - *20(TON)*

MSG_TMR[3].PRE	500	DINT
Message Timers		
MSG_TMR[3].ACC	219	DINT
Message Timers		
MSG_TMR[3].EN	1	BOOL
Message Timers		
MSG_TMR[3].TT	1	BOOL
Message Timers		
MSG_TMR[3].DN	0	BOOL
Message Timers		

MSG_TMR[4] TIMER

Message Timers

*MSG_TMR[4] - MainProgram/Communications - *21(TON)*

MSG_TMR[4].PRE	500	DINT
Message Timers		
MSG_TMR[4].ACC	219	DINT
Message Timers		
MSG_TMR[4].EN	1	BOOL
Message Timers		
MSG_TMR[4].TT	1	BOOL
Message Timers		
MSG_TMR[4].DN	0	BOOL
Message Timers		

MSG_TMR[5] TIMER

Message Timers

*MSG_TMR[5] - MainProgram/Communications - *33(TON)*

MSG_TMR[5].PRE	500	DINT
Message Timers		
MSG_TMR[5].ACC	379	DINT
Message Timers		
MSG_TMR[5].EN	1	BOOL
Message Timers		
MSG_TMR[5].TT	1	BOOL
Message Timers		
MSG_TMR[5].DN	0	BOOL
Message Timers		

MSG_TMR[5].DN - MainProgram/Communications - 33(XIC)

MSG_TMR[6] TIMER

Message Timers

MSG_TMR[6].PRE	0	DINT
Message Timers		
MSG_TMR[6].ACC	0	DINT
Message Timers		
MSG_TMR[6].EN	0	BOOL
Message Timers		
MSG_TMR[6].TT	0	BOOL
Message Timers		
MSG_TMR[6].DN	0	BOOL
Message Timers		

MSG_TMR[7] TIMER

Message Timers

MSG_TMR[7].PRE	0	DINT
Message Timers		
MSG_TMR[7].ACC	0	DINT
Message Timers		
MSG_TMR[7].EN	0	BOOL
Message Timers		
MSG_TMR[7].TT	0	BOOL
Message Timers		
MSG_TMR[7].DN	0	BOOL
Message Timers		

MSG_TMR[8] TIMER

MSG_TMR (Continued)

Message Timers		
MSG_TMR[8].PRE	0	DINT
Message Timers		
MSG_TMR[8].ACC	0	DINT
Message Timers		
MSG_TMR[8].EN	0	BOOL
Message Timers		
MSG_TMR[8].TT	0	BOOL
Message Timers		
MSG_TMR[8].DN	0	BOOL
Message Timers		
MSG_TMR[9]		TIMER
Message Timers		
MSG_TMR[9].PRE	0	DINT
Message Timers		
MSG_TMR[9].ACC	0	DINT
Message Timers		
MSG_TMR[9].EN	0	BOOL
Message Timers		
MSG_TMR[9].TT	0	BOOL
Message Timers		
MSG_TMR[9].DN	0	BOOL
Message Timers		
MSG_TMR[10]		TIMER
Message Timers		
MSG_TMR[10].PRE	0	DINT
Message Timers		
MSG_TMR[10].ACC	0	DINT
Message Timers		
MSG_TMR[10].EN	0	BOOL
Message Timers		
MSG_TMR[10].TT	0	BOOL
Message Timers		
MSG_TMR[10].DN	0	BOOL
Message Timers		
MSG_TMR[11]		TIMER
Message Timers		
MSG_TMR[11].PRE	0	DINT
Message Timers		
MSG_TMR[11].ACC	0	DINT
Message Timers		
MSG_TMR[11].EN	0	BOOL
Message Timers		
MSG_TMR[11].TT	0	BOOL
Message Timers		
MSG_TMR[11].DN	0	BOOL
Message Timers		
MSG_TMR[12]		TIMER
Message Timers		
MSG_TMR[12].PRE	0	DINT
Message Timers		
MSG_TMR[12].ACC	0	DINT
Message Timers		
MSG_TMR[12].EN	0	BOOL
Message Timers		
MSG_TMR[12].TT	0	BOOL
Message Timers		
MSG_TMR[12].DN	0	BOOL
Message Timers		
MSG_TMR[13]		TIMER
Message Timers		
MSG_TMR[13].PRE	0	DINT
Message Timers		

MSG_TMR (Continued)		
MSG_TMR[13].ACC	0	DINT
Message Timers		
MSG_TMR[13].EN	0	BOOL
Message Timers		
MSG_TMR[13].TT	0	BOOL
Message Timers		
MSG_TMR[13].DN	0	BOOL
Message Timers		
MSG_TMR[14]		TIMER
Message Timers		
MSG_TMR[14].PRE	0	DINT
Message Timers		
MSG_TMR[14].ACC	0	DINT
Message Timers		
MSG_TMR[14].EN	0	BOOL
Message Timers		
MSG_TMR[14].TT	0	BOOL
Message Timers		
MSG_TMR[14].DN	0	BOOL
Message Timers		
MSG_TMR[15]		TIMER
Message Timers		
MSG_TMR[15].PRE	0	DINT
Message Timers		
MSG_TMR[15].ACC	0	DINT
Message Timers		
MSG_TMR[15].EN	0	BOOL
Message Timers		
MSG_TMR[15].TT	0	BOOL
Message Timers		
MSG_TMR[15].DN	0	BOOL
Message Timers		
MSG_TMR[16]		TIMER
Message Timers		
MSG_TMR[16].PRE	0	DINT
Message Timers		
MSG_TMR[16].ACC	0	DINT
Message Timers		
MSG_TMR[16].EN	0	BOOL
Message Timers		
MSG_TMR[16].TT	0	BOOL
Message Timers		
MSG_TMR[16].DN	0	BOOL
Message Timers		
MSG_TMR[17]		TIMER
Message Timers		
MSG_TMR[17].PRE	0	DINT
Message Timers		
MSG_TMR[17].ACC	0	DINT
Message Timers		
MSG_TMR[17].EN	0	BOOL
Message Timers		
MSG_TMR[17].TT	0	BOOL
Message Timers		
MSG_TMR[17].DN	0	BOOL
Message Timers		
MSG_TMR[18]		TIMER
Message Timers		
MSG_TMR[18].PRE	0	DINT
Message Timers		
MSG_TMR[18].ACC	0	DINT
Message Timers		
MSG_TMR[18].EN	0	BOOL

MSG_TMR (Continued)

Message Timers		
MSG_TMR[18].TT	0	BOOL
Message Timers		
MSG_TMR[18].DN	0	BOOL
Message Timers		
MSG_TMR[19]		TIMER
Message Timers		
MSG_TMR[19].PRE	0	DINT
Message Timers		
MSG_TMR[19].ACC	0	DINT
Message Timers		
MSG_TMR[19].EN	0	BOOL
Message Timers		
MSG_TMR[19].TT	0	BOOL
Message Timers		
MSG_TMR[19].DN	0	BOOL
Message Timers		
MSG_TMR[20]		TIMER
Message Timers		
MSG_TMR[20].PRE	30000	DINT
Message Timers		
MSG_TMR[20].ACC	30015	DINT
Message Timers		
MSG_TMR[20].EN	0	BOOL
Message Timers		
MSG_TMR[20].TT	0	BOOL
Message Timers		
MSG_TMR[20].DN	0	BOOL
Message Timers		
MSG_TMR[21]		TIMER
Message Timers		
MSG_TMR[21].PRE	30000	DINT
Message Timers		
MSG_TMR[21].ACC	0	DINT
Message Timers		
MSG_TMR[21].EN	0	BOOL
Message Timers		
MSG_TMR[21].TT	0	BOOL
Message Timers		
MSG_TMR[21].DN	0	BOOL
Message Timers		
MSG_TMR[22]		TIMER
Message Timers		
MSG_TMR[22].PRE	0	DINT
Message Timers		
MSG_TMR[22].ACC	0	DINT
Message Timers		
MSG_TMR[22].EN	0	BOOL
Message Timers		
MSG_TMR[22].TT	0	BOOL
Message Timers		
MSG_TMR[22].DN	0	BOOL
Message Timers		
MSG_TMR[23]		TIMER
Message Timers		
MSG_TMR[23].PRE	0	DINT
Message Timers		
MSG_TMR[23].ACC	0	DINT
Message Timers		
MSG_TMR[23].EN	0	BOOL
Message Timers		
MSG_TMR[23].TT	0	BOOL
Message Timers		

MSG_TMR (Continued)		
MSG_TMR[23].DN	0	BOOL
Message Timers		
MSG_TMR[24]		TIMER
Message Timers		
MSG_TMR[24].PRE	0	DINT
Message Timers		
MSG_TMR[24].ACC	0	DINT
Message Timers		
MSG_TMR[24].EN	0	BOOL
Message Timers		
MSG_TMR[24].TT	0	BOOL
Message Timers		
MSG_TMR[24].DN	0	BOOL
Message Timers		
MSG_TMR[25]		TIMER
Message Timers		
MSG_TMR[25].PRE	0	DINT
Message Timers		
MSG_TMR[25].ACC	0	DINT
Message Timers		
MSG_TMR[25].EN	0	BOOL
Message Timers		
MSG_TMR[25].TT	0	BOOL
Message Timers		
MSG_TMR[25].DN	0	BOOL
Message Timers		
MSG_TMR[26]		TIMER
Message Timers		
MSG_TMR[26].PRE	0	DINT
Message Timers		
MSG_TMR[26].ACC	0	DINT
Message Timers		
MSG_TMR[26].EN	0	BOOL
Message Timers		
MSG_TMR[26].TT	0	BOOL
Message Timers		
MSG_TMR[26].DN	0	BOOL
Message Timers		
MSG_TMR[27]		TIMER
Message Timers		
MSG_TMR[27].PRE	0	DINT
Message Timers		
MSG_TMR[27].ACC	0	DINT
Message Timers		
MSG_TMR[27].EN	0	BOOL
Message Timers		
MSG_TMR[27].TT	0	BOOL
Message Timers		
MSG_TMR[27].DN	0	BOOL
Message Timers		
MSG_TMR[28]		TIMER
Message Timers		
MSG_TMR[28].PRE	0	DINT
Message Timers		
MSG_TMR[28].ACC	0	DINT
Message Timers		
MSG_TMR[28].EN	0	BOOL
Message Timers		
MSG_TMR[28].TT	0	BOOL
Message Timers		
MSG_TMR[28].DN	0	BOOL
Message Timers		
MSG_TMR[29]		TIMER

MSG_TMR (Continued)

Message Timers		
MSG_TMR[29].PRE	0	DINT
Message Timers		
MSG_TMR[29].ACC	0	DINT
Message Timers		
MSG_TMR[29].EN	0	BOOL
Message Timers		
MSG_TMR[29].TT	0	BOOL
Message Timers		
MSG_TMR[29].DN	0	BOOL
Message Timers		
MSG_TMR[30]		TIMER
Message Timers		
MSG_TMR[30].PRE	0	DINT
Message Timers		
MSG_TMR[30].ACC	0	DINT
Message Timers		
MSG_TMR[30].EN	0	BOOL
Message Timers		
MSG_TMR[30].TT	0	BOOL
Message Timers		
MSG_TMR[30].DN	0	BOOL
Message Timers		
MSG_TMR[31]		TIMER
Message Timers		
MSG_TMR[31].PRE	0	DINT
Message Timers		
MSG_TMR[31].ACC	0	DINT
Message Timers		
MSG_TMR[31].EN	0	BOOL
Message Timers		
MSG_TMR[31].TT	0	BOOL
Message Timers		
MSG_TMR[31].DN	0	BOOL
Message Timers		
MSG_TMR[32]		TIMER
Message Timers		
MSG_TMR[32].PRE	0	DINT
Message Timers		
MSG_TMR[32].ACC	0	DINT
Message Timers		
MSG_TMR[32].EN	0	BOOL
Message Timers		
MSG_TMR[32].TT	0	BOOL
Message Timers		
MSG_TMR[32].DN	0	BOOL
Message Timers		
MSG_TMR[33]		TIMER
Message Timers		
MSG_TMR[33].PRE	0	DINT
Message Timers		
MSG_TMR[33].ACC	0	DINT
Message Timers		
MSG_TMR[33].EN	0	BOOL
Message Timers		
MSG_TMR[33].TT	0	BOOL
Message Timers		
MSG_TMR[33].DN	0	BOOL
Message Timers		
MSG_TMR[34]		TIMER
Message Timers		
MSG_TMR[34].PRE	0	DINT
Message Timers		

MSG_TMR (Continued)		
MSG_TMR[34].ACC	0	DINT
Message Timers		
MSG_TMR[34].EN	0	BOOL
Message Timers		
MSG_TMR[34].TT	0	BOOL
Message Timers		
MSG_TMR[34].DN	0	BOOL
Message Timers		
MSG_TMR[35]		TIMER
Message Timers		
MSG_TMR[35].PRE	0	DINT
Message Timers		
MSG_TMR[35].ACC	0	DINT
Message Timers		
MSG_TMR[35].EN	0	BOOL
Message Timers		
MSG_TMR[35].TT	0	BOOL
Message Timers		
MSG_TMR[35].DN	0	BOOL
Message Timers		
MSG_TMR[36]		TIMER
Message Timers		
MSG_TMR[36].PRE	0	DINT
Message Timers		
MSG_TMR[36].ACC	0	DINT
Message Timers		
MSG_TMR[36].EN	0	BOOL
Message Timers		
MSG_TMR[36].TT	0	BOOL
Message Timers		
MSG_TMR[36].DN	0	BOOL
Message Timers		
MSG_TMR[37]		TIMER
Message Timers		
MSG_TMR[37].PRE	0	DINT
Message Timers		
MSG_TMR[37].ACC	0	DINT
Message Timers		
MSG_TMR[37].EN	0	BOOL
Message Timers		
MSG_TMR[37].TT	0	BOOL
Message Timers		
MSG_TMR[37].DN	0	BOOL
Message Timers		
MSG_TMR[38]		TIMER
Message Timers		
MSG_TMR[38].PRE	0	DINT
Message Timers		
MSG_TMR[38].ACC	0	DINT
Message Timers		
MSG_TMR[38].EN	0	BOOL
Message Timers		
MSG_TMR[38].TT	0	BOOL
Message Timers		
MSG_TMR[38].DN	0	BOOL
Message Timers		
MSG_TMR[39]		TIMER
Message Timers		
MSG_TMR[39].PRE	0	DINT
Message Timers		
MSG_TMR[39].ACC	0	DINT
Message Timers		
MSG_TMR[39].EN	0	BOOL

MSG_TMR (Continued)

Message Timers		
MSG_TMR[39].TT	0	BOOL
Message Timers		
MSG_TMR[39].DN	0	BOOL
Message Timers		
MSG_TMR[40]		TIMER
Message Timers		
MSG_TMR[40].PRE	0	DINT
Message Timers		
MSG_TMR[40].ACC	0	DINT
Message Timers		
MSG_TMR[40].EN	0	BOOL
Message Timers		
MSG_TMR[40].TT	0	BOOL
Message Timers		
MSG_TMR[40].DN	0	BOOL
Message Timers		
MSG_TMR[41]		TIMER
Message Timers		
MSG_TMR[41].PRE	0	DINT
Message Timers		
MSG_TMR[41].ACC	0	DINT
Message Timers		
MSG_TMR[41].EN	0	BOOL
Message Timers		
MSG_TMR[41].TT	0	BOOL
Message Timers		
MSG_TMR[41].DN	0	BOOL
Message Timers		
MSG_TMR[42]		TIMER
Message Timers		
MSG_TMR[42].PRE	0	DINT
Message Timers		
MSG_TMR[42].ACC	0	DINT
Message Timers		
MSG_TMR[42].EN	0	BOOL
Message Timers		
MSG_TMR[42].TT	0	BOOL
Message Timers		
MSG_TMR[42].DN	0	BOOL
Message Timers		
MSG_TMR[43]		TIMER
Message Timers		
MSG_TMR[43].PRE	0	DINT
Message Timers		
MSG_TMR[43].ACC	0	DINT
Message Timers		
MSG_TMR[43].EN	0	BOOL
Message Timers		
MSG_TMR[43].TT	0	BOOL
Message Timers		
MSG_TMR[43].DN	0	BOOL
Message Timers		
MSG_TMR[44]		TIMER
Message Timers		
MSG_TMR[44].PRE	0	DINT
Message Timers		
MSG_TMR[44].ACC	0	DINT
Message Timers		
MSG_TMR[44].EN	0	BOOL
Message Timers		
MSG_TMR[44].TT	0	BOOL
Message Timers		

MSG_TMR (Continued)		
MSG_TMR[44].DN	0	BOOL
Message Timers		
MSG_TMR[45]		TIMER
Message Timers		
MSG_TMR[45].PRE	0	DINT
Message Timers		
MSG_TMR[45].ACC	0	DINT
Message Timers		
MSG_TMR[45].EN	0	BOOL
Message Timers		
MSG_TMR[45].TT	0	BOOL
Message Timers		
MSG_TMR[45].DN	0	BOOL
Message Timers		
MSG_TMR[46]		TIMER
Message Timers		
MSG_TMR[46].PRE	0	DINT
Message Timers		
MSG_TMR[46].ACC	0	DINT
Message Timers		
MSG_TMR[46].EN	0	BOOL
Message Timers		
MSG_TMR[46].TT	0	BOOL
Message Timers		
MSG_TMR[46].DN	0	BOOL
Message Timers		
MSG_TMR[47]		TIMER
Message Timers		
MSG_TMR[47].PRE	0	DINT
Message Timers		
MSG_TMR[47].ACC	0	DINT
Message Timers		
MSG_TMR[47].EN	0	BOOL
Message Timers		
MSG_TMR[47].TT	0	BOOL
Message Timers		
MSG_TMR[47].DN	0	BOOL
Message Timers		
MSG_TMR[48]		TIMER
Message Timers		
MSG_TMR[48].PRE	0	DINT
Message Timers		
MSG_TMR[48].ACC	0	DINT
Message Timers		
MSG_TMR[48].EN	0	BOOL
Message Timers		
MSG_TMR[48].TT	0	BOOL
Message Timers		
MSG_TMR[48].DN	0	BOOL
Message Timers		
MSG_TMR[49]		TIMER
Message Timers		
MSG_TMR[49].PRE	0	DINT
Message Timers		
MSG_TMR[49].ACC	0	DINT
Message Timers		
MSG_TMR[49].EN	0	BOOL
Message Timers		
MSG_TMR[49].TT	0	BOOL
Message Timers		
MSG_TMR[49].DN	0	BOOL
Message Timers		

MSG01	MESSAGE	PLC_SH
Read DINT Data from PLC-PRESS1		
External Access: Read/Write		
<i>MSG01 - MainProgram/Communications - *13(SSV), *5(MSG)</i>		
MSG01.Flags 16#0290	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Flags.4 1	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.Flags.5 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.Flags.7 1	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.EW 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.ER 1	BOOL	
Read DINT Data from PLC-PRESS1		
<i>MSG01.ER - MainProgram/Communications - 5(XIC)</i>		
MSG01.DN 0	BOOL	
Read DINT Data from PLC-PRESS1		
<i>MSG01.DN - MainProgram/Communications - 5(XIC)</i>		
MSG01.ST 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.EN 1	BOOL	
Read DINT Data from PLC-PRESS1		
<i>MSG01.EN - MainProgram/Communications - *5(OTU)</i>		
MSG01.TO 0	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.EN_CC 1	BOOL	
Read DINT Data from PLC-PRESS1		
MSG01.ERR 16#0001	INT	
Read DINT Data from PLC-PRESS1		
MSG01.EXERR 16#0008_0311	DINT	
Read DINT Data from PLC-PRESS1		
MSG01.ERR_SRC 8	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.DN_LEN 0	INT	
Read DINT Data from PLC-PRESS1		
MSG01.REQ_LEN 5	INT	
Read DINT Data from PLC-PRESS1		
MSG01.DestinationLink 0	INT	
Read DINT Data from PLC-PRESS1		
MSG01.DestinationNode 8#000_000	INT	
Read DINT Data from PLC-PRESS1		
MSG01.SourceLink 0	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Class 16#0000	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Attribute 16#0000	INT	
Read DINT Data from PLC-PRESS1		
MSG01.Instance 0	DINT	
Read DINT Data from PLC-PRESS1		
MSG01.LocalIndex 0	DINT	
Read DINT Data from PLC-PRESS1		
MSG01.Channel '\$00'	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.Rack 8#000	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.Group 0	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.Slot 0	SINT	
Read DINT Data from PLC-PRESS1		
MSG01.Path '\$11\$0E192.168.108.10'	STRING	
Read DINT Data from PLC-PRESS1		
MSG01.Path.LEN 16	DINT	

MSG01 (Continued)

Read DINT Data from PLC-PRESS1		
MSG01.Path.DATA		SINT
Read DINT Data from PLC-PRESS1		
MSG01.RemoteIndex	0	DINT
Read DINT Data from PLC-PRESS1		
MSG01.RemoteElement	'DATA_TO_SCADA_DINTS'	STRING
Read DINT Data from PLC-PRESS1		
MSG01.RemoteElement.LEN	19	DINT
Read DINT Data from PLC-PRESS1		
MSG01.RemoteElement.DATA		SINT
Read DINT Data from PLC-PRESS1		
MSG01.UnconnectedTimeout	3000000	DINT
Read DINT Data from PLC-PRESS1		
MSG01.ConnectionRate	7500000	DINT
Read DINT Data from PLC-PRESS1		
MSG01.TimeoutMultiplier	0	SINT
Read DINT Data from PLC-PRESS1		

MSG02 MESSAGE PLC_SH

Write DINT Data to PLC-PRESS1		
External Access:	Read/Write	
<i>MSG02 - MainProgram/Communications - *14(SSV), *6(MSG)</i>		
MSG02.Flags	16#0290	INT
Write DINT Data to PLC-PRESS1		
MSG02.Flags.4	1	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.Flags.5	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.Flags.7	1	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.EW	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.ER	1	BOOL
Write DINT Data to PLC-PRESS1		
<i>MSG02.ER - MainProgram/Communications - 6(XIC)</i>		
MSG02.DN	0	BOOL
Write DINT Data to PLC-PRESS1		
<i>MSG02.DN - MainProgram/Communications - 6(XIC)</i>		
MSG02.ST	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.EN	1	BOOL
Write DINT Data to PLC-PRESS1		
<i>MSG02.EN - MainProgram/Communications - *6(OTU)</i>		
MSG02.TO	0	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.EN_CC	1	BOOL
Write DINT Data to PLC-PRESS1		
MSG02.ERR	16#0001	INT
Write DINT Data to PLC-PRESS1		
MSG02.EXERR	16#0000_0311	DINT
Write DINT Data to PLC-PRESS1		
MSG02.ERR_SRC	8	SINT
Write DINT Data to PLC-PRESS1		
MSG02.DN_LEN	0	INT
Write DINT Data to PLC-PRESS1		
MSG02.REQ_LEN	1	INT
Write DINT Data to PLC-PRESS1		
MSG02.DestinationLink	0	INT
Write DINT Data to PLC-PRESS1		
MSG02.DestinationNode	8#000_000	INT
Write DINT Data to PLC-PRESS1		
MSG02.SourceLink	0	INT
Write DINT Data to PLC-PRESS1		

MSG02 (Continued)

MSG02.Class	16#0000	INT
Write DINT Data to PLC-PRESS1		
MSG02.Attribute	16#0000	INT
Write DINT Data to PLC-PRESS1		
MSG02.Instance	0	DINT
Write DINT Data to PLC-PRESS1		
MSG02.LocalIndex	0	DINT
Write DINT Data to PLC-PRESS1		
MSG02.Channel	'\$00'	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Rack	8#000	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Group	0	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Slot	0	SINT
Write DINT Data to PLC-PRESS1		
MSG02.Path	'\$11\$0E192.168.108.10'	STRING
Write DINT Data to PLC-PRESS1		
MSG02.Path.LEN	16	DINT
Write DINT Data to PLC-PRESS1		
MSG02.Path.DATA		SINT
Write DINT Data to PLC-PRESS1		
MSG02.RemoteIndex	0	DINT
Write DINT Data to PLC-PRESS1		
MSG02.RemoteElement	'DATA_FROM_SCADA_DINT'	STRING
Write DINT Data to PLC-PRESS1		
MSG02.RemoteElement.LEN	20	DINT
Write DINT Data to PLC-PRESS1		
MSG02.RemoteElement.DATA		SINT
Write DINT Data to PLC-PRESS1		
MSG02.UnconnectedTimeout	3000000	DINT
Write DINT Data to PLC-PRESS1		
MSG02.ConnectionRate	7500000	DINT
Write DINT Data to PLC-PRESS1		
MSG02.TimeoutMultiplier	0	SINT
Write DINT Data to PLC-PRESS1		

MSG03 MESSAGE PLC_SH

Read DINT Data from PLC-PRESS2		
External Access:	Read/Write	
<i>MSG03 - MainProgram/Communications - *20(MSG), *28(SSV)</i>		
MSG03.Flags	16#0290	INT
Read DINT Data from PLC-PRESS2		
MSG03.Flags.4	1	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.Flags.5	0	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.Flags.7	1	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.EW	0	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.ER	1	BOOL
Read DINT Data from PLC-PRESS2		
<i>MSG03.ER - MainProgram/Communications - 20(XIC)</i>		
MSG03.DN	0	BOOL
Read DINT Data from PLC-PRESS2		
<i>MSG03.DN - MainProgram/Communications - 20(XIC)</i>		
MSG03.ST	0	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.EN	1	BOOL
Read DINT Data from PLC-PRESS2		
<i>MSG03.EN - MainProgram/Communications - *20(OTU)</i>		
MSG03.TO	0	BOOL

MSG03 (Continued)

Read DINT Data from PLC-PRESS2		
MSG03.EN_CC	1	BOOL
Read DINT Data from PLC-PRESS2		
MSG03.ERR	16#0001	INT
Read DINT Data from PLC-PRESS2		
MSG03.EXERR	16#0008_0311	DINT
Read DINT Data from PLC-PRESS2		
MSG03.ERR_SRC	8	SINT
Read DINT Data from PLC-PRESS2		
MSG03.DN_LEN	0	INT
Read DINT Data from PLC-PRESS2		
MSG03.REQ_LEN	5	INT
Read DINT Data from PLC-PRESS2		
MSG03.DestinationLink	0	INT
Read DINT Data from PLC-PRESS2		
MSG03.DestinationNode	8#000_000	INT
Read DINT Data from PLC-PRESS2		
MSG03.SourceLink	0	INT
Read DINT Data from PLC-PRESS2		
MSG03.Class	16#0000	INT
Read DINT Data from PLC-PRESS2		
MSG03.Attribute	16#0000	INT
Read DINT Data from PLC-PRESS2		
MSG03.Instance	0	DINT
Read DINT Data from PLC-PRESS2		
MSG03.LocalIndex	0	DINT
Read DINT Data from PLC-PRESS2		
MSG03.Channel	'\$00'	SINT
Read DINT Data from PLC-PRESS2		
MSG03.Rack	8#000	SINT
Read DINT Data from PLC-PRESS2		
MSG03.Group	0	SINT
Read DINT Data from PLC-PRESS2		
MSG03.Slot	0	SINT
Read DINT Data from PLC-PRESS2		
MSG03.Path	'\$11\$0E192.168.108.20'	STRING
Read DINT Data from PLC-PRESS2		
MSG03.Path.LEN	16	DINT
Read DINT Data from PLC-PRESS2		
MSG03.Path.DATA		SINT
Read DINT Data from PLC-PRESS2		
MSG03.RemoteIndex	0	DINT
Read DINT Data from PLC-PRESS2		
MSG03.RemoteElement	'DATA_TO_SCADA_DINTS'	STRING
Read DINT Data from PLC-PRESS2		
MSG03.RemoteElement.LEN	19	DINT
Read DINT Data from PLC-PRESS2		
MSG03.RemoteElement.DATA		SINT
Read DINT Data from PLC-PRESS2		
MSG03.UnconnectedTimeout	3000000	DINT
Read DINT Data from PLC-PRESS2		
MSG03.ConnectionRate	7500000	DINT
Read DINT Data from PLC-PRESS2		
MSG03.TimeoutMultiplier	0	SINT
Read DINT Data from PLC-PRESS2		

MSG04		MESSAGE	PLC_SH
Write DINT Data to PLC-PRESS2			
External Access:	Read/Write		
<i>MSG04 - MainProgram/Communications - *21(MSG), *29(SSV)</i>			
MSG04.Flags	16#0290	INT	
Write DINT Data to PLC-PRESS2			
MSG04.Flags.4	1	BOOL	

MSG04 (Continued)

Write DINT Data to PLC-PRESS2		
MSG04.Flags.5	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.Flags.7	1	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.EW	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.ER	1	BOOL
Write DINT Data to PLC-PRESS2		
<i>MSG04.ER - MainProgram/Communications - 21(XIC)</i>		
MSG04.DN	0	BOOL
Write DINT Data to PLC-PRESS2		
<i>MSG04.DN - MainProgram/Communications - 21(XIC)</i>		
MSG04.ST	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.EN	1	BOOL
Write DINT Data to PLC-PRESS2		
<i>MSG04.EN - MainProgram/Communications - *21(OTU)</i>		
MSG04.TO	0	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.EN_CC	1	BOOL
Write DINT Data to PLC-PRESS2		
MSG04.ERR	16#0001	INT
Write DINT Data to PLC-PRESS2		
MSG04.EXERR	16#0000_0311	DINT
Write DINT Data to PLC-PRESS2		
MSG04.ERR_SRC	8	SINT
Write DINT Data to PLC-PRESS2		
MSG04.DN_LEN	0	INT
Write DINT Data to PLC-PRESS2		
MSG04.REQ_LEN	1	INT
Write DINT Data to PLC-PRESS2		
MSG04.DestinationLink	0	INT
Write DINT Data to PLC-PRESS2		
MSG04.DestinationNode	8#000_000	INT
Write DINT Data to PLC-PRESS2		
MSG04.SourceLink	0	INT
Write DINT Data to PLC-PRESS2		
MSG04.Class	16#0000	INT
Write DINT Data to PLC-PRESS2		
MSG04.Attribute	16#0000	INT
Write DINT Data to PLC-PRESS2		
MSG04.Instance	0	DINT
Write DINT Data to PLC-PRESS2		
MSG04.LocalIndex	0	DINT
Write DINT Data to PLC-PRESS2		
MSG04.Channel	'\$00'	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Rack	8#000	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Group	0	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Slot	0	SINT
Write DINT Data to PLC-PRESS2		
MSG04.Path	'\$11\$0E192.168.108.20'	STRING
Write DINT Data to PLC-PRESS2		
MSG04.Path.LEN	16	DINT
Write DINT Data to PLC-PRESS2		
MSG04.Path.DATA		SINT
Write DINT Data to PLC-PRESS2		
MSG04.RemoteIndex	0	DINT
Write DINT Data to PLC-PRESS2		
MSG04.RemoteElement	'DATA_FROM_SCADA_DINT'	STRING

MSG04 (Continued)		
Write DINT Data to PLC-PRESS2		
MSG04.RemoteElement.LEN	20	DINT
Write DINT Data to PLC-PRESS2		
MSG04.RemoteElement.DATA		SINT
Write DINT Data to PLC-PRESS2		
MSG04.UnconnectedTimeout	3000000	DINT
Write DINT Data to PLC-PRESS2		
MSG04.ConnectionRate	7500000	DINT
Write DINT Data to PLC-PRESS2		
MSG04.TimeoutMultiplier	0	SINT
Write DINT Data to PLC-PRESS2		
MSG05		MESSAGE
External Access:	Read/Write	
<i>MSG05 - MainProgram/Communications - *33(MSG)</i>		
MSG05.ER	0	BOOL
<i>MSG05.ER - MainProgram/Communications - 33(XIC)</i>		
MSG05.DN	1	BOOL
<i>MSG05.DN - MainProgram/Communications - 33(XIC)</i>		
MSG05.EN	1	BOOL
<i>MSG05.EN - MainProgram/Communications - *33(OTU)</i>		
PLC_PRESS1		DINT[10]
DINT Data Read from PLC-PRESS-1		
Constant	No	
External Access:	Read/Write	
PLC_PRESS1[0]	0	DINT
DINT Data Read from PLC-PRESS-1		
<i>PLC_PRESS1[0] - MainProgram/Communications - *5(MSG)</i>		
PLC_PRESS1[0].0	0	BOOL
DINT Data Read from PLC-PRESS-1		
<i>PLC_PRESS1[0].0 - MainProgram/Communications - 7(XIC)</i>		
PLC_PRESS1[0].1	0	BOOL
DINT Data Read from PLC-PRESS-1		
<i>PLC_PRESS1[0].1 - MainProgram/Communications - 8(XIC)</i>		
PLC_PRESS1[0].2	0	BOOL
DINT Data Read from PLC-PRESS-1		
<i>PLC_PRESS1[0].2 - MainProgram/Communications - 9(XIC)</i>		
PLC_PRESS1[0].3	0	BOOL
DINT Data Read from PLC-PRESS-1		
<i>PLC_PRESS1[0].3 - MainProgram/Communications - 10(XIC)</i>		
PLC_PRESS1[1]	0	DINT
DINT Data Read from PLC-PRESS-1		
<i>PLC_PRESS1[1] - MainProgram/Communications - 11(MOV)</i>		
PLC_PRESS1[2]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[3]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[4]	602	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[5]	6132	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[6]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[7]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[8]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS1[9]	0	DINT
DINT Data Read from PLC-PRESS-1		
PLC_PRESS2		DINT[10]
DINT Data Read from PLC-PRESS-2		

PLC_PRESS2 (Continued)

Constant	No	
External Access:	Read/Write	
PLC_PRESS2[0]	0	DINT
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0] - MainProgram/Communications - *20(MSG)</i>		
PLC_PRESS2[0].0	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].0 - MainProgram/Communications - 22(XIC)</i>		
PLC_PRESS2[0].1	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].1 - MainProgram/Communications - 23(XIC)</i>		
PLC_PRESS2[0].2	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].2 - MainProgram/Communications - 24(XIC)</i>		
PLC_PRESS2[0].3	0	BOOL
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[0].3 - MainProgram/Communications - 25(XIC)</i>		
PLC_PRESS2[1]	0	DINT
DINT Data Read from PLC-PRESS-2		
<i>PLC_PRESS2[1] - MainProgram/Communications - 26(MOV)</i>		
PLC_PRESS2[2]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[3]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[4]	602	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[5]	6132	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[6]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[7]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[8]	0	DINT
DINT Data Read from PLC-PRESS-2		
PLC_PRESS2[9]	0	DINT
DINT Data Read from PLC-PRESS-2		

PLC_SH_PRESS1 DINT[10] PLC_SH

DINT Data to be Read PRESS1		
Constant	No	
External Access:	Read/Write	
PLC_SH_PRESS1[0]	20	DINT
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0] - MainProgram/Communications - 6(MSG)</i>		
PLC_SH_PRESS1[0].0	0	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].0 - MainProgram/Communications - *0(OTE)</i>		
PLC_SH_PRESS1[0].1	0	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].1 - MainProgram/Communications - *1(OTE)</i>		
PLC_SH_PRESS1[0].2	1	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].2 - MainProgram/Communications - *2(OTE)</i>		
PLC_SH_PRESS1[0].3	0	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].3 - MainProgram/Communications - *3(OTE)</i>		
PLC_SH_PRESS1[0].4	1	BOOL
DINT Data to be Read PRESS1		
<i>PLC_SH_PRESS1[0].4 - MainProgram/Communications - *4(OTE)</i>		
PLC_SH_PRESS1[1]	87	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[2]	0	DINT
DINT Data to be Read PRESS1		

PLC_SH_PRESS1 (Continued)		
PLC_SH_PRESS1[3]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[4]	1175	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[5]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[6]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[7]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[8]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS1[9]	0	DINT
DINT Data to be Read PRESS1		
PLC_SH_PRESS2		DINT[10]
DINT Data to be Read PRESS2		
Constant	No	
External Access:	Read/Write	
PLC_SH_PRESS2[0]	21	DINT
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0] - MainProgram/Communications - 21(MSG)</i>		
PLC_SH_PRESS2[0].0	1	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].0 - MainProgram/Communications - *15(OTE)</i>		
PLC_SH_PRESS2[0].1	0	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].1 - MainProgram/Communications - *16(OTE)</i>		
PLC_SH_PRESS2[0].2	1	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].2 - MainProgram/Communications - *17(OTE)</i>		
PLC_SH_PRESS2[0].3	0	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].3 - MainProgram/Communications - *18(OTE)</i>		
PLC_SH_PRESS2[0].4	1	BOOL
DINT Data to be Read PRESS2		
<i>PLC_SH_PRESS2[0].4 - MainProgram/Communications - *19(OTE)</i>		
PLC_SH_PRESS2[1]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[2]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[3]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[4]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[5]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[6]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[7]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[8]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_PRESS2[9]	0	DINT
DINT Data to be Read PRESS2		
PLC_SH_SSPS		INT[50]
Constant		
Constant	No	
External Access:	Read/Write	
PLC_SH_SSPS[0].0	0	BOOL
<i>PLC_SH_SSPS[0].0 - MainProgram/Communications - *30(OTE)</i>		
PLC_SH_SSPS[10]	15077	INT
<i>PLC_SH_SSPS[10] - MainProgram/Communications - *31(MOV)</i>		

PLC_SH_SSPS (Continued)			
PLC_SH_SSPS[11]	0	INT	
<i>PLC_SH_SSPS[11] - MainProgram/Communications - *32(MOV)</i>			
PLC_SSPS		INT[50]	PLC_SH
Constant	No		
External Access:	Read/Write		
PLC_SSPS[0]	0	INT	
<i>PLC_SSPS[0] - MainProgram/Communications - *33(MSG)</i>			
PLC_SSPS[0].0	0	BOOL	
<i>PLC_SSPS[0].0 - MainProgram/Communications - 34(XIC)</i>			
PLC_SSPS[0].1	0	BOOL	
<i>PLC_SSPS[0].1 - MainProgram/Communications - 35(XIC)</i>			
PLC_SSPS[0].2	0	BOOL	
<i>PLC_SSPS[0].2 - MainProgram/Communications - 36(XIC)</i>			
PLC_SSPS[0].3	0	BOOL	
<i>PLC_SSPS[0].3 - MainProgram/Communications - 37(XIC)</i>			
PLC_SSPS[0].4	0	BOOL	
<i>PLC_SSPS[0].4 - MainProgram/Communications - 38(XIC)</i>			
PLC_SSPS[10]	27345	INT	
<i>PLC_SSPS[10] - MainProgram/Communications - 39(EQU), 40(MOV), 40(NEQ)</i>			
PLC_SSPSCommSample	27345	INT	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PLC_SSPSCommSample - MainProgram/Communications - *40(MOV), 39(EQU), 40(NEQ)</i>			
PRESS1_COMMTIMER1		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_COMMTIMER1 - MainProgram/Communications - *12(TON)</i>			
PRESS1_COMMTIMER1.DN	0	BOOL	
<i>PRESS1_COMMTIMER1.DN - MainProgram/Communications - 12(XIC)</i>			
PRESS1_COMMTIMER2		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_COMMTIMER2 - MainProgram/Communications - *12(TON)</i>			
PRESS1_COMMTIMER2.DN	1	BOOL	
<i>PRESS1_COMMTIMER2.DN - MainProgram/Communications - 12(XIC)</i>			
PRESS1_ConveyorRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_ConveyorRunCMD - MainProgram/Communications - *9(OTE)</i>			
<i>PRESS1_ConveyorRunCMD - MainProgram/L2106_ScrewPressConveyor1 - 11(XIC)</i>			
PRESS1_HeartBeat	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_HeartBeat - MainProgram/Communications - *7(OTE), 12(XIC), 12(XIO)</i>			
PRESS1_READY	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_READY - MainProgram/Communications - *10(OTE)</i>			
<i>PRESS1_READY - MainProgram/L1100_PressControl - 3(XIO)</i>			
PRESS1_SludgePumpRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_SludgePumpRunCMD - MainProgram/Communications - *8(OTE), 30(XIC), 32(XIC), 32(XIO)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>			

PRESS1_SludgePumpRunCMD (Continued)			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>			
PRESS1_SludgePumpSpeedCMD	0	DINT	PLC_SH
Press 1 Sludge Pump Speed Command (HZ 1 implied decimal)			
Constant	No		
External Access:	Read/Write		
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/Communications - *11(MOV), 32(MOV)</i>			
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>			
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>			
PRESS2_COMMTIMER1		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_COMMTIMER1 - MainProgram/Communications - *27(TON)</i>			
PRESS2_COMMTIMER1.DN	0	BOOL	
<i>PRESS2_COMMTIMER1.DN - MainProgram/Communications - 27(XIC)</i>			
PRESS2_COMMTIMER2		TIMER	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_COMMTIMER2 - MainProgram/Communications - *27(TON)</i>			
PRESS2_COMMTIMER2.DN	1	BOOL	
<i>PRESS2_COMMTIMER2.DN - MainProgram/Communications - 27(XIC)</i>			
PRESS2_ConveyorRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_ConveyorRunCMD - MainProgram/Communications - *24(OTE)</i>			
<i>PRESS2_ConveyorRunCMD - MainProgram/L2206_ScrewPressConveyor2 - 11(XIC)</i>			
PRESS2_HeartBeat	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_HeartBeat - MainProgram/Communications - *22(OTE), 27(XIC), 27(XIO)</i>			
PRESS2_READY	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_READY - MainProgram/Communications - *25(OTE)</i>			
<i>PRESS2_READY - MainProgram/L1100_PressControl - 4(XIO)</i>			
PRESS2_SludgePumpRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_SludgePumpRunCMD - MainProgram/Communications - *23(OTE), 30(XIC), 32(XIC), 32(XIO)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>			
PRESS2_SludgePumpSpeedCMD	0	DINT	PLC_SH
Press 2 Sludge Pump Speed Command (HZ 1 implied decimal)			
Constant	No		
External Access:	Read/Write		
<i>PRESS2_SludgePumpSpeedCMD - MainProgram/Communications - *26(MOV), 32(MOV)</i>			
<i>PRESS2_SludgePumpSpeedCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>			
<i>PRESS2_SludgePumpSpeedCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>			
YC1100	0	DINT	PLC_SH
Solids Mode Select (0=SHT1) (1=SHT2) (2=WAS)			
Constant	No		
External Access:	Read/Write		
<i>YC1100 - MainProgram/Communications - 18(EQU), 18(LEQ), 19(EQU), 19(LEQ), 3(EQU), 3(LEQ), 30(EQU), 4(EQU), 4(LEQ)</i>			
<i>YC1100 - MainProgram/L1100_PressControl - 0(NEQ), 1(NEQ), 2(NEQ), 7(EQU)</i>			

YI406	0	BOOL	PLC_SH
Secondary Sludge Pump 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI406 - MainProgram/Communications - *36(OTE), 18(XIC), 3(XIC)</i>			
YI409	0	BOOL	PLC_SH
Secondary Sludge Pump 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI409 - MainProgram/Communications - *37(OTE), 18(XIC), 3(XIC)</i>			
YI1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI1104 - MainProgram/Communications - 18(XIC), 3(XIC)</i>			
<i>YI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *3(OTE), 24(XIC), 25(XIC), 8(XIO), 9(XIC)</i>			
YI1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI1204 - MainProgram/Communications - 18(XIC), 3(XIC)</i>			
<i>YI1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>			
<i>YI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *3(OTE), 24(XIC), 8(XIO), 9(XIC)</i>			
YI2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI2106 - MainProgram/Communications - 30(XIC)</i>			
<i>YI2106 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>YI2106 - MainProgram/L2106_ScrewPressConveyor1 - *1(OTE), 14(XIC), 5(XIO), 6(XIC)</i>			
YI2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI2206 - MainProgram/Communications - 30(XIC)</i>			
<i>YI2206 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>YI2206 - MainProgram/L2206_ScrewPressConveyor2 - *1(OTE), 14(XIC), 5(XIO), 6(XIC)</i>			
YL406	0	BOOL	PLC_SH
Secondary Sludge Pump 1 Auto Ready			
Constant	No		
External Access:	Read/Write		
<i>YL406 - MainProgram/Communications - *34(OTE), 19(XIO), 4(XIO)</i>			
<i>YL406 - MainProgram/L1100_PressControl - 2(XIO)</i>			
YL409	0	BOOL	PLC_SH
Secondary Sludge Pump 2 Auto Ready			
Constant	No		
External Access:	Read/Write		
<i>YL409 - MainProgram/Communications - *35(OTE), 19(XIO), 4(XIO)</i>			
<i>YL409 - MainProgram/L1100_PressControl - 2(XIO)</i>			
YY1100C	7	DINT	PLC_SH
Solids From WAS Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY1100C - MainProgram/Communications - 30(EQU)</i>			
<i>YY1100C - MainProgram/L1100_PressControl - *2(CLR)</i>			
YY1100C.0	1	BOOL	

YY1100C (Continued)				
Solids From WAS Intermux				
<i>YY1100C.0 - MainProgram/L1100_PressControl - *2(OTE)</i>				
YY1100C.1	1		BOOL	
Solids From WAS Intermux				
<i>YY1100C.1 - MainProgram/L1100_PressControl - *2(OTE)</i>				
YY1100C.2	1		BOOL	
Solids From WAS Intermux				
<i>YY1100C.2 - MainProgram/L1100_PressControl - *2(OTE)</i>				
YY1100C.3	0		BOOL	
Solids From WAS Intermux				
<i>YY1100C.3 - MainProgram/L1100_PressControl - *2(OTE)</i>				
YY1100D	11		DINT	PLC_SH
Press 1 Intermux				
Constant No				
External Access: Read/Write				
<i>YY1100D - MainProgram/Communications - 1(EQU), 2(NEQ), 30(EQU)</i>				
<i>YY1100D - MainProgram/L1100_PressControl - *3(CLR), 5(NEQ), 7(EQU)</i>				
YY1100D.0	1		BOOL	
Press 1 Intermux				
<i>YY1100D.0 - MainProgram/L1100_PressControl - *3(OTE)</i>				
YY1100D.1	1		BOOL	
Press 1 Intermux				
<i>YY1100D.1 - MainProgram/L1100_PressControl - *3(OTE)</i>				
YY1100D.2	0		BOOL	
Press 1 Intermux				
<i>YY1100D.2 - MainProgram/L1100_PressControl - *3(OTE)</i>				
YY1100D.3	1		BOOL	
Press 1 Intermux				
<i>YY1100D.3 - MainProgram/L1100_PressControl - *3(OTE)</i>				
YY1100E	11		DINT	PLC_SH
Press 2 Intermux				
Constant No				
External Access: Read/Write				
<i>YY1100E - MainProgram/Communications - 16(EQU), 17(NEQ), 30(EQU)</i>				
<i>YY1100E - MainProgram/L1100_PressControl - *4(CLR), 6(NEQ), 7(EQU)</i>				
YY1100E.0	1		BOOL	
Press 2 Intermux				
<i>YY1100E.0 - MainProgram/L1100_PressControl - *4(OTE)</i>				
YY1100E.1	1		BOOL	
Press 2 Intermux				
<i>YY1100E.1 - MainProgram/L1100_PressControl - *4(OTE)</i>				
YY1100E.2	0		BOOL	
Press 2 Intermux				
<i>YY1100E.2 - MainProgram/L1100_PressControl - *4(OTE)</i>				
YY1100E.3	1		BOOL	
Press 2 Intermux				
<i>YY1100E.3 - MainProgram/L1100_PressControl - *4(OTE)</i>				
ZIO2101	0		BOOL	PLC_SH
Press 1 Sludge Valve Open				
Constant No				
External Access: Read/Write				
<i>ZIO2101 - MainProgram/Communications - 30(XIC)</i>				
<i>ZIO2101 - MainProgram/L1100_PressControl - 7(XIC)</i>				
<i>ZIO2101 - MainProgram/L2101_Press1_SludgeValve - *1(OTE), 6(XIO)</i>				
ZIO2201	0		BOOL	PLC_SH
Press 2 Sludge Valve Open				
Constant No				
External Access: Read/Write				
<i>ZIO2201 - MainProgram/Communications - 30(XIC)</i>				

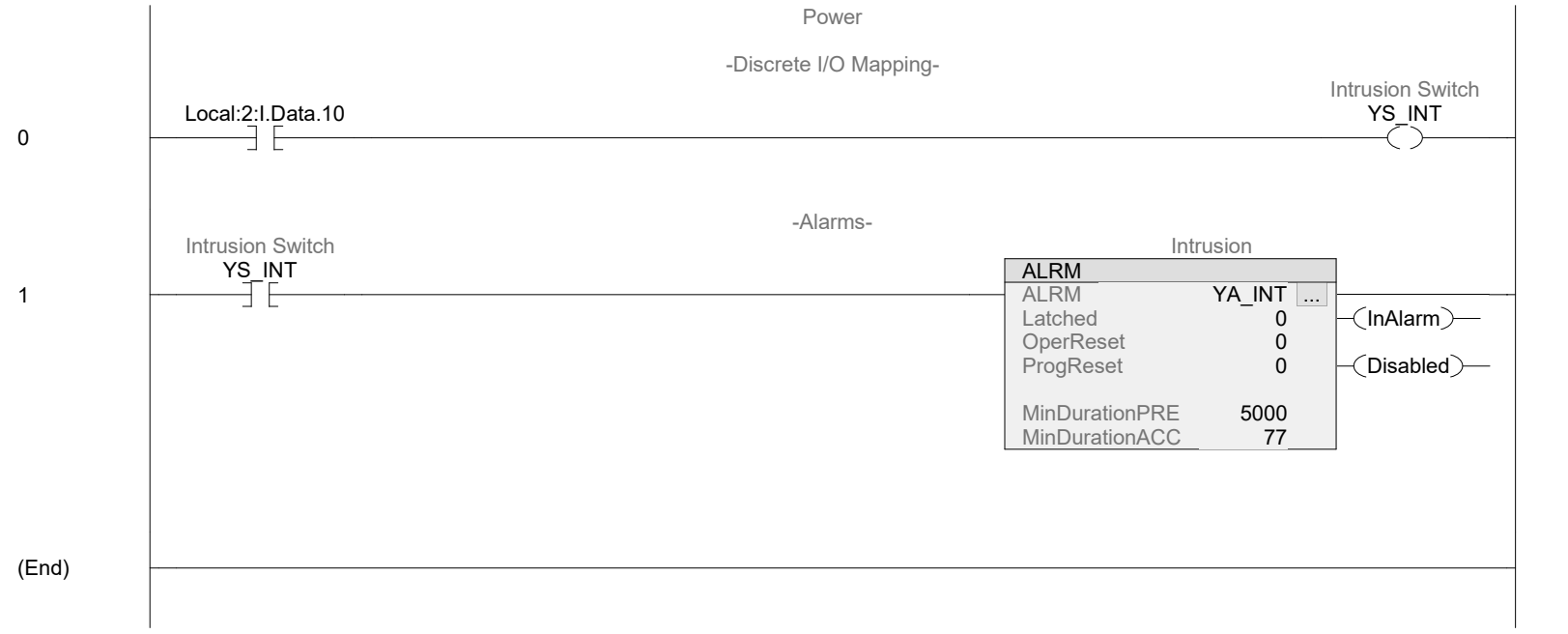
ZIO2201 (Continued)

ZIO2201 - MainProgram/L1100_PressControl - 7(XIC)

*ZIO2201 - MainProgram/L2201_Press2_SludgeValve - *1(OTE), 6(XIO)*

General

Type:	 Ladder Diagram	Number of Rungs:	41
In Program:	 MainProgram		

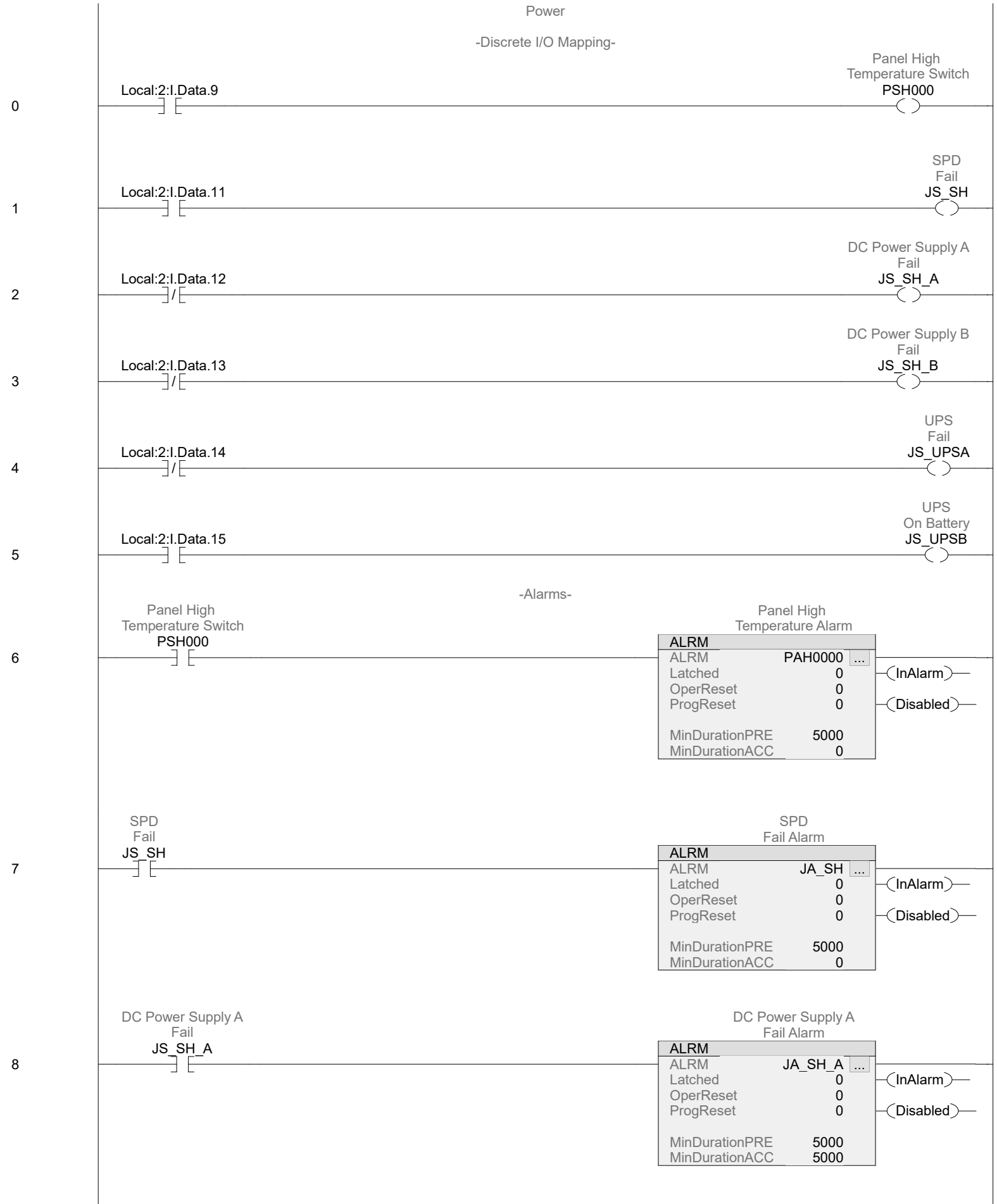


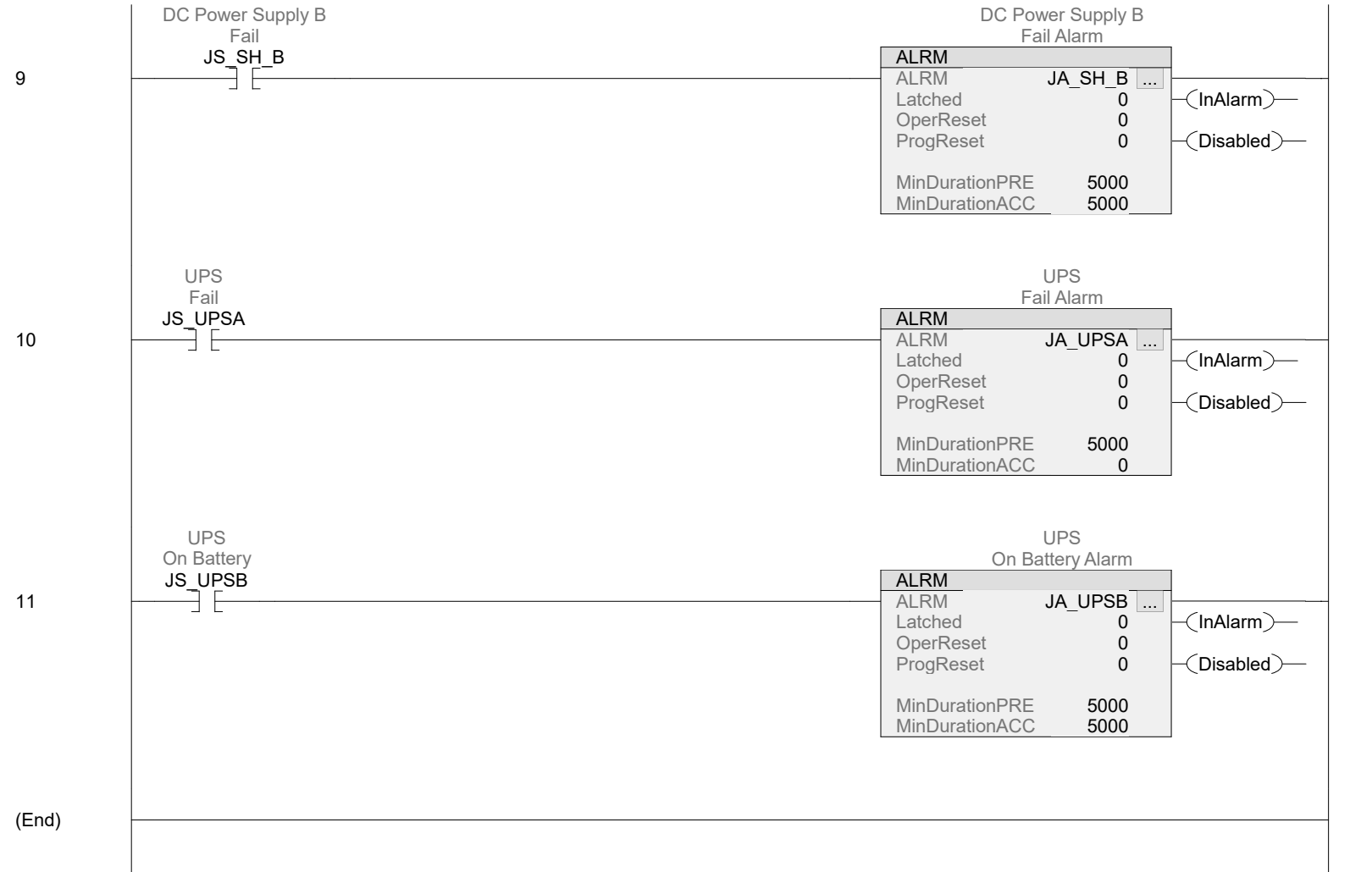
Name	Value	Data Type	Scope
Local:2:I		AB:1769_DI16:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:2:I.Data.0	0	BOOL	
<i>Local:2:I.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - 0(XIC)</i>			
Local:2:I.Data.1	0	BOOL	
<i>Local:2:I.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - 1(XIC)</i>			
Local:2:I.Data.2	0	BOOL	
<i>Local:2:I.Data.2 - MainProgram/L2106_ScrewPressConveyor1 - 2(XIC)</i>			
Local:2:I.Data.3	0	BOOL	
<i>Local:2:I.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - 0(XIC)</i>			
Local:2:I.Data.4	0	BOOL	
<i>Local:2:I.Data.4 - MainProgram/L2206_ScrewPressConveyor2 - 1(XIC)</i>			
Local:2:I.Data.5	0	BOOL	
<i>Local:2:I.Data.5 - MainProgram/L2206_ScrewPressConveyor2 - 2(XIC)</i>			
Local:2:I.Data.9	0	BOOL	
<i>Local:2:I.Data.9 - MainProgram/L0000_Power - 0(XIC)</i>			
<i>Local:2:I.Data.9 - MainProgram/MainRoutine - 3(XIC)</i>			
Local:2:I.Data.10	0	BOOL	
<i>Local:2:I.Data.10 - MainProgram/L0000_Intrusion - 0(XIC)</i>			
<i>Local:2:I.Data.10 - MainProgram/MainRoutine - 4(XIO)</i>			
Local:2:I.Data.11	0	BOOL	
<i>Local:2:I.Data.11 - MainProgram/L0000_Power - 1(XIC)</i>			
Local:2:I.Data.12	1	BOOL	
<i>Local:2:I.Data.12 - MainProgram/L0000_Power - 2(XIO)</i>			
Local:2:I.Data.13	1	BOOL	
<i>Local:2:I.Data.13 - MainProgram/L0000_Power - 3(XIO)</i>			
Local:2:I.Data.14	1	BOOL	
<i>Local:2:I.Data.14 - MainProgram/L0000_Power - 4(XIO)</i>			
Local:2:I.Data.15	0	BOOL	
<i>Local:2:I.Data.15 - MainProgram/L0000_Power - 5(XIC)</i>			
YA_INT		ALRM	PLC_SH
Intrusion			
Constant	No		
External Access:	Read/Write		
<i>YA_INT - MainProgram/L0000_Intrusion - *I(ALRM)</i>			
YA_INT.EnableIn	0	BOOL	
Intrusion Enable Input - System Defined Parameter			
YA_INT.EnableOut	0	BOOL	
Intrusion Enable Output - System Defined Parameter			
YA_INT.Latched	0	BOOL	
Intrusion			
YA_INT.OperReset	0	BOOL	
Intrusion			
YA_INT.ProgReset	0	BOOL	
Intrusion			
YA_INT.OperDisable	0	BOOL	
Intrusion			
YA_INT.OperEnable	0	BOOL	
Intrusion			
YA_INT.AlarmCountReset	0	BOOL	
Intrusion Set to 1 to reset alarm count			
YA_INT.InAlarm	0	BOOL	
Intrusion			
YA_INT.Disabled	0	BOOL	
Intrusion			
YA_INT.MinDurationPRE	5000	DINT	
Intrusion			
YA_INT.MinDurationACC	77	DINT	
Intrusion			
YA_INT.AlarmCount	16	DINT	
Intrusion			

YA_INT (Continued)				
YA_INT.InAlarmDate	11072022		DINT	
Intrusion				
YA_INT.InAlarmTime	90426		DINT	
Intrusion				
YA_INT.RefToNormalDate	11072022		DINT	
Intrusion				
YA_INT.RefToNormalTime	91547		DINT	
Intrusion				
YA_INT.AlarmCountResetDate	0		DINT	
Intrusion				
YA_INT.AlarmCountResetTime	0		DINT	
Intrusion				
YS_INT	0		BOOL	PLC_SH
Intrusion Switch				
Constant	No			
External Access:	Read/Write			
<i>YS_INT - MainProgram/L0000_Intrusion - *0(OTE), 1(XIC)</i>				

General

Type:	 Ladder Diagram	Number of Rungs:	2
In Program:	 MainProgram		





Name	Value	Data Type	Scope
JA_SH		ALRM	PLC_SH
SPD Fail Alarm			
Constant	No		
External Access:	Read/Write		
<i>JA_SH - MainProgram/L0000_Power - *7(ALRM)</i>			
JA_SH.EnableIn	0	BOOL	
SPD Fail Alarm Enable Input - System Defined Parameter			
JA_SH.EnableOut	0	BOOL	
SPD Fail Alarm Enable Output - System Defined Parameter			
JA_SH.Latched	0	BOOL	
SPD Fail Alarm			
JA_SH.OperReset	0	BOOL	
SPD Fail Alarm			
JA_SH.ProgReset	0	BOOL	
SPD Fail Alarm			
JA_SH.OperDisable	0	BOOL	
SPD Fail Alarm			
JA_SH.OperEnable	0	BOOL	
SPD Fail Alarm			
JA_SH.AlarmCountReset	0	BOOL	
SPD Fail Alarm Set to 1 to reset alarm count			
JA_SH.InAlarm	0	BOOL	
SPD Fail Alarm			
JA_SH.Disabled	0	BOOL	
SPD Fail Alarm			
JA_SH.MinDurationPRE	5000	DINT	
SPD Fail Alarm			
JA_SH.MinDurationACC	0	DINT	
SPD Fail Alarm			
JA_SH.AlarmCount	2	DINT	
SPD Fail Alarm			
JA_SH.InAlarmDate	1011998	DINT	
SPD Fail Alarm			
JA_SH.InAlarmTime	1032	DINT	
SPD Fail Alarm			
JA_SH.RetToNormalDate	10272022	DINT	
SPD Fail Alarm			
JA_SH.RetToNormalTime	120926	DINT	
SPD Fail Alarm			
JA_SH.AlarmCountResetDate	0	DINT	
SPD Fail Alarm			
JA_SH.AlarmCountResetTime	0	DINT	
SPD Fail Alarm			
JA_SH_A		ALRM	PLC_SH
DC Power Supply A Fail Alarm			
Constant	No		
External Access:	Read/Write		
<i>JA_SH_A - MainProgram/L0000_Power - *8(ALRM)</i>			
JA_SH_A.EnableIn	0	BOOL	
DC Power Supply A Fail Alarm Enable Input - System Defined Parameter			
JA_SH_A.EnableOut	0	BOOL	
DC Power Supply A Fail Alarm Enable Output - System Defined Parameter			
JA_SH_A.Latched	0	BOOL	
DC Power Supply A Fail Alarm			
JA_SH_A.OperReset	0	BOOL	
DC Power Supply A Fail Alarm			
JA_SH_A.ProgReset	0	BOOL	
DC Power Supply A Fail Alarm			
JA_SH_A.OperDisable	0	BOOL	
DC Power Supply A Fail Alarm			
JA_SH_A.OperEnable	0	BOOL	
DC Power Supply A Fail Alarm			

JA_SH_A (Continued)		
JA_SH_A.AlarmCountReset	0	BOOL
DC Power Supply A Fail Alarm Set to 1 to reset alarm count		
JA_SH_A.InAlarm	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.Disabled	0	BOOL
DC Power Supply A Fail Alarm		
JA_SH_A.MinDurationPRE	5000	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.MinDurationACC	5000	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCount	4	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.InAlarmDate	1011998	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.InAlarmTime	3222	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.RetToNormalDate	10272022	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.RetToNormalTime	120926	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCountResetDate	0	DINT
DC Power Supply A Fail Alarm		
JA_SH_A.AlarmCountResetTime	0	DINT
DC Power Supply A Fail Alarm		
JA_SH_B		ALRM
DC Power Supply B Fail Alarm		PLC_SH
Constant	No	
External Access:	Read/Write	
<i>JA_SH_B - MainProgram/L0000_Power - *9(ALRM)</i>		
JA_SH_B.EnableIn	0	BOOL
DC Power Supply B Fail Alarm Enable Input - System Defined Parameter		
JA_SH_B.EnableOut	0	BOOL
DC Power Supply B Fail Alarm Enable Output - System Defined Parameter		
JA_SH_B.Latched	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.OperReset	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.ProgReset	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.OperDisable	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.OperEnable	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCountReset	0	BOOL
DC Power Supply B Fail Alarm Set to 1 to reset alarm count		
JA_SH_B.InAlarm	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.Disabled	0	BOOL
DC Power Supply B Fail Alarm		
JA_SH_B.MinDurationPRE	5000	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.MinDurationACC	5000	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCount	3	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.InAlarmDate	1011998	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.InAlarmTime	3222	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.RetToNormalDate	10272022	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.RetToNormalTime	120926	DINT

JA_SH_B (Continued)

DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCountResetDate	0	DINT
DC Power Supply B Fail Alarm		
JA_SH_B.AlarmCountResetTime	0	DINT
DC Power Supply B Fail Alarm		

JA_UPSA ALRM PLC_SH

UPS Fail Alarm		
Constant	No	
External Access:	Read/Write	
<i>JA_UPSA - MainProgram/L0000_Power - *10(ALRM)</i>		
JA_UPSA.EnableIn	0	BOOL
UPS Fail Alarm Enable Input - System Defined Parameter		
JA_UPSA.EnableOut	0	BOOL
UPS Fail Alarm Enable Output - System Defined Parameter		
JA_UPSA.Latched	0	BOOL
UPS Fail Alarm		
JA_UPSA.OperReset	0	BOOL
UPS Fail Alarm		
JA_UPSA.ProgReset	0	BOOL
UPS Fail Alarm		
JA_UPSA.OperDisable	0	BOOL
UPS Fail Alarm		
JA_UPSA.OperEnable	0	BOOL
UPS Fail Alarm		
JA_UPSA.AlarmCountReset	0	BOOL
UPS Fail Alarm Set to 1 to reset alarm count		
JA_UPSA.InAlarm	0	BOOL
UPS Fail Alarm		
JA_UPSA.Disabled	0	BOOL
UPS Fail Alarm		
JA_UPSA.MinDurationPRE	5000	DINT
UPS Fail Alarm		
JA_UPSA.MinDurationACC	0	DINT
UPS Fail Alarm		
JA_UPSA.AlarmCount	1	DINT
UPS Fail Alarm		
JA_UPSA.InAlarmDate	1011998	DINT
UPS Fail Alarm		
JA_UPSA.InAlarmTime	144	DINT
UPS Fail Alarm		
JA_UPSA.RetToNormalDate	10272022	DINT
UPS Fail Alarm		
JA_UPSA.RetToNormalTime	120926	DINT
UPS Fail Alarm		
JA_UPSA.AlarmCountResetDate	0	DINT
UPS Fail Alarm		
JA_UPSA.AlarmCountResetTime	0	DINT
UPS Fail Alarm		

JA_UPSB ALRM PLC_SH

UPS On Battery Alarm		
Constant	No	
External Access:	Read/Write	
<i>JA_UPSB - MainProgram/L0000_Power - *11(ALRM)</i>		
JA_UPSB.EnableIn	0	BOOL
UPS On Battery Alarm Enable Input - System Defined Parameter		
JA_UPSB.EnableOut	0	BOOL
UPS On Battery Alarm Enable Output - System Defined Parameter		
JA_UPSB.Latched	0	BOOL
UPS On Battery Alarm		
JA_UPSB.OperReset	0	BOOL
UPS On Battery Alarm		

JA_UPSB (Continued)			
JA_UPSB.ProgReset	0	BOOL	
UPS On Battery Alarm			
JA_UPSB.OperDisable	0	BOOL	
UPS On Battery Alarm			
JA_UPSB.OperEnable	0	BOOL	
UPS On Battery Alarm			
JA_UPSB.AlarmCountReset	0	BOOL	
UPS On Battery Alarm Set to 1 to reset alarm count			
JA_UPSB.InAlarm	0	BOOL	
UPS On Battery Alarm			
JA_UPSB.Disabled	0	BOOL	
UPS On Battery Alarm			
JA_UPSB.MinDurationPRE	5000	DINT	
UPS On Battery Alarm			
JA_UPSB.MinDurationACC	5000	DINT	
UPS On Battery Alarm			
JA_UPSB.AlarmCount	3	DINT	
UPS On Battery Alarm			
JA_UPSB.InAlarmDate	1011998	DINT	
UPS On Battery Alarm			
JA_UPSB.InAlarmTime	3223	DINT	
UPS On Battery Alarm			
JA_UPSB.RefToNormalDate	10272022	DINT	
UPS On Battery Alarm			
JA_UPSB.RefToNormalTime	120926	DINT	
UPS On Battery Alarm			
JA_UPSB.AlarmCountResetDate	0	DINT	
UPS On Battery Alarm			
JA_UPSB.AlarmCountResetTime	0	DINT	
UPS On Battery Alarm			
JS_SH	0	BOOL	PLC_SH
SPD Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_SH - MainProgram/L0000_Power - *1(OTE), 7(XIC)</i>			
JS_SH_A	0	BOOL	PLC_SH
DC Power Supply A Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_SH_A - MainProgram/L0000_Power - *2(OTE), 8(XIC)</i>			
JS_SH_B	0	BOOL	PLC_SH
DC Power Supply B Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_SH_B - MainProgram/L0000_Power - *3(OTE), 9(XIC)</i>			
JS_UPSA	0	BOOL	PLC_SH
UPS Fail			
Constant	No		
External Access:	Read/Write		
<i>JS_UPSA - MainProgram/L0000_Power - *4(OTE), 10(XIC)</i>			
JS_UPSB	0	BOOL	PLC_SH
UPS On Battery			
Constant	No		
External Access:	Read/Write		
<i>JS_UPSB - MainProgram/L0000_Power - *5(OTE), 11(XIC)</i>			
Local:2:I		AB:1769_DI16:I:0	PLC_SH
Constant	No		

Local:2:I (Continued)

External Access:	Read/Write	
Local:2:I.Data.0	0	BOOL
<i>Local:2:I.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - 0(XIC)</i>		
Local:2:I.Data.1	0	BOOL
<i>Local:2:I.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - 1(XIC)</i>		
Local:2:I.Data.2	0	BOOL
<i>Local:2:I.Data.2 - MainProgram/L2106_ScrewPressConveyor1 - 2(XIC)</i>		
Local:2:I.Data.3	0	BOOL
<i>Local:2:I.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - 0(XIC)</i>		
Local:2:I.Data.4	0	BOOL
<i>Local:2:I.Data.4 - MainProgram/L2206_ScrewPressConveyor2 - 1(XIC)</i>		
Local:2:I.Data.5	0	BOOL
<i>Local:2:I.Data.5 - MainProgram/L2206_ScrewPressConveyor2 - 2(XIC)</i>		
Local:2:I.Data.9	0	BOOL
<i>Local:2:I.Data.9 - MainProgram/L0000_Power - 0(XIC)</i>		
<i>Local:2:I.Data.9 - MainProgram/MainRoutine - 3(XIC)</i>		
Local:2:I.Data.10	0	BOOL
<i>Local:2:I.Data.10 - MainProgram/L0000_Intrusion - 0(XIC)</i>		
<i>Local:2:I.Data.10 - MainProgram/MainRoutine - 4(XIO)</i>		
Local:2:I.Data.11	0	BOOL
<i>Local:2:I.Data.11 - MainProgram/L0000_Power - 1(XIC)</i>		
Local:2:I.Data.12	1	BOOL
<i>Local:2:I.Data.12 - MainProgram/L0000_Power - 2(XIO)</i>		
Local:2:I.Data.13	1	BOOL
<i>Local:2:I.Data.13 - MainProgram/L0000_Power - 3(XIO)</i>		
Local:2:I.Data.14	1	BOOL
<i>Local:2:I.Data.14 - MainProgram/L0000_Power - 4(XIO)</i>		
Local:2:I.Data.15	0	BOOL
<i>Local:2:I.Data.15 - MainProgram/L0000_Power - 5(XIC)</i>		

PAH0000 ALRM PLC_SH

Panel High Temperature Alarm		
Constant	No	
External Access:	Read/Write	
<i>PAH0000 - MainProgram/L0000_Power - *6(ALRM)</i>		
PAH0000.EnableIn	0	BOOL
Panel High Temperature Alarm Enable Input - System Defined Parameter		
PAH0000.EnableOut	0	BOOL
Panel High Temperature Alarm Enable Output - System Defined Parameter		
PAH0000.Latched	0	BOOL
Panel High Temperature Alarm		
PAH0000.OperReset	0	BOOL
Panel High Temperature Alarm		
PAH0000.ProgReset	0	BOOL
Panel High Temperature Alarm		
PAH0000.OperDisable	0	BOOL
Panel High Temperature Alarm		
PAH0000.OperEnable	0	BOOL
Panel High Temperature Alarm		
PAH0000.AlarmCountReset	0	BOOL
Panel High Temperature Alarm Set to 1 to reset alarm count		
PAH0000.InAlarm	0	BOOL
Panel High Temperature Alarm		
PAH0000.Disabled	0	BOOL
Panel High Temperature Alarm		
PAH0000.MinDurationPRE	5000	DINT
Panel High Temperature Alarm		
PAH0000.MinDurationACC	0	DINT
Panel High Temperature Alarm		
PAH0000.AlarmCount	0	DINT
Panel High Temperature Alarm		
PAH0000.InAlarmDate	0	DINT
Panel High Temperature Alarm		

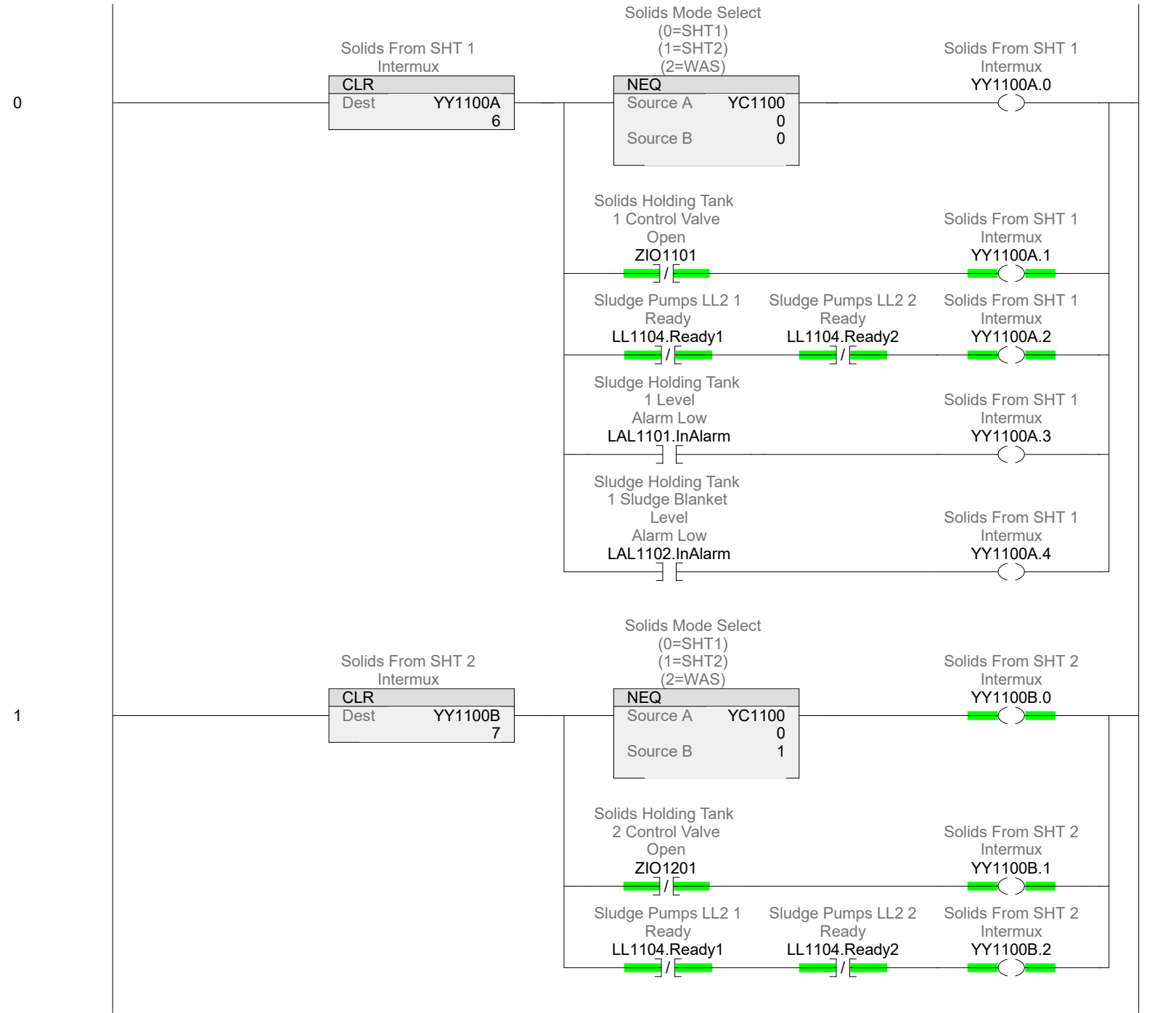
PAH0000 (Continued)

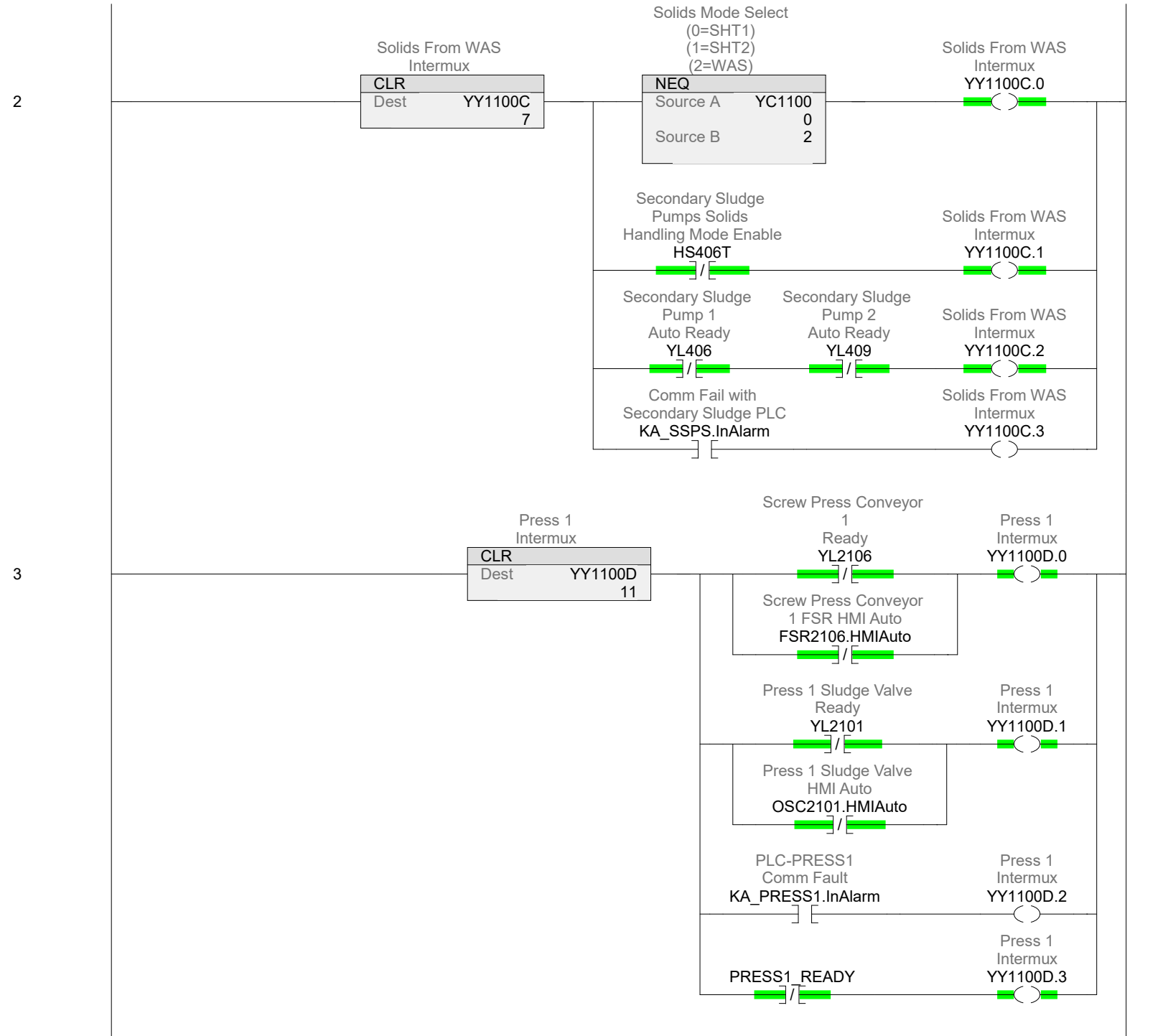
PAH0000.InAlarmTime	0	DINT	
Panel High Temperature Alarm			
PAH0000.RetToNormalDate	0	DINT	
Panel High Temperature Alarm			
PAH0000.RetToNormalTime	0	DINT	
Panel High Temperature Alarm			
PAH0000.AlarmCountResetDate	0	DINT	
Panel High Temperature Alarm			
PAH0000.AlarmCountResetTime	0	DINT	
Panel High Temperature Alarm			

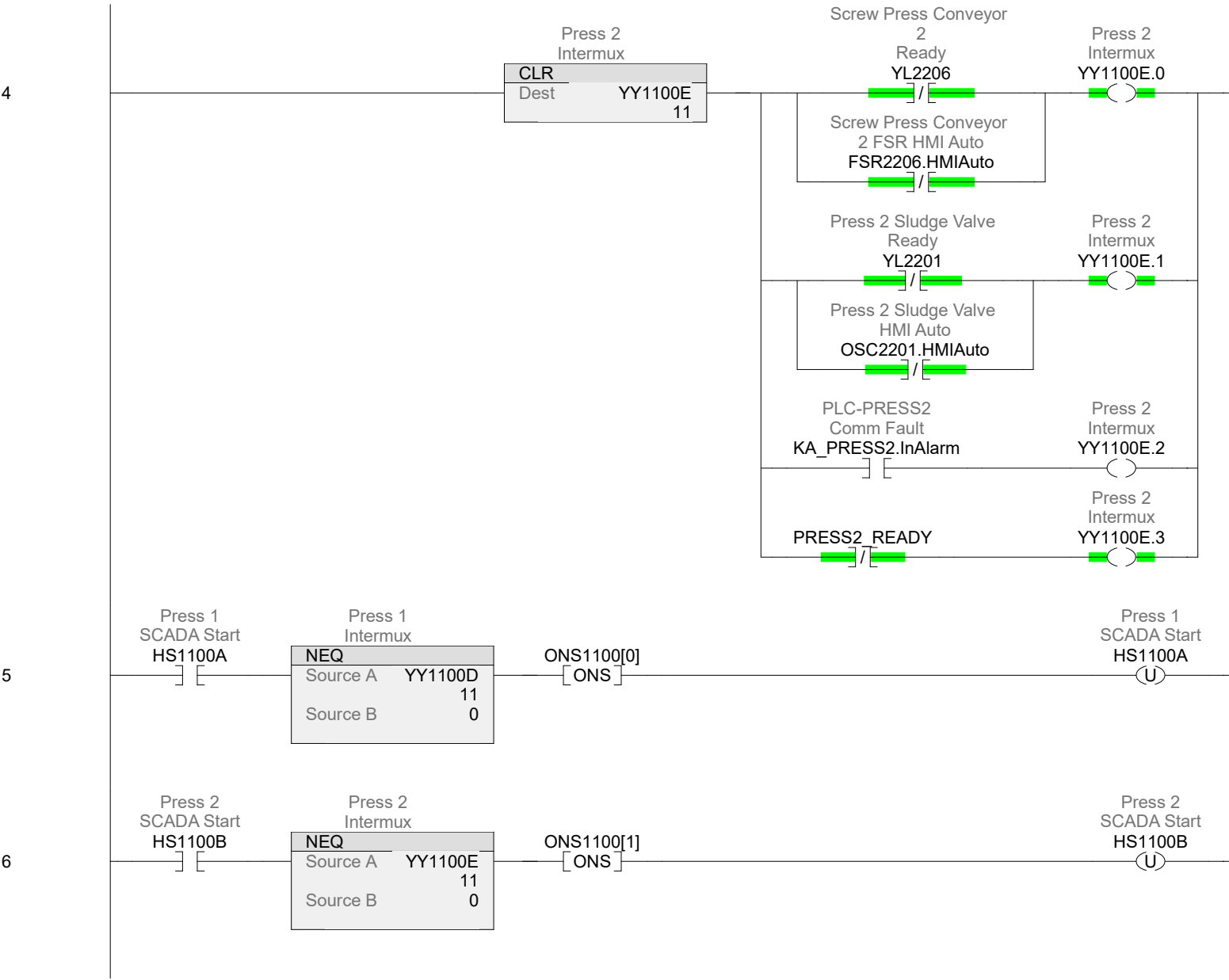
PSH000	0	BOOL	PLC_SH
Panel High Temperature Switch			
Constant	No		
External Access:	Read/Write		
<i>PSH000 - MainProgram/L0000_Power - *0(OTE), 6(XIC)</i>			

General

Type:	 Ladder Diagram	Number of Rungs:	12
In Program:	 MainProgram		







Sludge Pump Auto Start

7

Solids Mode Select
 (0=SHT1)
 (1=SHT2)
 (2=WAS)

EQU	
Source A	YC1100
Source B	0

Solids From SHT 1
 Intermux

EQU	
Source A	YY1100A
Source B	6

Solids Mode Select
 (0=SHT1)
 (1=SHT2)
 (2=WAS)

EQU	
Source A	YC1100
Source B	1

Solids From SHT 2
 Intermux

EQU	
Source A	YY1100B
Source B	7

Press 1
 Intermux

EQU	
Source A	YY1100D
Source B	0

PRESS1_SludgePumpRunCMD

Press 1 Sludge Valve
 Open
 ZIO2101

Screw Press Conveyor
 1
 Running
 YI2106

Press 2
 Intermux

EQU	
Source A	YY1100E
Source B	0

PRESS2_SludgePumpRunCMD

Press 2 Sludge Valve
 Open
 ZIO2201

Screw Press Conveyor
 2
 Running
 YI2206

Sludge Pump
 Auto Start Cmd
 YC1100A

(End)

Name	Value	Data Type	Scope
FSR2106		FSR	PLC_SH
Screw Press Conveyor 1 FSR			
Constant	No		
External Access:	Read/Write		
<i>FSR2106 - MainProgram/L2106_ScrewPressConveyor1 - *13(FSR)</i>			
FSR2106.EnableIn	0	BOOL	
Screw Press Conveyor 1 FSR Enable Input - System Defined Parameter			
FSR2106.EnableOut	0	BOOL	
Screw Press Conveyor 1 FSR Enable Output - System Defined Parameter			
FSR2106.HMIAuto	0	BOOL	
Screw Press Conveyor 1 FSR HMI Auto			
<i>FSR2106.HMIAuto - MainProgram/L1100_PressControl - 3(XIO)</i>			
FSR2106.AutoForward	0	BOOL	
Screw Press Conveyor 1 FSR Auto Forward Command			
<i>FSR2106.AutoForward - MainProgram/L2106_ScrewPressConveyor1 - *11(OTE)</i>			
FSR2106.AutoStop	0	BOOL	
Screw Press Conveyor 1 FSR Auto Stop Command			
FSR2106.AutoReverse	0	BOOL	
Screw Press Conveyor 1 FSR Auto Reverse Command			
<i>FSR2106.AutoReverse - MainProgram/L2106_ScrewPressConveyor1 - *12(OTE)</i>			
FSR2106.HMIForward	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Forward			
FSR2106.HMISTop	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Stop			
FSR2106.HMIRreverse	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Reverse			
FSR2106.ForwardCmd	0	BOOL	
Screw Press Conveyor 1 FSR Forward Command			
<i>FSR2106.ForwardCmd - MainProgram/L2106_ScrewPressConveyor1 - 3(XIC), 5(XIC), 6(XIO)</i>			
FSR2106.StopCmd	1	BOOL	
Screw Press Conveyor 1 FSR Stop Command			
FSR2106.ReverseCmd	0	BOOL	
Screw Press Conveyor 1 FSR Reverse Command			
<i>FSR2106.ReverseCmd - MainProgram/L2106_ScrewPressConveyor1 - 4(XIC), 5(XIC), 6(XIO)</i>			
FSR2106.RestartActive	0	BOOL	
Screw Press Conveyor 1 FSR Restart Delay Active			
FSR2106.RestartPRE	2000	DINT	
Screw Press Conveyor 1 FSR Restart Delay Preset (Milliseconds)			
FSR2106.RestartTime	0	DINT	
Screw Press Conveyor 1 FSR Actual Restart Time (Times Down)			
FSR2206		FSR	PLC_SH
Screw Press Conveyor 2 FSR			
Constant	No		
External Access:	Read/Write		
<i>FSR2206 - MainProgram/L2206_ScrewPressConveyor2 - *13(FSR)</i>			
FSR2206.EnableIn	0	BOOL	
Screw Press Conveyor 2 FSR Enable Input - System Defined Parameter			
FSR2206.EnableOut	0	BOOL	
Screw Press Conveyor 2 FSR Enable Output - System Defined Parameter			
FSR2206.HMIAuto	0	BOOL	
Screw Press Conveyor 2 FSR HMI Auto			
<i>FSR2206.HMIAuto - MainProgram/L1100_PressControl - 4(XIO)</i>			
FSR2206.AutoForward	0	BOOL	
Screw Press Conveyor 2 FSR Auto Forward Command			
<i>FSR2206.AutoForward - MainProgram/L2206_ScrewPressConveyor2 - *11(OTE)</i>			
FSR2206.AutoStop	0	BOOL	
Screw Press Conveyor 2 FSR Auto Stop Command			
FSR2206.AutoReverse	0	BOOL	
Screw Press Conveyor 2 FSR Auto Reverse Command			
<i>FSR2206.AutoReverse - MainProgram/L2206_ScrewPressConveyor2 - *12(OTE)</i>			
FSR2206.HMIForward	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Forward			

FSR2206 (Continued)			
FSR2206.HMIStop	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Stop			
FSR2206.HMIReverse	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Reverse			
FSR2206.ForwardCmd	0	BOOL	
Screw Press Conveyor 2 FSR Forward Command			
<i>FSR2206.ForwardCmd - MainProgram/L2206_ScrewPressConveyor2 - 3(XIC), 5(XIC), 6(XIO)</i>			
FSR2206.StopCmd	1	BOOL	
Screw Press Conveyor 2 FSR Stop Command			
FSR2206.ReverseCmd	0	BOOL	
Screw Press Conveyor 2 FSR Reverse Command			
<i>FSR2206.ReverseCmd - MainProgram/L2206_ScrewPressConveyor2 - 4(XIC), 5(XIC), 6(XIO)</i>			
FSR2206.RestartActive	0	BOOL	
Screw Press Conveyor 2 FSR Restart Delay Active			
FSR2206.RestartPRE	2000	DINT	
Screw Press Conveyor 2 FSR Restart Delay Preset (Milliseconds)			
FSR2206.RestartTime	0	DINT	
Screw Press Conveyor 2 FSR Actual Restart Time (Times Down)			
HS406T	0	BOOL	PLC_SH
Secondary Sludge Pumps Solids Handling Mode Enable			
Constant No			
External Access: Read/Write			
<i>HS406T - MainProgram/Communications - *38(OTE), 32(XIC), 32(XIO)</i>			
<i>HS406T - MainProgram/L1100_PressControl - 2(XIO)</i>			
HS1100A	0	BOOL	PLC_SH
Press 1 SCADA Start			
Constant No			
External Access: Read/Write			
<i>HS1100A - MainProgram/Communications - 1(XIC), 2(XIO)</i>			
<i>HS1100A - MainProgram/L1100_PressControl - *5(OTU), 5(XIC)</i>			
<i>HS1100A - MainProgram/L1101_SHT1_ControlValve - 12(XIC)</i>			
HS1100B	0	BOOL	PLC_SH
Press 2 SCADA Start			
Constant No			
External Access: Read/Write			
<i>HS1100B - MainProgram/Communications - 16(XIC), 17(XIO)</i>			
<i>HS1100B - MainProgram/L1100_PressControl - *6(OTU), 6(XIC)</i>			
<i>HS1100B - MainProgram/L1201_SHT2_ControlValve - 12(XIC)</i>			
KA_PRESS1		ALRM	PLC_SH
PLC-PRESS1 Comm Fault			
Constant No			
External Access: Read/Write			
<i>KA_PRESS1 - MainProgram/Communications - *12(ALRM)</i>			
KA_PRESS1.EnableIn	1	BOOL	
PLC-PRESS1 Comm Fault Enable Input - System Defined Parameter			
KA_PRESS1.EnableOut	1	BOOL	
PLC-PRESS1 Comm Fault Enable Output - System Defined Parameter			
KA_PRESS1.Latched	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperReset	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.ProgReset	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperDisable	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.OperEnable	0	BOOL	
PLC-PRESS1 Comm Fault			
KA_PRESS1.AlarmCountReset	0	BOOL	
PLC-PRESS1 Comm Fault Set to 1 to reset alarm count			

KA_PRESS1 (Continued)		
KA_PRESS1.InAlarm	0	BOOL
PLC-PRESS1 Comm Fault		
<i>KA_PRESS1.InAlarm - MainProgram/L1100_PressControl - 3(XIC)</i>		
KA_PRESS1.Disabled	1	BOOL
PLC-PRESS1 Comm Fault		
KA_PRESS1.MinDurationPRE	60000	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.MinDurationACC	60000	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.AlarmCount	4	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.InAlarmDate	10272022	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.InAlarmTime	121031	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.RetToNormalDate	10312022	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.RetToNormalTime	112117	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.AlarmCountResetDate	0	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS1.AlarmCountResetTime	0	DINT
PLC-PRESS1 Comm Fault		
KA_PRESS2		ALRM
PLC-PRESS2 Comm Fault		
Constant	No	
External Access:	Read/Write	
<i>KA_PRESS2 - MainProgram/Communications - *27(ALRM)</i>		
KA_PRESS2.EnableIn	1	BOOL
PLC-PRESS2 Comm Fault Enable Input - System Defined Parameter		
KA_PRESS2.EnableOut	1	BOOL
PLC-PRESS2 Comm Fault Enable Output - System Defined Parameter		
KA_PRESS2.Latched	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperReset	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.ProgReset	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperDisable	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.OperEnable	0	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCountReset	0	BOOL
PLC-PRESS2 Comm Fault Set to 1 to reset alarm count		
KA_PRESS2.InAlarm	0	BOOL
PLC-PRESS2 Comm Fault		
<i>KA_PRESS2.InAlarm - MainProgram/L1100_PressControl - 4(XIC)</i>		
KA_PRESS2.Disabled	1	BOOL
PLC-PRESS2 Comm Fault		
KA_PRESS2.MinDurationPRE	60000	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.MinDurationACC	60000	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.AlarmCount	4	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.InAlarmDate	10272022	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.InAlarmTime	121031	DINT
PLC-PRESS2 Comm Fault		
KA_PRESS2.RetToNormalDate	10312022	DINT

PLC_SH

KA_PRESS2 (Continued)

PLC-PRESS2 Comm Fault
KA_PRESS2.RetToNormalTime 112123 DINT
 PLC-PRESS2 Comm Fault
KA_PRESS2.AlarmCountResetDate 0 DINT
 PLC-PRESS2 Comm Fault
KA_PRESS2.AlarmCountResetTime 0 DINT
 PLC-PRESS2 Comm Fault

KA_SSPS ALRM PLC_SH

Comm Fail with Secondary Sludge PLC
 Constant No
 External Access: Read/Write
*KA_SSPS - MainProgram/Communications - *39(ALRM)*
KA_SSPS.EnableIn 1 BOOL
 Comm Fail with Secondary Sludge PLC Enable Input - System Defined Parameter
KA_SSPS.EnableOut 1 BOOL
 Comm Fail with Secondary Sludge PLC Enable Output - System Defined Parameter
KA_SSPS.Latched 0 BOOL
 Comm Fail with Secondary Sludge PLC
KA_SSPS.OperReset 0 BOOL
 Comm Fail with Secondary Sludge PLC
KA_SSPS.ProgReset 0 BOOL
 Comm Fail with Secondary Sludge PLC
KA_SSPS.OperDisable 0 BOOL
 Comm Fail with Secondary Sludge PLC
KA_SSPS.OperEnable 0 BOOL
 Comm Fail with Secondary Sludge PLC
KA_SSPS.AlarmCountReset 0 BOOL
 Comm Fail with Secondary Sludge PLC Set to 1 to reset alarm count
KA_SSPS.InAlarm 0 BOOL
 Comm Fail with Secondary Sludge PLC
KA_SSPS.InAlarm - MainProgram/L1100_PressControl - 2(XIC)
KA_SSPS.Disabled 0 BOOL
 Comm Fail with Secondary Sludge PLC
KA_SSPS.MinDurationPRE 30000 DINT
 Comm Fail with Secondary Sludge PLC
KA_SSPS.MinDurationACC 727 DINT
 Comm Fail with Secondary Sludge PLC
KA_SSPS.AlarmCount 2 DINT
 Comm Fail with Secondary Sludge PLC
KA_SSPS.InAlarmDate 10272022 DINT
 Comm Fail with Secondary Sludge PLC
KA_SSPS.InAlarmTime 121452 DINT
 Comm Fail with Secondary Sludge PLC
KA_SSPS.RefToNormalDate 10272022 DINT
 Comm Fail with Secondary Sludge PLC
KA_SSPS.RefToNormalTime 141228 DINT
 Comm Fail with Secondary Sludge PLC
KA_SSPS.AlarmCountResetDate 0 DINT
 Comm Fail with Secondary Sludge PLC
KA_SSPS.AlarmCountResetTime 0 DINT
 Comm Fail with Secondary Sludge PLC

LAL1101 ALRM PLC_SH

Sludge Holding Tank 1 Level Alarm Low
 Constant No
 External Access: Read/Write
*LAL1101 - MainProgram/L1101_SHT1_Level - *3(ALRM)*
LAL1101.EnableIn 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low Enable Input - System Defined Parameter
LAL1101.EnableOut 0 BOOL

LAL1101 (Continued)

Sludge Holding Tank 1 Level Alarm Low Enable Output - System Defined Parameter
LAL1101.Latched 1 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.OperReset 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
*LAL1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)*
LAL1101.ProgReset 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.OperDisable 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.OperEnable 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.AlarmCountReset 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low Set to 1 to reset alarm count
LAL1101.InAlarm 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.InAlarm - MainProgram/L1100_PressControl - 0(XIC)
LAL1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)
LAL1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)
LAL1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)
LAL1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)
LAL1101.Disabled 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.MinDurationPRE 30000 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.MinDurationACC 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.AlarmCount 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.InAlarmDate 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.InAlarmTime 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.RetToNormalDate 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.RetToNormalTime 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.AlarmCountResetDate 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.AlarmCountResetTime 0 DINT
 Sludge Holding Tank 1 Level Alarm Low

LAL1102 ALRM PLC_SH

Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
 Constant No
 External Access: Read/Write
*LAL1102 - MainProgram/L1102_SHT1_BlanketLevel - *3(ALRM)*
LAL1102.EnableIn 0 BOOL
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Enable Input - System Defined Parameter
LAL1102.EnableOut 0 BOOL
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Enable Output - System Defined Parameter
LAL1102.Latched 1 BOOL
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.OperReset 0 BOOL
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
*LAL1102.OperReset - MainProgram/L1102_SHT1_BlanketLevel - *4(OTL)*
LAL1102.ProgReset 0 BOOL
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.OperDisable 0 BOOL
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.OperEnable 0 BOOL
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.AlarmCountReset 0 BOOL

LAL1102 (Continued)

Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Set to 1 to reset alarm count
LAL1102.InAlarm 0 BOOL
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.InAlarm - MainProgram/L1100_PressControl - 0(XIC)
LAL1102.Disabled 0 BOOL
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.MinDurationPRE 3000 DINT
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.MinDurationACC 0 DINT
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.AlarmCount 0 DINT
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.InAlarmDate 0 DINT
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.InAlarmTime 0 DINT
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.RetToNormalDate 0 DINT
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.RetToNormalTime 0 DINT
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.AlarmCountResetDate 0 DINT
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low
LAL1102.AlarmCountResetTime 0 DINT
 Sludge Holding Tank 1 Sludge Blanket Level Alarm Low

LL1104

LL PLC_SH

Sludge Pumps LL2
 Constant No
 External Access: Read/Write
*LL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *33(LL)*
LL1104.EnableIn 1 BOOL
 Sludge Pumps LL2 Enable Input - System Defined Parameter
LL1104.EnableOut 1 BOOL
 Sludge Pumps LL2 Enable Output - System Defined Parameter
LL1104.AlternationMode 0 DINT
 Sludge Pumps LL2 Alternation Mode
LL1104.AlternationPRE 2400 DINT
 Sludge Pumps LL2 Alternation Time Preset (0.01 HRS)
LL1104.AlternationACC 0 DINT
 Sludge Pumps LL2 Alternation Time Accumulated (0.01 HRS)
LL1104.NextCall 0 DINT
 Sludge Pumps LL2 (1)Increase Call (0)No Call (-1)Decrease Call
*LL1104.NextCall - MainProgram/L1104_SludgeFeedPump1_VFD - *29(CLR), *30(MOV), *31(MOV), *32(CLR)*
LL1104.NextCallCountDown 0 DINT
 Sludge Pumps LL2 Next Call Count Down (Milliseconds)
LL1104.NextCalled 0 DINT
 Sludge Pumps LL2 (Equipment Number)
LL1104.CalledCount 0 DINT
 Sludge Pumps LL2 Called Count
*LL1104.CalledCount - MainProgram/L1104_SludgeFeedPump1_VFD - *32(CLR), 21(GEQ)*
LL1104.CalledCount - MainProgram/L1204_SludgeFeedPump2_VFD - 21(GEQ)
LL1104.ReadyCount 0 DINT
 Sludge Pumps LL2 Ready Count
LL1104.OnCountTotal 0 DINT
 Sludge Pumps LL2 Total On Count
LL1104.OnCountAuto 0 DINT
 Sludge Pumps LL2 Auto On Count
LL1104.OnCountMax 1 DINT
 Sludge Pumps LL2 Maximum On Count
LL1104.Ready1 0 BOOL
 Sludge Pumps LL2 1 Ready
LL1104.Ready1 - MainProgram/Communications - 19(XIO), 4(XIO)
LL1104.Ready1 - MainProgram/L1100_PressControl - 0(XIO), 1(XIO)

LL1104 (Continued)

<i>LL1104.Ready1 - MainProgram/L1104_SludgeFeedPump1_VFD - *25(OTE)</i>		
LL1104.Ready2	0	BOOL
Sludge Pumps LL2 2 Ready		
<i>LL1104.Ready2 - MainProgram/Communications - 19(XIO), 4(XIO)</i>		
<i>LL1104.Ready2 - MainProgram/L1100_PressControl - 0(XIO), 1(XIO)</i>		
<i>LL1104.Ready2 - MainProgram/L1104_SludgeFeedPump1_VFD - *26(OTE)</i>		
LL1104.Ready3	0	BOOL
Sludge Pumps LL2 3 Ready		
<i>LL1104.Ready3 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready4	0	BOOL
Sludge Pumps LL2 4 Ready		
<i>LL1104.Ready4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready5	0	BOOL
Sludge Pumps LL2 5 Ready		
<i>LL1104.Ready5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready6	0	BOOL
Sludge Pumps LL2 6 Ready		
<i>LL1104.Ready6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.RunHours1	0	DINT
Sludge Pumps LL2 1 Total ETM		
<i>LL1104.RunHours1 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours2	0	DINT
Sludge Pumps LL2 2 Total ETM		
<i>LL1104.RunHours2 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours3	0	DINT
Sludge Pumps LL2 3 Total ETM		
LL1104.RunHours4	0	DINT
Sludge Pumps LL2 4 Total ETM		
LL1104.RunHours5	0	DINT
Sludge Pumps LL2 5 Total ETM		
LL1104.RunHours6	0	DINT
Sludge Pumps LL2 6 Total ETM		
LL1104.Position1SP	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position SP		
LL1104.Position2SP	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position SP		
LL1104.Position3SP	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position SP		
LL1104.Position4SP	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position SP		
LL1104.Position5SP	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position SP		
LL1104.Position6SP	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position SP		
LL1104.Position1	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position		
<i>LL1104.Position1 - MainProgram/L1104_SludgeFeedPump1_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position2	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position		
<i>LL1104.Position2 - MainProgram/L1204_SludgeFeedPump2_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position3	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position		
LL1104.Position4	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position		
LL1104.Position5	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position		
LL1104.Position6	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position		
LL1104.Delay0_1	5000	DINT
Sludge Pumps LL2 Call On 0 to 1 Delay (Milliseconds)		
LL1104.Delay1_2	10000	DINT
Sludge Pumps LL2 Call On 1 to 2 Delay (Milliseconds)		
LL1104.Delay2_3	15000	DINT

LL1104 (Continued)		
Sludge Pumps LL2 Call On 2 to 3 Delay (Milliseconds)		
LL1104.Delay3_4	20000	DINT
Sludge Pumps LL2 Call On 3 to 4 Delay (Milliseconds)		
LL1104.Delay4_5	25000	DINT
Sludge Pumps LL2 Call On 4 to 5 Delay (Milliseconds)		
LL1104.Delay5_6	30000	DINT
Sludge Pumps LL2 Call On 5 to 6 Delay (Milliseconds)		
LL1104.Delay6_5	30000	DINT
Sludge Pumps LL2 Call Off 6 to 5 Delay (Milliseconds)		
LL1104.Delay5_4	25000	DINT
Sludge Pumps LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL1104.Delay4_3	20000	DINT
Sludge Pumps LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL1104.Delay3_2	15000	DINT
Sludge Pumps LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL1104.Delay2_1	10000	DINT
Sludge Pumps LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL1104.Delay1_0	5000	DINT
Sludge Pumps LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL1104.MaxOn	0	BOOL
Sludge Pumps LL2 Maximum Number of Devices are Running		
<i>LL1104.MaxOn - MainProgram/L1104_SludgeFeedPump1_VFD - 30(XIO)</i>		
LL1104.On1	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On1 - MainProgram/L1104_SludgeFeedPump1_VFD - *25(OTE)</i>		
LL1104.On2	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On2 - MainProgram/L1104_SludgeFeedPump1_VFD - *26(OTE)</i>		
LL1104.On3	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On3 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On4	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On5	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On6	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.CountUpOS	0	BOOL
Sludge Pumps LL2		
LL1104.CountDownOS	0	BOOL
Sludge Pumps LL2		
ONS1100		BOOL[32] PLC_SH
Constant	No	
External Access:	Read/Write	
ONS1100[0]	0	BOOL
<i>ONS1100[0] - MainProgram/L1100_PressControl - *5(ONS)</i>		
ONS1100[1]	0	BOOL
<i>ONS1100[1] - MainProgram/L1100_PressControl - *6(ONS)</i>		
OSC2101		OSC PLC_SH
Press 1 Sludge Valve		
Constant	No	
External Access:	Read/Write	
<i>OSC2101 - MainProgram/L2101_Press1_SludgeValve - *14(OSC)</i>		
OSC2101.EnableIn	0	BOOL
Press 1 Sludge Valve Enable Input - System Defined Parameter		
OSC2101.EnableOut	0	BOOL
Press 1 Sludge Valve Enable Output - System Defined Parameter		
OSC2101.HMIAuto	0	BOOL

OSC2101 (Continued)			
Press 1 Sludge Valve HMI Auto			
<i>OSC2101.HMIAuto - MainProgram/L1100_PressControl - 3(XIO)</i>			
OSC2101.AutoOpen	0	BOOL	
Press 1 Sludge Valve Auto Open Command			
<i>OSC2101.AutoOpen - MainProgram/L2101_Press1_SludgeValve - *12(OTE), 13(XIO)</i>			
OSC2101.HMIOpen	0	BOOL	
Press 1 Sludge Valve HMI Manual Open			
OSC2101.HMIStop	0	BOOL	
Press 1 Sludge Valve HMI Manual Stop			
OSC2101.HMIClose	0	BOOL	
Press 1 Sludge Valve HMI Manual Close			
OSC2101.OpenCmd	0	BOOL	
Press 1 Sludge Valve Open Command			
<i>OSC2101.OpenCmd - MainProgram/L2101_Press1_SludgeValve - 4(XIC), 6(XIC)</i>			
OSC2101.AutoClose	1	BOOL	
Press 1 Sludge Valve Auto Close Command			
<i>OSC2101.AutoClose - MainProgram/L2101_Press1_SludgeValve - *13(OTE)</i>			
OSC2101.AutoStop	0	BOOL	
Press 1 Sludge Valve Auto Stop Command			
OSC2101.CloseCmd	0	BOOL	
Press 1 Sludge Valve Close Command			
<i>OSC2101.CloseCmd - MainProgram/L2101_Press1_SludgeValve - 5(XIC), 7(XIC)</i>			
OSC2101.StopCmd	1	BOOL	
Press 1 Sludge Valve Stop Command			
OSC2201		OSC	PLC_SH
Press 2 Sludge Valve			
Constant	No		
External Access:	Read/Write		
<i>OSC2201 - MainProgram/L2201_Press2_SludgeValve - *14(OSC)</i>			
OSC2201.EnableIn	0	BOOL	
Press 2 Sludge Valve Enable Input - System Defined Parameter			
OSC2201.EnableOut	0	BOOL	
Press 2 Sludge Valve Enable Output - System Defined Parameter			
OSC2201.HMIAuto	0	BOOL	
Press 2 Sludge Valve HMI Auto			
<i>OSC2201.HMIAuto - MainProgram/L1100_PressControl - 4(XIO)</i>			
OSC2201.AutoOpen	0	BOOL	
Press 2 Sludge Valve Auto Open Command			
<i>OSC2201.AutoOpen - MainProgram/L2201_Press2_SludgeValve - *12(OTE), 13(XIO)</i>			
OSC2201.HMIOpen	0	BOOL	
Press 2 Sludge Valve HMI Manual Open			
OSC2201.HMIStop	0	BOOL	
Press 2 Sludge Valve HMI Manual Stop			
OSC2201.HMIClose	0	BOOL	
Press 2 Sludge Valve HMI Manual Close			
OSC2201.OpenCmd	0	BOOL	
Press 2 Sludge Valve Open Command			
<i>OSC2201.OpenCmd - MainProgram/L2201_Press2_SludgeValve - 4(XIC), 6(XIC)</i>			
OSC2201.AutoClose	1	BOOL	
Press 2 Sludge Valve Auto Close Command			
<i>OSC2201.AutoClose - MainProgram/L2201_Press2_SludgeValve - *13(OTE)</i>			
OSC2201.AutoStop	0	BOOL	
Press 2 Sludge Valve Auto Stop Command			
OSC2201.CloseCmd	0	BOOL	
Press 2 Sludge Valve Close Command			
<i>OSC2201.CloseCmd - MainProgram/L2201_Press2_SludgeValve - 5(XIC), 7(XIC)</i>			
OSC2201.StopCmd	1	BOOL	
Press 2 Sludge Valve Stop Command			
PRESS1_READY	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		

PRESS1_READY (Continued)			
<i>PRESS1_READY - MainProgram/Communications - *10(OTE)</i>			
<i>PRESS1_READY - MainProgram/L1100_PressControl - 3(XIO)</i>			
PRESS1_SludgePumpRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS1_SludgePumpRunCMD - MainProgram/Communications - *8(OTE), 30(XIC), 32(XIC), 32(XIO)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>			
PRESS2_READY	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_READY - MainProgram/Communications - *25(OTE)</i>			
<i>PRESS2_READY - MainProgram/L1100_PressControl - 4(XIO)</i>			
PRESS2_SludgePumpRunCMD	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>PRESS2_SludgePumpRunCMD - MainProgram/Communications - *23(OTE), 30(XIC), 32(XIC), 32(XIO)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>			
YC1100	0	DINT	PLC_SH
Solids Mode Select (0=SHT1) (1=SHT2) (2=WAS)			
Constant	No		
External Access:	Read/Write		
<i>YC1100 - MainProgram/Communications - 18(EQU), 18(LEQ), 19(EQU), 19(LEQ), 3(EQU), 3(LEQ), 30(EQU), 4(EQU), 4(LEQ)</i>			
<i>YC1100 - MainProgram/L1100_PressControl - 0(NEQ), 1(NEQ), 2(NEQ), 7(EQU)</i>			
YC1100A	0	BOOL	PLC_SH
Sludge Pump Auto Start Cmd			
Constant	No		
External Access:	Read/Write		
<i>YC1100A - MainProgram/L1100_PressControl - *7(OTE)</i>			
<i>YC1100A - MainProgram/L1104_SludgeFeedPump1_VFD - 30(XIC), 31(XIO)</i>			
YI2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI2106 - MainProgram/Communications - 30(XIC)</i>			
<i>YI2106 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>YI2106 - MainProgram/L2106_ScrewPressConveyor1 - *1(OTE), 14(XIC), 5(XIO), 6(XIC)</i>			
YI2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI2206 - MainProgram/Communications - 30(XIC)</i>			
<i>YI2206 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>YI2206 - MainProgram/L2206_ScrewPressConveyor2 - *1(OTE), 14(XIC), 5(XIO), 6(XIC)</i>			
YL406	0	BOOL	PLC_SH
Secondary Sludge Pump 1 Auto Ready			
Constant	No		
External Access:	Read/Write		
<i>YL406 - MainProgram/Communications - *34(OTE), 19(XIO), 4(XIO)</i>			
<i>YL406 - MainProgram/L1100_PressControl - 2(XIO)</i>			
YL409	0	BOOL	PLC_SH

YL409 (Continued)

Secondary Sludge Pump 2 Auto Ready
 Constant No
 External Access: Read/Write
*YL409 - MainProgram/Communications - *35(O TE), 19(XIO), 4(XIO)*
YL409 - MainProgram/L1100_PressControl - 2(XIO)

YL2101 0 BOOL PLC_SH

Press 1 Sludge Valve Ready
 Constant No
 External Access: Read/Write
YL2101 - MainProgram/L1100_PressControl - 3(XIO)
*YL2101 - MainProgram/L2101_Press1_SludgeValve - *10(O TE), 14(XIC)*

YL2106 0 BOOL PLC_SH

Screw Press Conveyor 1 Ready
 Constant No
 External Access: Read/Write
YL2106 - MainProgram/L1100_PressControl - 3(XIO)
*YL2106 - MainProgram/L2106_ScrewPressConveyor1 - *9(O TE), 13(XIC)*

YL2201 0 BOOL PLC_SH

Press 2 Sludge Valve Ready
 Constant No
 External Access: Read/Write
YL2201 - MainProgram/L1100_PressControl - 4(XIO)
*YL2201 - MainProgram/L2201_Press2_SludgeValve - *10(O TE), 14(XIC)*

YL2206 0 BOOL PLC_SH

Screw Press Conveyor 2 Ready
 Constant No
 External Access: Read/Write
YL2206 - MainProgram/L1100_PressControl - 4(XIO)
*YL2206 - MainProgram/L2206_ScrewPressConveyor2 - *9(O TE), 13(XIC)*

YY1100A 6 DINT PLC_SH

Solids From SHT 1 Intermux
 Constant No
 External Access: Read/Write
*YY1100A - MainProgram/L1100_PressControl - *0(CLR), 7(EQU)*

YY1100A.0 0 BOOL

Solids From SHT 1 Intermux
*YY1100A.0 - MainProgram/L1100_PressControl - *0(O TE)*

YY1100A.1 1 BOOL

Solids From SHT 1 Intermux
*YY1100A.1 - MainProgram/L1100_PressControl - *0(O TE)*

YY1100A.2 1 BOOL

Solids From SHT 1 Intermux
*YY1100A.2 - MainProgram/L1100_PressControl - *0(O TE)*

YY1100A.3 0 BOOL

Solids From SHT 1 Intermux
*YY1100A.3 - MainProgram/L1100_PressControl - *0(O TE)*

YY1100A.4 0 BOOL

Solids From SHT 1 Intermux
*YY1100A.4 - MainProgram/L1100_PressControl - *0(O TE)*

YY1100B 7 DINT PLC_SH

Solids From SHT 2 Intermux
 Constant No
 External Access: Read/Write
*YY1100B - MainProgram/L1100_PressControl - *1(CLR), 7(EQU)*

YY1100B.0 1 BOOL

Solids From SHT 2 Intermux
*YY1100B.0 - MainProgram/L1100_PressControl - *1(O TE)*

YY1100B (Continued)			
YY1100B.1	1	BOOL	
Solids From SHT 2 Intermux			
<i>YY1100B.1 - MainProgram/L1100_PressControl - *1(OTE)</i>			
YY1100B.2	1	BOOL	
Solids From SHT 2 Intermux			
<i>YY1100B.2 - MainProgram/L1100_PressControl - *1(OTE)</i>			
YY1100C	7	DINT	PLC_SH
Solids From WAS Intermux			
Constant No			
External Access: Read/Write			
<i>YY1100C - MainProgram/Communications - 30(EQU)</i>			
<i>YY1100C - MainProgram/L1100_PressControl - *2(CLR)</i>			
YY1100C.0	1	BOOL	
Solids From WAS Intermux			
<i>YY1100C.0 - MainProgram/L1100_PressControl - *2(OTE)</i>			
YY1100C.1	1	BOOL	
Solids From WAS Intermux			
<i>YY1100C.1 - MainProgram/L1100_PressControl - *2(OTE)</i>			
YY1100C.2	1	BOOL	
Solids From WAS Intermux			
<i>YY1100C.2 - MainProgram/L1100_PressControl - *2(OTE)</i>			
YY1100C.3	0	BOOL	
Solids From WAS Intermux			
<i>YY1100C.3 - MainProgram/L1100_PressControl - *2(OTE)</i>			
YY1100D	11	DINT	PLC_SH
Press 1 Intermux			
Constant No			
External Access: Read/Write			
<i>YY1100D - MainProgram/Communications - 1(EQU), 2(NEQ), 30(EQU)</i>			
<i>YY1100D - MainProgram/L1100_PressControl - *3(CLR), 5(NEQ), 7(EQU)</i>			
YY1100D.0	1	BOOL	
Press 1 Intermux			
<i>YY1100D.0 - MainProgram/L1100_PressControl - *3(OTE)</i>			
YY1100D.1	1	BOOL	
Press 1 Intermux			
<i>YY1100D.1 - MainProgram/L1100_PressControl - *3(OTE)</i>			
YY1100D.2	0	BOOL	
Press 1 Intermux			
<i>YY1100D.2 - MainProgram/L1100_PressControl - *3(OTE)</i>			
YY1100D.3	1	BOOL	
Press 1 Intermux			
<i>YY1100D.3 - MainProgram/L1100_PressControl - *3(OTE)</i>			
YY1100E	11	DINT	PLC_SH
Press 2 Intermux			
Constant No			
External Access: Read/Write			
<i>YY1100E - MainProgram/Communications - 16(EQU), 17(NEQ), 30(EQU)</i>			
<i>YY1100E - MainProgram/L1100_PressControl - *4(CLR), 6(NEQ), 7(EQU)</i>			
YY1100E.0	1	BOOL	
Press 2 Intermux			
<i>YY1100E.0 - MainProgram/L1100_PressControl - *4(OTE)</i>			
YY1100E.1	1	BOOL	
Press 2 Intermux			
<i>YY1100E.1 - MainProgram/L1100_PressControl - *4(OTE)</i>			
YY1100E.2	0	BOOL	
Press 2 Intermux			
<i>YY1100E.2 - MainProgram/L1100_PressControl - *4(OTE)</i>			
YY1100E.3	1	BOOL	
Press 2 Intermux			
<i>YY1100E.3 - MainProgram/L1100_PressControl - *4(OTE)</i>			

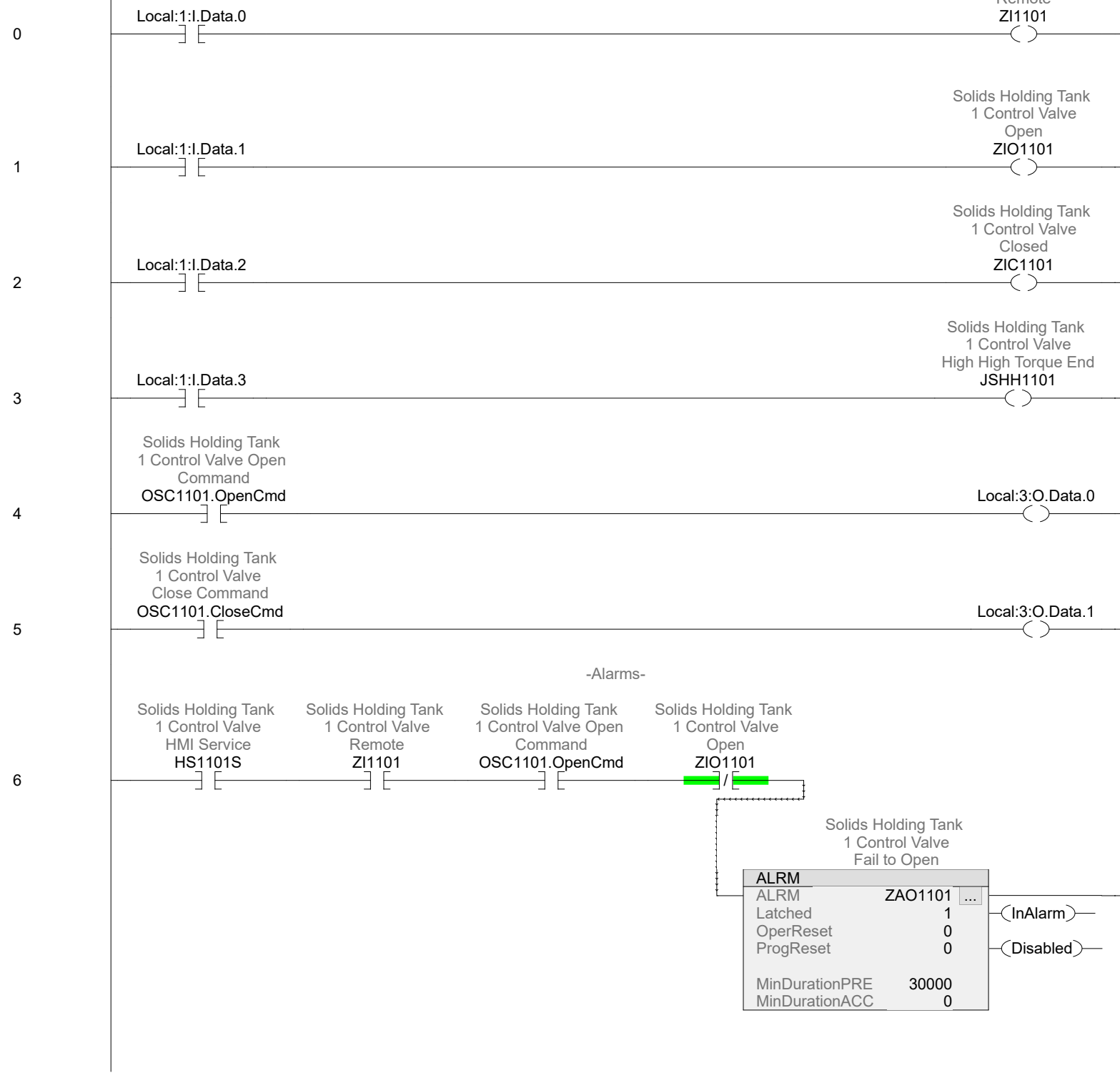
ZIO1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve Open			
Constant	No		
External Access:	Read/Write		
<i>ZIO1101 - MainProgram/L1100_PressControl - 0(XIO)</i>			
<i>ZIO1101 - MainProgram/L1101_SHT1_ControlValve - *1(OTE), 6(XIO)</i>			
ZIO1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve Open			
Constant	No		
External Access:	Read/Write		
<i>ZIO1201 - MainProgram/L1100_PressControl - 1(XIO)</i>			
<i>ZIO1201 - MainProgram/L1201_SHT2_ControlValve - *1(OTE), 6(XIO)</i>			
ZIO2101	0	BOOL	PLC_SH
Press 1 Sludge Valve Open			
Constant	No		
External Access:	Read/Write		
<i>ZIO2101 - MainProgram/Communications - 30(XIC)</i>			
<i>ZIO2101 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>ZIO2101 - MainProgram/L2101_Press1_SludgeValve - *1(OTE), 6(XIO)</i>			
ZIO2201	0	BOOL	PLC_SH
Press 2 Sludge Valve Open			
Constant	No		
External Access:	Read/Write		
<i>ZIO2201 - MainProgram/Communications - 30(XIC)</i>			
<i>ZIO2201 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>ZIO2201 - MainProgram/L2201_Press2_SludgeValve - *1(OTE), 6(XIO)</i>			

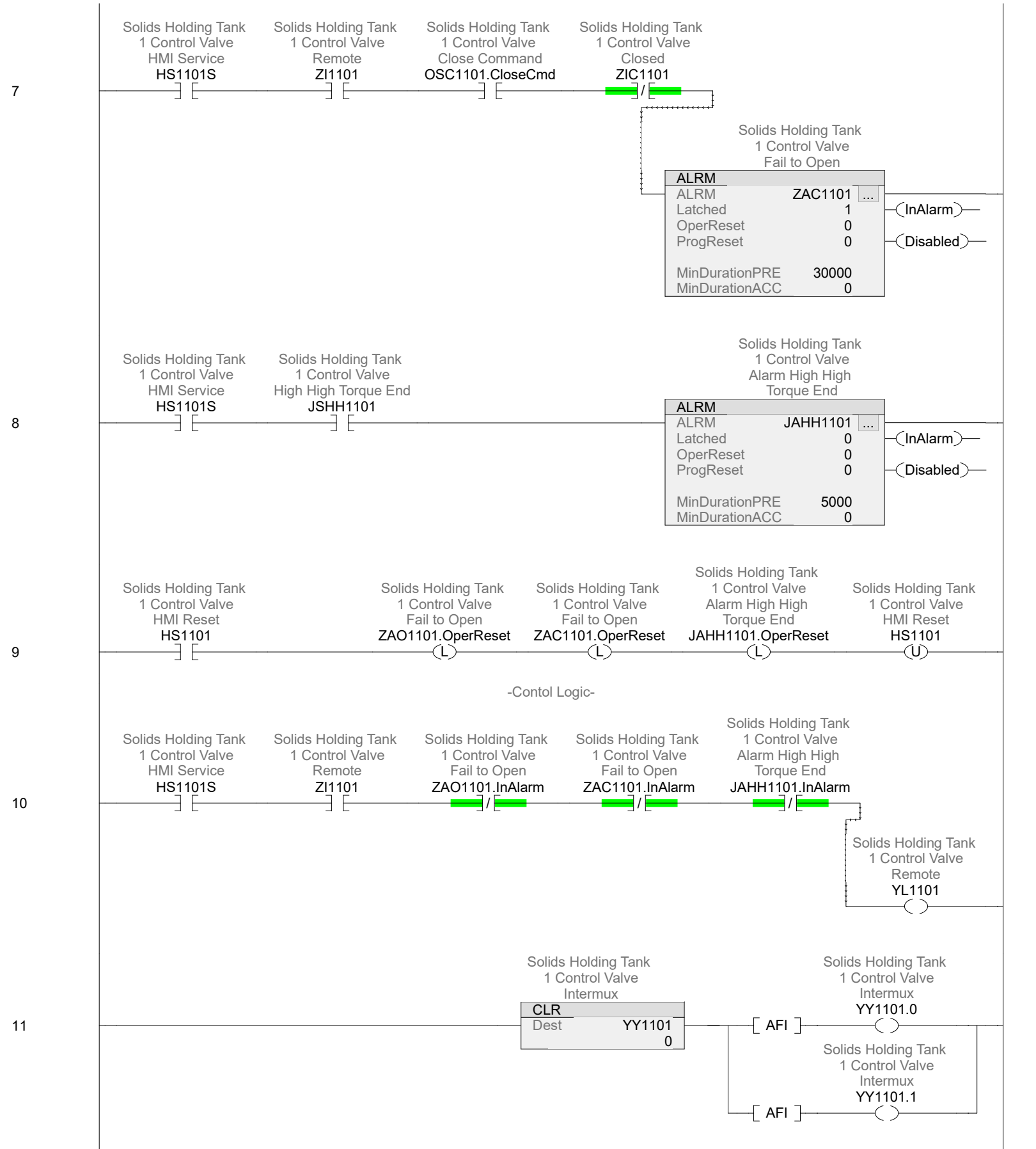
General

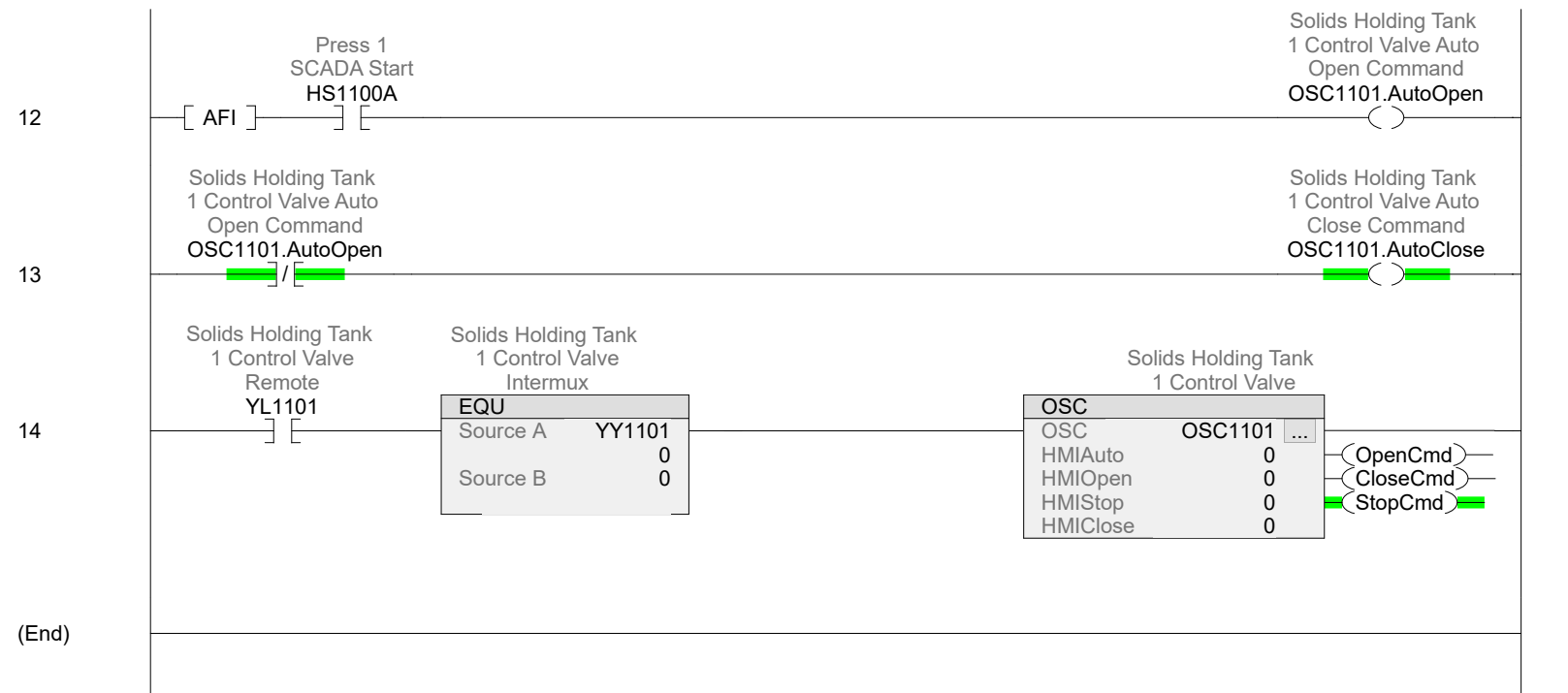
Type:	 Ladder Diagram	Number of Rungs:	8
In Program:	 MainProgram		

Solids Holding Tank 1 Control Valve (V-1101)

-Discrete I/O Mapping-







Name	Value	Data Type	Scope
HS1100A Press 1 SCADA Start Constant External Access: <i>HS1100A - MainProgram/Communications - 1(XIC), 2(XIO)</i> <i>HS1100A - MainProgram/L1100_PressControl - *5(OTU), 5(XIC)</i> <i>HS1100A - MainProgram/L1101_SHT1_ControlValve - 12(XIC)</i>	0 No Read/Write	BOOL	PLC_SH
HS1101 Solids Holding Tank 1 Control Valve HMI Reset Constant External Access: <i>HS1101 - MainProgram/L1101_SHT1_ControlValve - *9(OTU), 9(XIC)</i>	0 No Read/Write	BOOL	PLC_SH
HS1101S Solids Holding Tank 1 Control Valve HMI Service Constant External Access: <i>HS1101S - MainProgram/L1101_SHT1_ControlValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>	0 No Read/Write	BOOL	PLC_SH
JAHH1101 Solids Holding Tank 1 Control Valve Alarm High High Torque End Constant External Access: <i>JAHH1101 - MainProgram/L1101_SHT1_ControlValve - *8(ALRM)</i>	No Read/Write	ALRM	PLC_SH
JAHH1101.EnableIn Solids Holding Tank 1 Control Valve Alarm High High Torque End Enable Input - System Defined Parameter	0	BOOL	
JAHH1101.EnableOut Solids Holding Tank 1 Control Valve Alarm High High Torque End Enable Output - System Defined Parameter	0	BOOL	
JAHH1101.Latched Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	BOOL	
JAHH1101.OperReset Solids Holding Tank 1 Control Valve Alarm High High Torque End <i>JAHH1101.OperReset - MainProgram/L1101_SHT1_ControlValve - *9(OTL)</i>	0	BOOL	
JAHH1101.ProgReset Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	BOOL	
JAHH1101.OperDisable Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	BOOL	
JAHH1101.OperEnable Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	BOOL	
JAHH1101.AlarmCountReset Solids Holding Tank 1 Control Valve Alarm High High Torque End Set to 1 to reset alarm count	0	BOOL	
JAHH1101.InAlarm Solids Holding Tank 1 Control Valve Alarm High High Torque End <i>JAHH1101.InAlarm - MainProgram/L1101_SHT1_ControlValve - 10(XIO)</i>	0	BOOL	
JAHH1101.Disabled Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	BOOL	
JAHH1101.MinDurationPRE Solids Holding Tank 1 Control Valve Alarm High High Torque End	5000	DINT	
JAHH1101.MinDurationACC Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	DINT	
JAHH1101.AlarmCount Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	DINT	
JAHH1101.InAlarmDate Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	DINT	
JAHH1101.InAlarmTime Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	DINT	
JAHH1101.RetToNormalDate Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	DINT	
JAHH1101.RetToNormalTime Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	DINT	
JAHH1101.AlarmCountResetDate Solids Holding Tank 1 Control Valve Alarm High High Torque End	0	DINT	

JAHH1101 (Continued)

JAHH1101.AlarmCountResetTime 0 DINT
 Solids Holding Tank 1 Control Valve Alarm High High Torque End

JSHH1101 0 BOOL PLC_SH
 Solids Holding Tank 1 Control Valve High High Torque End
 Constant No
 External Access: Read/Write
*JSHH1101 - MainProgram/L1101_SHT1_ControlValve - *3(OTE), 8(XIC)*

Local:1:I AB:1769_DI16:I:0 PLC_SH

Constant No
 External Access: Read/Write

Local:1:I.Data.0 0 BOOL
Local:1:I.Data.0 - MainProgram/L1101_SHT1_ControlValve - 0(XIC)

Local:1:I.Data.1 0 BOOL
Local:1:I.Data.1 - MainProgram/L1101_SHT1_ControlValve - 1(XIC)

Local:1:I.Data.2 0 BOOL
Local:1:I.Data.2 - MainProgram/L1101_SHT1_ControlValve - 2(XIC)

Local:1:I.Data.3 0 BOOL
Local:1:I.Data.3 - MainProgram/L1101_SHT1_ControlValve - 3(XIC)

Local:1:I.Data.4 0 BOOL
Local:1:I.Data.4 - MainProgram/L1201_SHT2_ControlValve - 0(XIC)

Local:1:I.Data.5 0 BOOL
Local:1:I.Data.5 - MainProgram/L1201_SHT2_ControlValve - 1(XIC)

Local:1:I.Data.6 0 BOOL
Local:1:I.Data.6 - MainProgram/L1201_SHT2_ControlValve - 2(XIC)

Local:1:I.Data.7 0 BOOL
Local:1:I.Data.7 - MainProgram/L1201_SHT2_ControlValve - 3(XIC)

Local:1:I.Data.8 0 BOOL
Local:1:I.Data.8 - MainProgram/L2101_Press1_SludgeValve - 0(XIC)

Local:1:I.Data.9 0 BOOL
Local:1:I.Data.9 - MainProgram/L2101_Press1_SludgeValve - 1(XIC)

Local:1:I.Data.10 0 BOOL
Local:1:I.Data.10 - MainProgram/L2101_Press1_SludgeValve - 2(XIC)

Local:1:I.Data.11 0 BOOL
Local:1:I.Data.11 - MainProgram/L2101_Press1_SludgeValve - 3(XIC)

Local:1:I.Data.12 0 BOOL
Local:1:I.Data.12 - MainProgram/L2201_Press2_SludgeValve - 0(XIC)

Local:1:I.Data.13 0 BOOL
Local:1:I.Data.13 - MainProgram/L2201_Press2_SludgeValve - 1(XIC)

Local:1:I.Data.14 0 BOOL
Local:1:I.Data.14 - MainProgram/L2201_Press2_SludgeValve - 2(XIC)

Local:1:I.Data.15 0 BOOL
Local:1:I.Data.15 - MainProgram/L2201_Press2_SludgeValve - 3(XIC)

Local:3:O AB:1769_DO8:O:0 PLC_SH

Constant No
 External Access: Read/Write

Local:3:O.Data.0 0 BOOL
*Local:3:O.Data.0 - MainProgram/L1101_SHT1_ControlValve - *4(OTE)*

Local:3:O.Data.1 0 BOOL
*Local:3:O.Data.1 - MainProgram/L1101_SHT1_ControlValve - *5(OTE)*

Local:3:O.Data.2 0 BOOL
*Local:3:O.Data.2 - MainProgram/L1201_SHT2_ControlValve - *4(OTE)*

Local:3:O.Data.3 0 BOOL
*Local:3:O.Data.3 - MainProgram/L1201_SHT2_ControlValve - *5(OTE)*

Local:3:O.Data.4 0 BOOL
*Local:3:O.Data.4 - MainProgram/L2101_Press1_SludgeValve - *4(OTE)*

Local:3:O.Data.5 0 BOOL
*Local:3:O.Data.5 - MainProgram/L2101_Press1_SludgeValve - *5(OTE)*
*Local:3:O.Data.5 - MainProgram/L2201_Press2_SludgeValve - *4(OTE)*

Local:3:O.Data.6 0 BOOL
*Local:3:O.Data.6 - MainProgram/L2201_Press2_SludgeValve - *5(OTE)*

OSC1101		OSC	PLC_SH
Solids Holding Tank 1 Control Valve			
Constant	No		
External Access:	Read/Write		
<i>OSC1101 - MainProgram/L1101_SHT1_ControlValve - *14(OSC)</i>			
OSC1101.EnableIn	0	BOOL	
Solids Holding Tank 1 Control Valve Enable Input - System Defined Parameter			
OSC1101.EnableOut	0	BOOL	
Solids Holding Tank 1 Control Valve Enable Output - System Defined Parameter			
OSC1101.HMIAuto	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Auto			
OSC1101.AutoOpen	0	BOOL	
Solids Holding Tank 1 Control Valve Auto Open Command			
<i>OSC1101.AutoOpen - MainProgram/L1101_SHT1_ControlValve - *12(OTE), 13(XIO)</i>			
OSC1101.HMIOpen	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Manual Open			
OSC1101.HMIStop	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Manual Stop			
OSC1101.HMIClose	0	BOOL	
Solids Holding Tank 1 Control Valve HMI Manual Close			
OSC1101.OpenCmd	0	BOOL	
Solids Holding Tank 1 Control Valve Open Command			
<i>OSC1101.OpenCmd - MainProgram/L1101_SHT1_ControlValve - 4(XIC), 6(XIC)</i>			
OSC1101.AutoClose	1	BOOL	
Solids Holding Tank 1 Control Valve Auto Close Command			
<i>OSC1101.AutoClose - MainProgram/L1101_SHT1_ControlValve - *13(OTE)</i>			
OSC1101.AutoStop	0	BOOL	
Solids Holding Tank 1 Control Valve Auto Stop Command			
OSC1101.CloseCmd	0	BOOL	
Solids Holding Tank 1 Control Valve Close Command			
<i>OSC1101.CloseCmd - MainProgram/L1101_SHT1_ControlValve - 5(XIC), 7(XIC)</i>			
OSC1101.StopCmd	1	BOOL	
Solids Holding Tank 1 Control Valve Stop Command			
YL1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>YL1101 - MainProgram/L1101_SHT1_ControlValve - *10(OTE), 14(XIC)</i>			
YY1101	0	DINT	PLC_SH
Solids Holding Tank 1 Control Valve Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY1101 - MainProgram/L1101_SHT1_ControlValve - *11(CLR), 14(EQU)</i>			
YY1101.0	0	BOOL	
Solids Holding Tank 1 Control Valve Intermux			
<i>YY1101.0 - MainProgram/L1101_SHT1_ControlValve - *11(OTE)</i>			
YY1101.1	0	BOOL	
Solids Holding Tank 1 Control Valve Intermux			
<i>YY1101.1 - MainProgram/L1101_SHT1_ControlValve - *11(OTE)</i>			
ZAC1101		ALRM	PLC_SH
Solids Holding Tank 1 Control Valve Fail to Open			
Constant	No		
External Access:	Read/Write		
<i>ZAC1101 - MainProgram/L1101_SHT1_ControlValve - *7(ALRM)</i>			
ZAC1101.EnableIn	0	BOOL	
Solids Holding Tank 1 Control Valve Fail to Open Enable Input - System Defined Parameter			
ZAC1101.EnableOut	0	BOOL	
Solids Holding Tank 1 Control Valve Fail to Open Enable Output - System Defined Parameter			
ZAC1101.Latched	1	BOOL	
Solids Holding Tank 1 Control Valve Fail to Open			
ZAC1101.OperReset	0	BOOL	

ZAC1101 (Continued)

Solids Holding Tank 1 Control Valve Fail to Open
*ZAC1101.OperReset - MainProgram/L1101_SHT1_ControlValve - *9(OTL)*

ZAC1101.ProgReset 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.OperDisable 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.OperEnable 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.AlarmCountReset 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open Set to 1 to reset alarm count

ZAC1101.InAlarm 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open
ZAC1101.InAlarm - MainProgram/L1101_SHT1_ControlValve - 10(XIO)

ZAC1101.Disabled 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.MinDurationPRE 30000 DINT

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.MinDurationACC 0 DINT

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.AlarmCount 0 DINT

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.InAlarmDate 0 DINT

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.InAlarmTime 0 DINT

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.RetToNormalDate 0 DINT

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.RetToNormalTime 0 DINT

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.AlarmCountResetDate 0 DINT

Solids Holding Tank 1 Control Valve Fail to Open

ZAC1101.AlarmCountResetTime 0 DINT

Solids Holding Tank 1 Control Valve Fail to Open

ZAO1101 ALRM PLC_SH

Solids Holding Tank 1 Control Valve Fail to Open

Constant No

External Access: Read/Write

*ZAO1101 - MainProgram/L1101_SHT1_ControlValve - *6(ALRM)*

ZAO1101.EnableIn 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open Enable Input - System Defined Parameter

ZAO1101.EnableOut 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open Enable Output - System Defined Parameter

ZAO1101.Latched 1 BOOL

Solids Holding Tank 1 Control Valve Fail to Open

ZAO1101.OperReset 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open
*ZAO1101.OperReset - MainProgram/L1101_SHT1_ControlValve - *9(OTL)*

ZAO1101.ProgReset 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open

ZAO1101.OperDisable 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open

ZAO1101.OperEnable 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open

ZAO1101.AlarmCountReset 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open Set to 1 to reset alarm count

ZAO1101.InAlarm 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open
ZAO1101.InAlarm - MainProgram/L1101_SHT1_ControlValve - 10(XIO)

ZAO1101.Disabled 0 BOOL

Solids Holding Tank 1 Control Valve Fail to Open

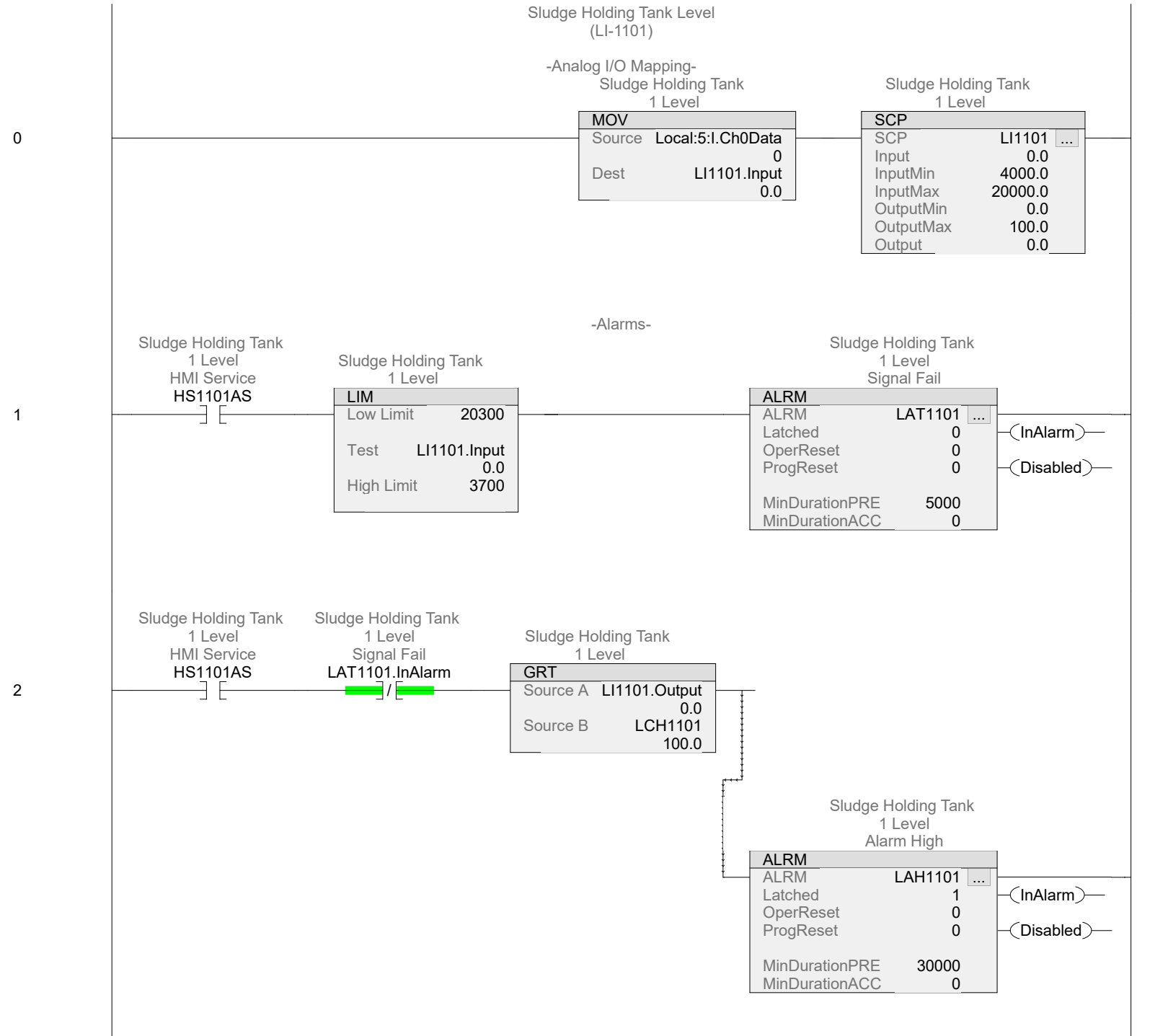
ZAO1101.MinDurationPRE 30000 DINT

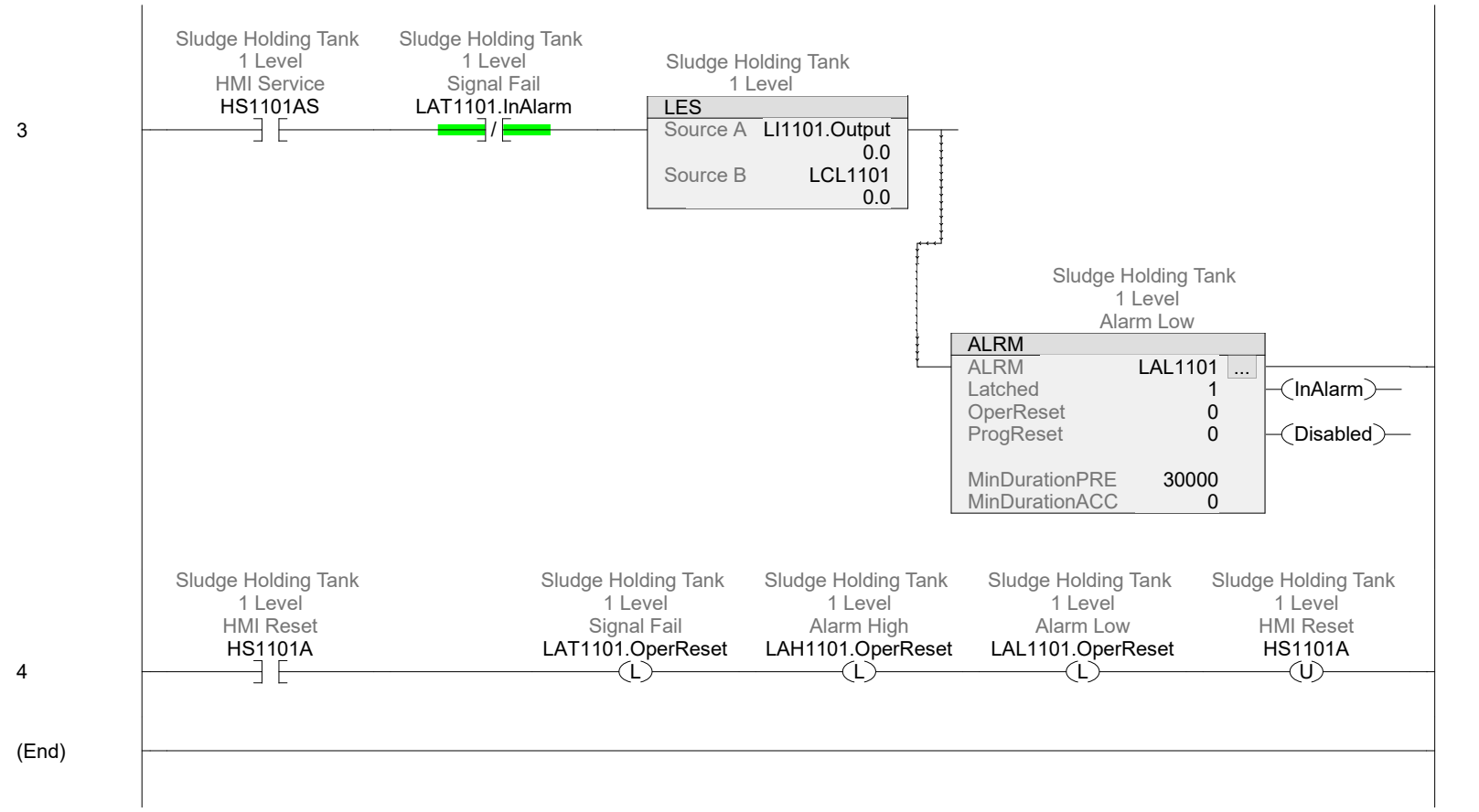
Solids Holding Tank 1 Control Valve Fail to Open

ZAO1101 (Continued)			
ZAO1101.MinDurationACC	0	DINT	
Solids Holding Tank 1 Control Valve Fail to Open			
ZAO1101.AlarmCount	0	DINT	
Solids Holding Tank 1 Control Valve Fail to Open			
ZAO1101.InAlarmDate	0	DINT	
Solids Holding Tank 1 Control Valve Fail to Open			
ZAO1101.InAlarmTime	0	DINT	
Solids Holding Tank 1 Control Valve Fail to Open			
ZAO1101.RetToNormalDate	0	DINT	
Solids Holding Tank 1 Control Valve Fail to Open			
ZAO1101.RetToNormalTime	0	DINT	
Solids Holding Tank 1 Control Valve Fail to Open			
ZAO1101.AlarmCountResetDate	0	DINT	
Solids Holding Tank 1 Control Valve Fail to Open			
ZAO1101.AlarmCountResetTime	0	DINT	
Solids Holding Tank 1 Control Valve Fail to Open			
ZI1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1101 - MainProgram/L1101_SHT1_ControlValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)</i>			
ZIC1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve Closed			
Constant	No		
External Access:	Read/Write		
<i>ZIC1101 - MainProgram/L1101_SHT1_ControlValve - *2(OTE), 7(XIO)</i>			
ZIO1101	0	BOOL	PLC_SH
Solids Holding Tank 1 Control Valve Open			
Constant	No		
External Access:	Read/Write		
<i>ZIO1101 - MainProgram/L1100_PressControl - 0(XIO)</i>			
<i>ZIO1101 - MainProgram/L1101_SHT1_ControlValve - *1(OTE), 6(XIO)</i>			

General

Type:	 Ladder Diagram	Number of Rungs:	15
In Program:	 MainProgram		





Name	Value	Data Type	Scope
HS1101A	0	BOOL	PLC_SH
Sludge Holding Tank 1 Level HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1101A - MainProgram/L1101_SHT1_Level - *4(OTU), 4(XIC)</i>			
HS1101AS	0	BOOL	PLC_SH
Sludge Holding Tank 1 Level HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1101AS - MainProgram/L1101_SHT1_Level - 1(XIC), 2(XIC), 3(XIC)</i>			
LAH1101		ALRM	PLC_SH
Sludge Holding Tank 1 Level Alarm High			
Constant	No		
External Access:	Read/Write		
<i>LAH1101 - MainProgram/L1101_SHT1_Level - *2(ALRM)</i>			
LAH1101.EnableIn	0	BOOL	
Sludge Holding Tank 1 Level Alarm High Enable Input - System Defined Parameter			
LAH1101.EnableOut	0	BOOL	
Sludge Holding Tank 1 Level Alarm High Enable Output - System Defined Parameter			
LAH1101.Latched	1	BOOL	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.OperReset	0	BOOL	
Sludge Holding Tank 1 Level Alarm High			
<i>LAH1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>			
LAH1101.ProgReset	0	BOOL	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.OperDisable	0	BOOL	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.OperEnable	0	BOOL	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.AlarmCountReset	0	BOOL	
Sludge Holding Tank 1 Level Alarm High Set to 1 to reset alarm count			
LAH1101.InAlarm	0	BOOL	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.Disabled	0	BOOL	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.MinDurationPRE	30000	DINT	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.MinDurationACC	0	DINT	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.AlarmCount	0	DINT	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.InAlarmDate	0	DINT	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.InAlarmTime	0	DINT	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.RetToNormalDate	0	DINT	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.RetToNormalTime	0	DINT	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.AlarmCountResetDate	0	DINT	
Sludge Holding Tank 1 Level Alarm High			
LAH1101.AlarmCountResetTime	0	DINT	
Sludge Holding Tank 1 Level Alarm High			
LAL1101		ALRM	PLC_SH
Sludge Holding Tank 1 Level Alarm Low			
Constant	No		
External Access:	Read/Write		
<i>LAL1101 - MainProgram/L1101_SHT1_Level - *3(ALRM)</i>			
LAL1101.EnableIn	0	BOOL	

LAL1101 (Continued)

Sludge Holding Tank 1 Level Alarm Low Enable Input - System Defined Parameter
LAL1101.EnableOut 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low Enable Output - System Defined Parameter
LAL1101.Latched 1 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.OperReset 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
*LAL1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)*
LAL1101.ProgReset 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.OperDisable 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.OperEnable 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.AlarmCountReset 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low Set to 1 to reset alarm count
LAL1101.InAlarm 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.InAlarm - MainProgram/L1100_PressControl - 0(XIC)
LAL1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)
LAL1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)
LAL1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)
LAL1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)
LAL1101.Disabled 0 BOOL
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.MinDurationPRE 30000 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.MinDurationACC 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.AlarmCount 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.InAlarmDate 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.InAlarmTime 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.RetToNormalDate 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.RetToNormalTime 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.AlarmCountResetDate 0 DINT
 Sludge Holding Tank 1 Level Alarm Low
LAL1101.AlarmCountResetTime 0 DINT
 Sludge Holding Tank 1 Level Alarm Low

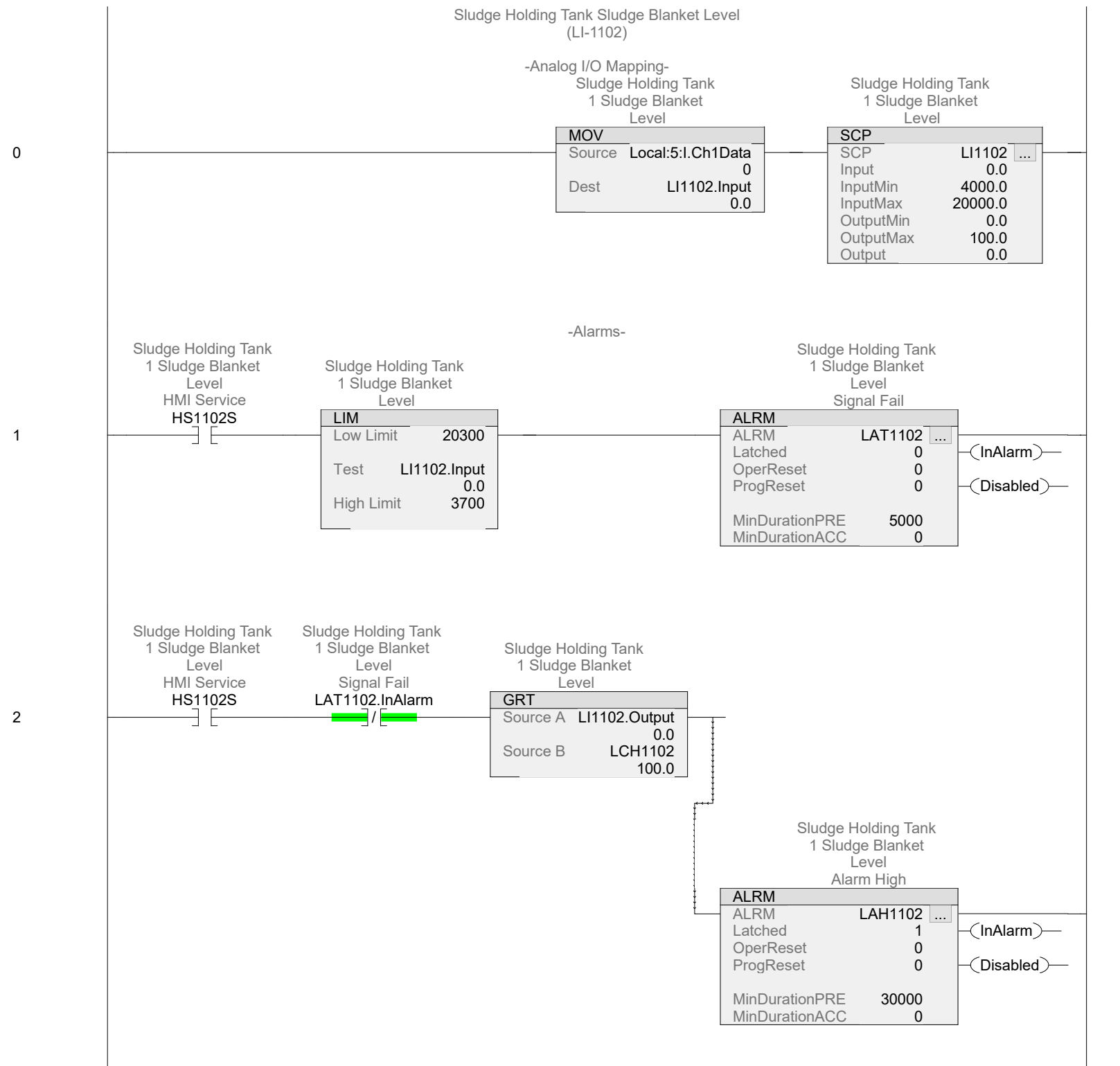
LAT1101 ALRM PLC_SH
 Sludge Holding Tank 1 Level Signal Fail
 Constant No
 External Access: Read/Write
*LAT1101 - MainProgram/L1101_SHT1_Level - *1(ALRM)*
LAT1101.EnableIn 0 BOOL
 Sludge Holding Tank 1 Level Signal Fail Enable Input - System Defined Parameter
LAT1101.EnableOut 0 BOOL
 Sludge Holding Tank 1 Level Signal Fail Enable Output - System Defined Parameter
LAT1101.Latched 0 BOOL
 Sludge Holding Tank 1 Level Signal Fail
LAT1101.OperReset 0 BOOL
 Sludge Holding Tank 1 Level Signal Fail
*LAT1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)*
LAT1101.ProgReset 0 BOOL
 Sludge Holding Tank 1 Level Signal Fail
LAT1101.OperDisable 0 BOOL
 Sludge Holding Tank 1 Level Signal Fail
LAT1101.OperEnable 0 BOOL

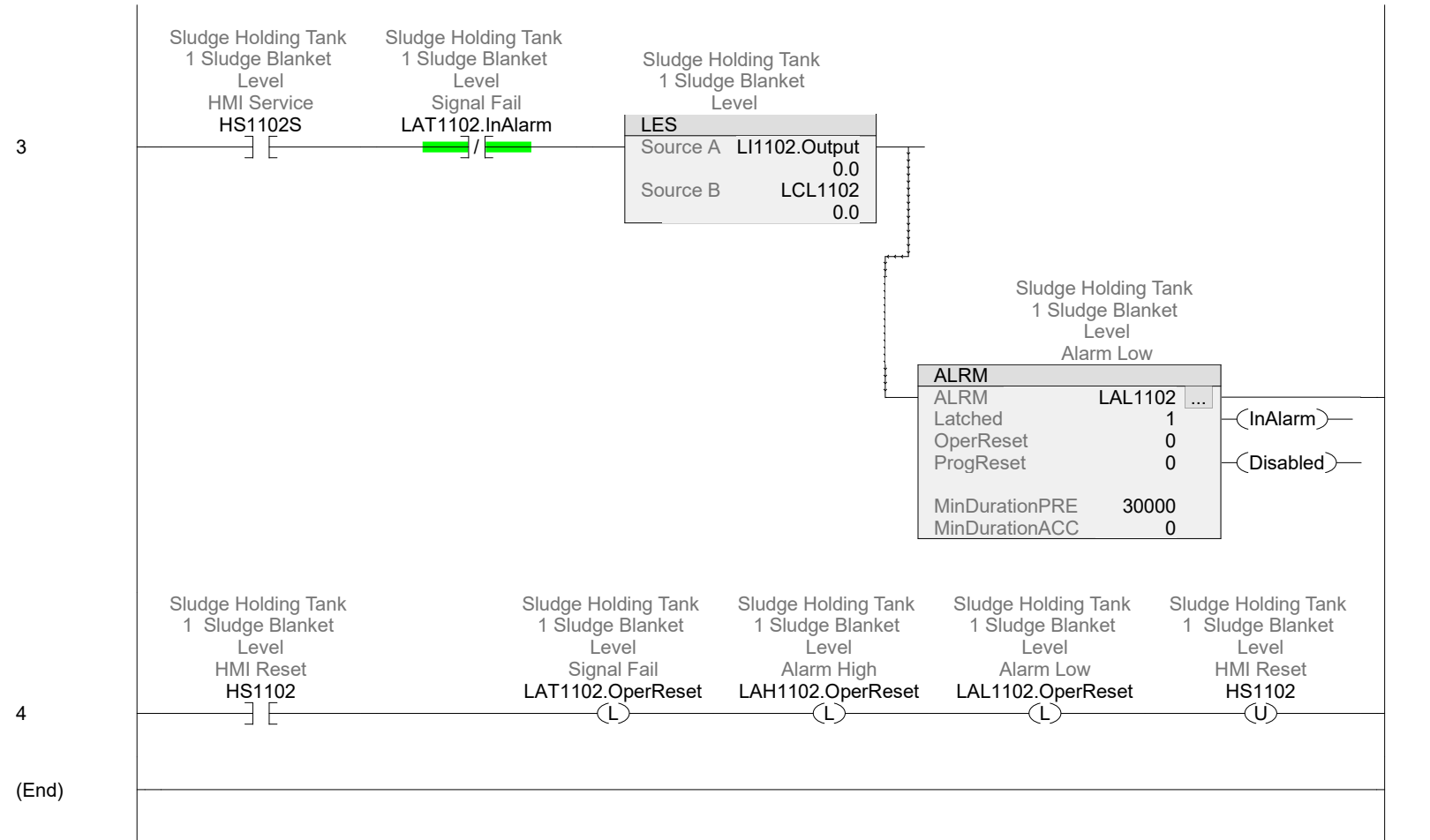
LAT1101 (Continued)			
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.AlarmCountReset	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail Set to 1 to reset alarm count			
LAT1101.InAlarm	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail			
<i>LAT1101.InAlarm - MainProgram/L1101_SHT1_Level - 2(XIO), 3(XIO)</i>			
<i>LAT1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>			
<i>LAT1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>			
<i>LAT1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>			
<i>LAT1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>			
LAT1101.Disabled	0	BOOL	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.MinDurationPRE	5000	DINT	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.MinDurationACC	0	DINT	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.AlarmCount	0	DINT	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.InAlarmDate	0	DINT	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.InAlarmTime	0	DINT	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.RefToNormalDate	0	DINT	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.RefToNormalTime	0	DINT	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.AlarmCountResetDate	0	DINT	
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.AlarmCountResetTime	0	DINT	
Sludge Holding Tank 1 Level Signal Fail			
LCH1101	100.0	REAL	PLC_SH
Sludge Holding Tank 1 Level Alarm High SP			
Constant	No		
External Access:	Read/Write		
<i>LCH1101 - MainProgram/L1101_SHT1_Level - 2(GRT)</i>			
LCL1101	0.0	REAL	PLC_SH
Sludge Holding Tank 1 Level Alarm Low SP			
Constant	No		
External Access:	Read/Write		
<i>LCL1101 - MainProgram/L1101_SHT1_Level - 3(LES)</i>			
LI1101		SCP	PLC_SH
Sludge Holding Tank 1 Level			
Constant	No		
External Access:	Read/Write		
<i>LI1101 - MainProgram/L1101_SHT1_Level - *0(SCP)</i>			
LI1101.EnableIn	1	BOOL	
Sludge Holding Tank 1 Level Enable Input - System Defined Parameter			
LI1101.EnableOut	1	BOOL	
Sludge Holding Tank 1 Level Enable Output - System Defined Parameter			
LI1101.Input	0.0	REAL	
Sludge Holding Tank 1 Level			
<i>LI1101.Input - MainProgram/L1101_SHT1_Level - *0(MOV), 1(LIM)</i>			
LI1101.InputMin	4000.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.InputMax	20000.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.OutputMin	0.0	REAL	
Sludge Holding Tank 1 Level			
LI1101.OutputMax	100.0	REAL	
Sludge Holding Tank 1 Level			

LI1101 (Continued)			
LI1101.Output	0.0	REAL	
Sludge Holding Tank 1 Level			
<i>LI1101.Output - MainProgram/L1101_SHT1_Level - 2(GRT), 3(LES)</i>			
LI1101.ClampMin	1	BOOL	
Sludge Holding Tank 1 Level			
LI1101.ClampMax	1	BOOL	
Sludge Holding Tank 1 Level			
Local:5:I		AB:1769_IF8:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:5:I.Ch0Data	0	INT	
<i>Local:5:I.Ch0Data - MainProgram/L1101_SHT1_Level - 0(MOV)</i>			
Local:5:I.Ch1Data	0	INT	
<i>Local:5:I.Ch1Data - MainProgram/L1102_SHT1_BlanketLevel - 0(MOV)</i>			
Local:5:I.Ch2Data	0	INT	
<i>Local:5:I.Ch2Data - MainProgram/L3103_AerBlower_Pressure - 0(MOV)</i>			

General

Type:	 Ladder Diagram	Number of Rungs:	5
In Program:	 MainProgram		





Name	Value	Data Type	Scope
HS1102	0	BOOL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1102 - MainProgram/L1102_SHT1_BlanketLevel - *4(OTU), 4(XIC)</i>			
HS1102S	0	BOOL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1102S - MainProgram/L1102_SHT1_BlanketLevel - 1(XIC), 2(XIC), 3(XIC)</i>			
LAH1102		ALRM	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
Constant	No		
External Access:	Read/Write		
<i>LAH1102 - MainProgram/L1102_SHT1_BlanketLevel - *2(ALRM)</i>			
LAH1102.EnableIn	0	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High Enable Input - System Defined Parameter			
LAH1102.EnableOut	0	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High Enable Output - System Defined Parameter			
LAH1102.Latched	1	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.OperReset	0	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
<i>LAH1102.OperReset - MainProgram/L1102_SHT1_BlanketLevel - *4(OTL)</i>			
LAH1102.ProgReset	0	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.OperDisable	0	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.OperEnable	0	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.AlarmCountReset	0	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High Set to 1 to reset alarm count			
LAH1102.InAlarm	0	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.Disabled	0	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.MinDurationPRE	30000	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.MinDurationACC	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.AlarmCount	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.InAlarmDate	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.InAlarmTime	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.RetToNormalDate	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.RetToNormalTime	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.AlarmCountResetDate	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAH1102.AlarmCountResetTime	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Alarm High			
LAL1102		ALRM	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low			
Constant	No		
External Access:	Read/Write		
<i>LAL1102 - MainProgram/L1102_SHT1_BlanketLevel - *3(ALRM)</i>			
LAL1102.EnableIn	0	BOOL	

LAL1102 (Continued)

Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Enable Input - System Defined Parameter		
LAL1102.EnableOut	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Enable Output - System Defined Parameter		
LAL1102.Latched	1	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.OperReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
<i>LAL1102.OperReset - MainProgram/L1102_SHT1_BlanketLevel - *4(OTL)</i>		
LAL1102.ProgReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.OperDisable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.OperEnable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low Set to 1 to reset alarm count		
LAL1102.InAlarm	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
<i>LAL1102.InAlarm - MainProgram/L1100_PressControl - 0(XIC)</i>		
LAL1102.Disabled	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.MinDurationACC	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCount	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.InAlarmDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.InAlarmTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		
LAL1102.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low		

LAT1102 ALRM PLC_SH

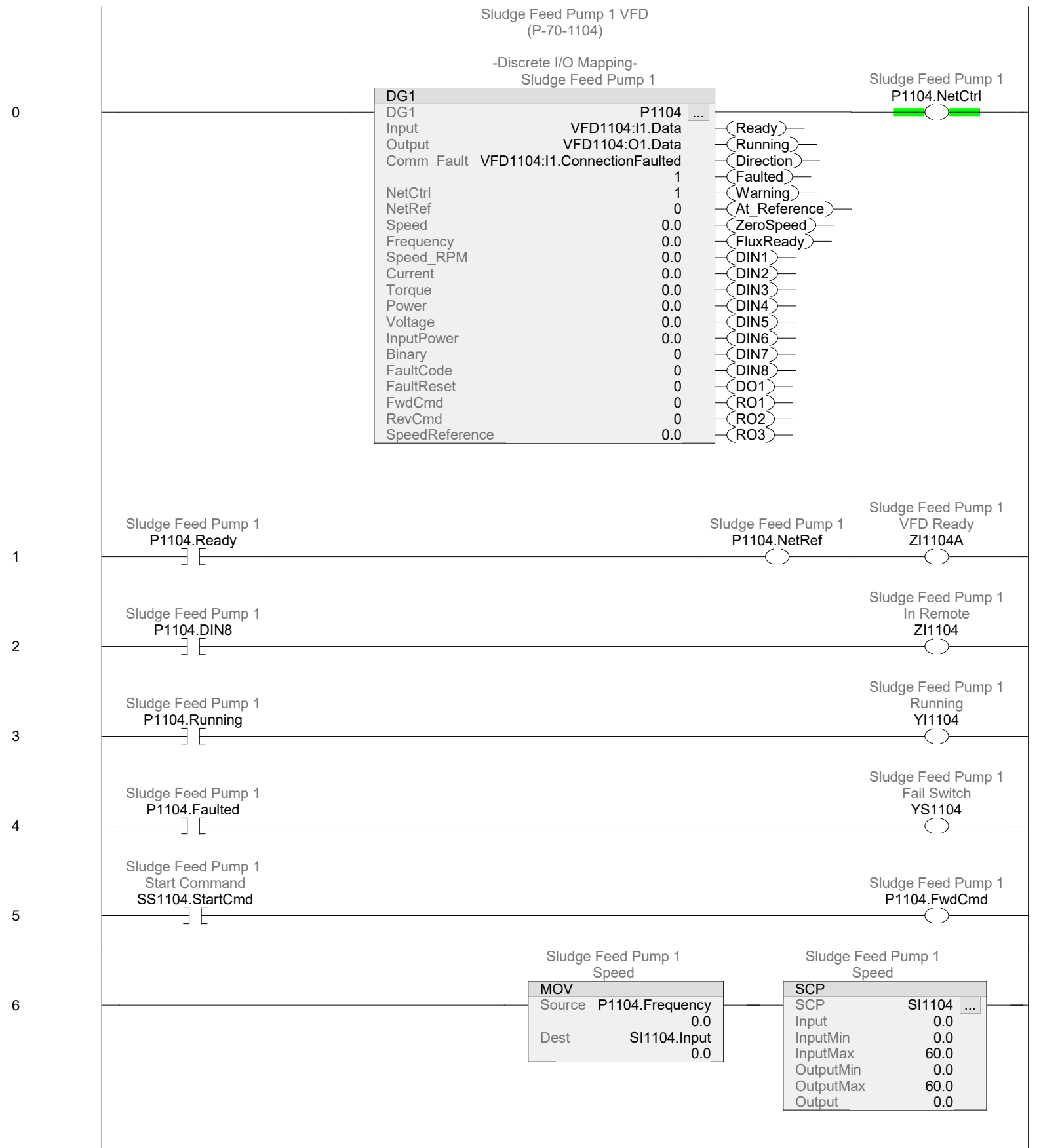
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
Constant	No	
External Access:	Read/Write	
<i>LAT1102 - MainProgram/L1102_SHT1_BlanketLevel - *1(ALRM)</i>		
LAT1102.EnableIn	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail Enable Input - System Defined Parameter		
LAT1102.EnableOut	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail Enable Output - System Defined Parameter		
LAT1102.Latched	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.OperReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
<i>LAT1102.OperReset - MainProgram/L1102_SHT1_BlanketLevel - *4(OTL)</i>		
LAT1102.ProgReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.OperDisable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.OperEnable	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail		
LAT1102.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail Set to 1 to reset alarm count		
LAT1102.InAlarm	0	BOOL

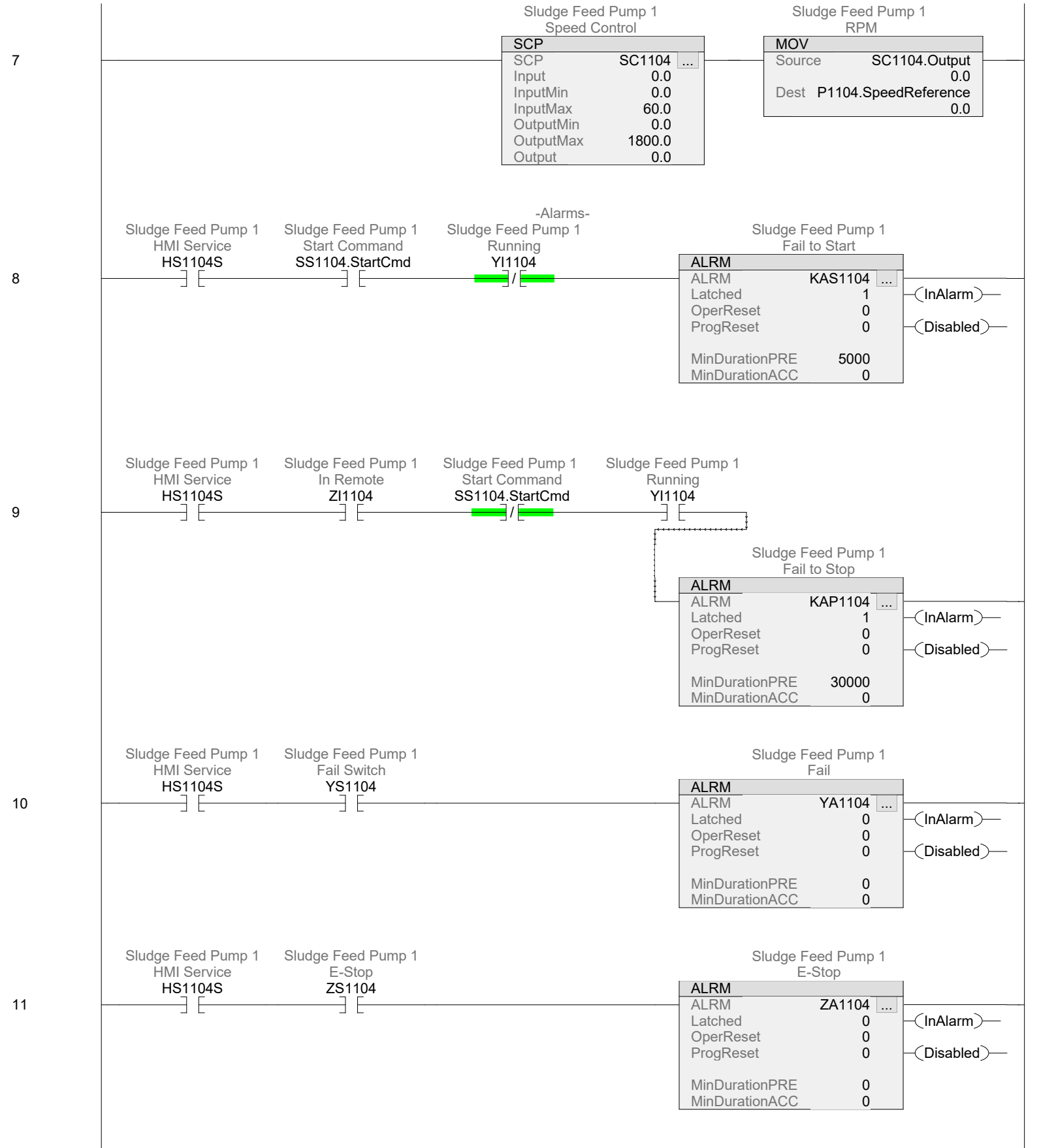
LAT1102 (Continued)			
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
<i>LAT1102.InAlarm - MainProgram/L1102_SHT1_BlanketLevel - 2(XIO), 3(XIO)</i>			
LAT1102.Disabled	0	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
LAT1102.MinDurationPRE	5000	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
LAT1102.MinDurationACC	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
LAT1102.AlarmCount	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
LAT1102.InAlarmDate	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
LAT1102.InAlarmTime	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
LAT1102.RetToNormalDate	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
LAT1102.RetToNormalTime	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
LAT1102.AlarmCountResetDate	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
LAT1102.AlarmCountResetTime	0	DINT	
Sludge Holding Tank 1 Sludge Blanket Level Signal Fail			
LCH1102	100.0	REAL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level Alarm High SP			
Constant	No		
External Access:	Read/Write		
<i>LCH1102 - MainProgram/L1102_SHT1_BlanketLevel - 2(GRT)</i>			
LCL1102	0.0	REAL	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level Alarm Low SP			
Constant	No		
External Access:	Read/Write		
<i>LCL1102 - MainProgram/L1102_SHT1_BlanketLevel - 3(LES)</i>			
LI1102		SCP	PLC_SH
Sludge Holding Tank 1 Sludge Blanket Level			
Constant	No		
External Access:	Read/Write		
<i>LI1102 - MainProgram/L1102_SHT1_BlanketLevel - *0(SCP)</i>			
LI1102.EnableIn	1	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Enable Input - System Defined Parameter			
LI1102.EnableOut	1	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level Enable Output - System Defined Parameter			
LI1102.Input	0.0	REAL	
Sludge Holding Tank 1 Sludge Blanket Level			
<i>LI1102.Input - MainProgram/L1102_SHT1_BlanketLevel - *0(MOV), 1(LIM)</i>			
LI1102.InputMin	4000.0	REAL	
Sludge Holding Tank 1 Sludge Blanket Level			
LI1102.InputMax	20000.0	REAL	
Sludge Holding Tank 1 Sludge Blanket Level			
LI1102.OutputMin	0.0	REAL	
Sludge Holding Tank 1 Sludge Blanket Level			
LI1102.OutputMax	100.0	REAL	
Sludge Holding Tank 1 Sludge Blanket Level			
LI1102.Output	0.0	REAL	
Sludge Holding Tank 1 Sludge Blanket Level			
<i>LI1102.Output - MainProgram/L1102_SHT1_BlanketLevel - 2(GRT), 3(LES)</i>			
LI1102.ClampMin	1	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level			
LI1102.ClampMax	1	BOOL	
Sludge Holding Tank 1 Sludge Blanket Level			

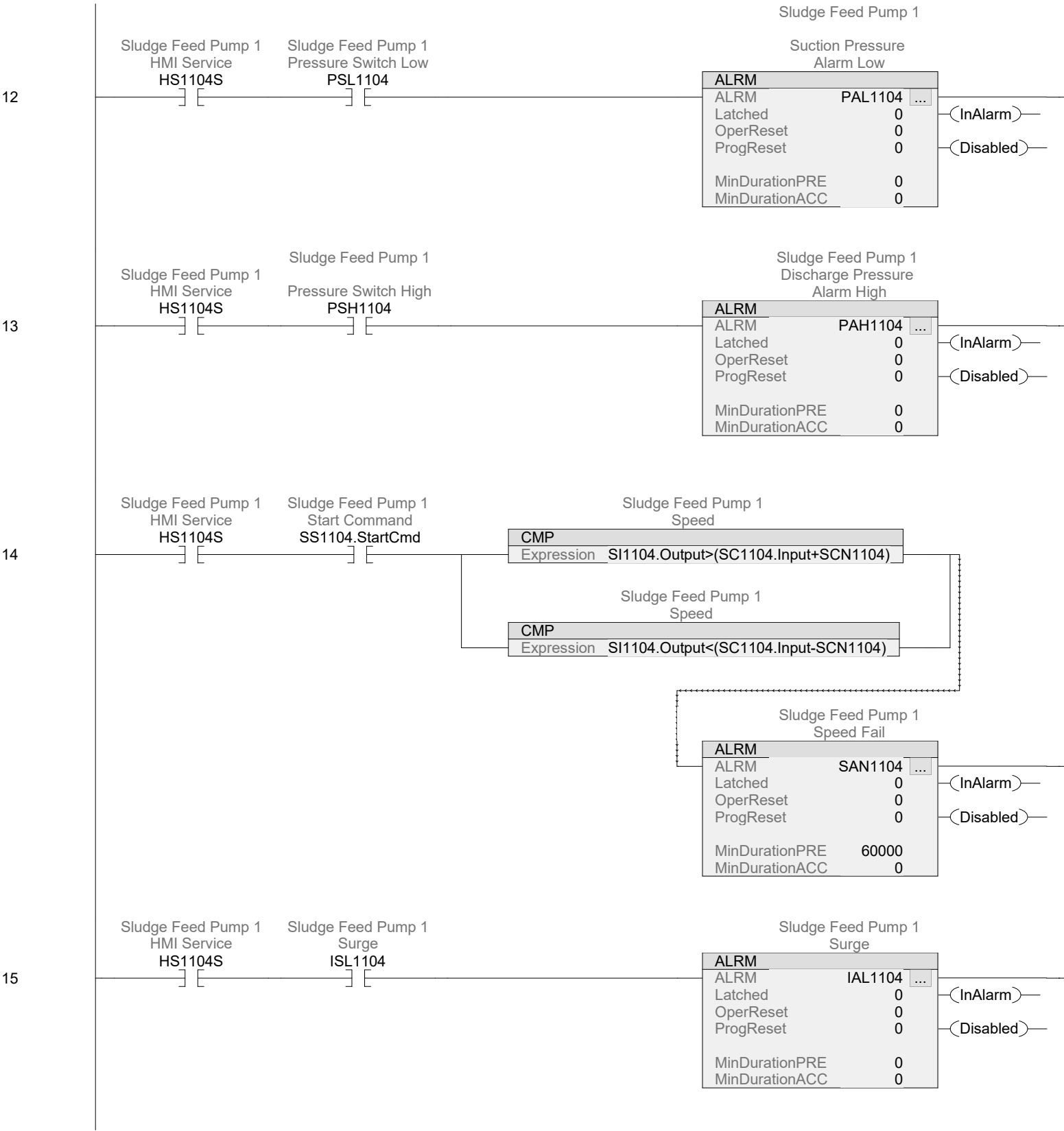
Local:5:I		AB:1769_IF8:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:5:I.Ch0Data	0	INT	
<i>Local:5:I.Ch0Data - MainProgram/L1101_SHT1_Level - 0(MOV)</i>			
Local:5:I.Ch1Data	0	INT	
<i>Local:5:I.Ch1Data - MainProgram/L1102_SHT1_BlanketLevel - 0(MOV)</i>			
Local:5:I.Ch2Data	0	INT	
<i>Local:5:I.Ch2Data - MainProgram/L3103_AerBlower_Pressure - 0(MOV)</i>			

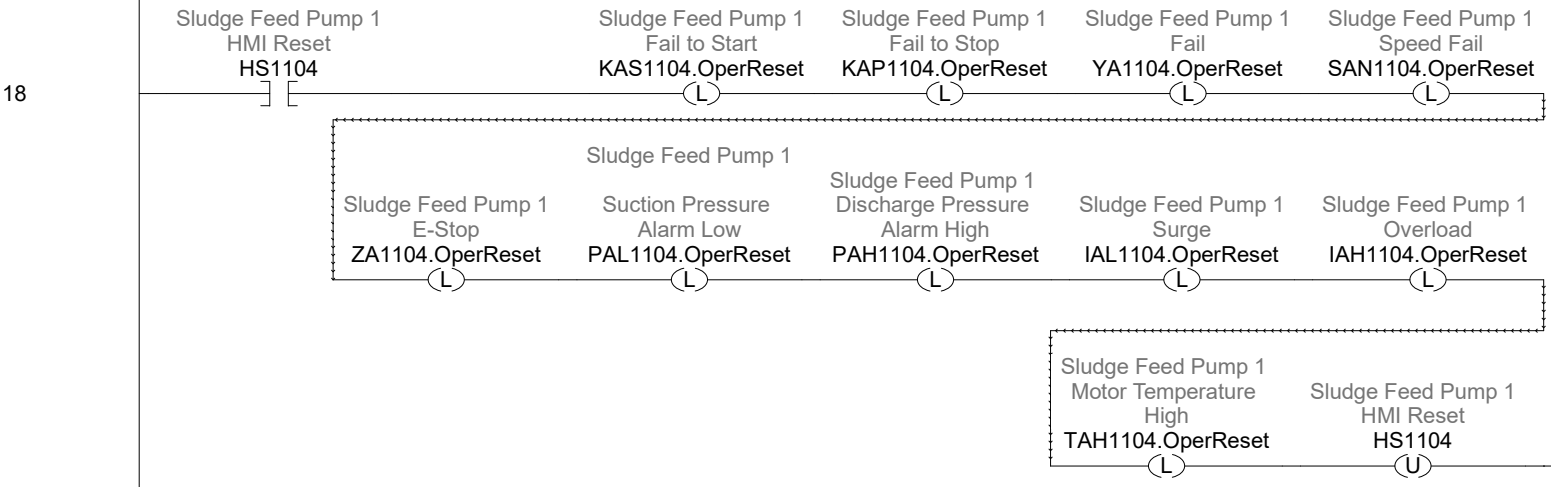
General

Type:	 Ladder Diagram	Number of Rungs:	5
In Program:	 MainProgram		

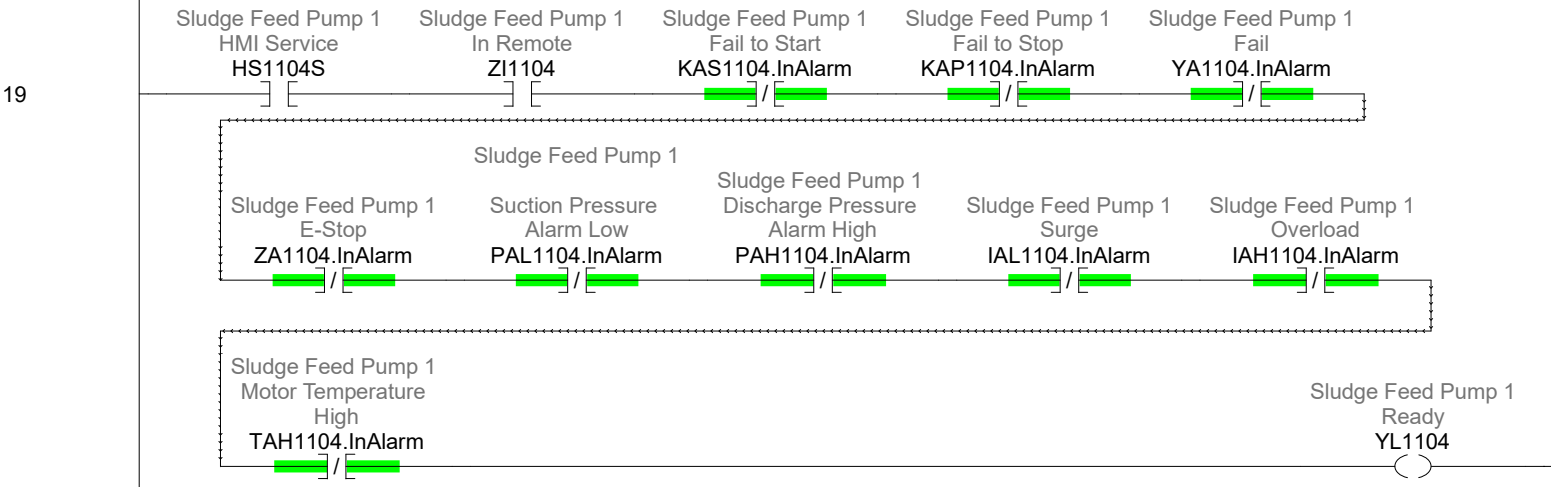


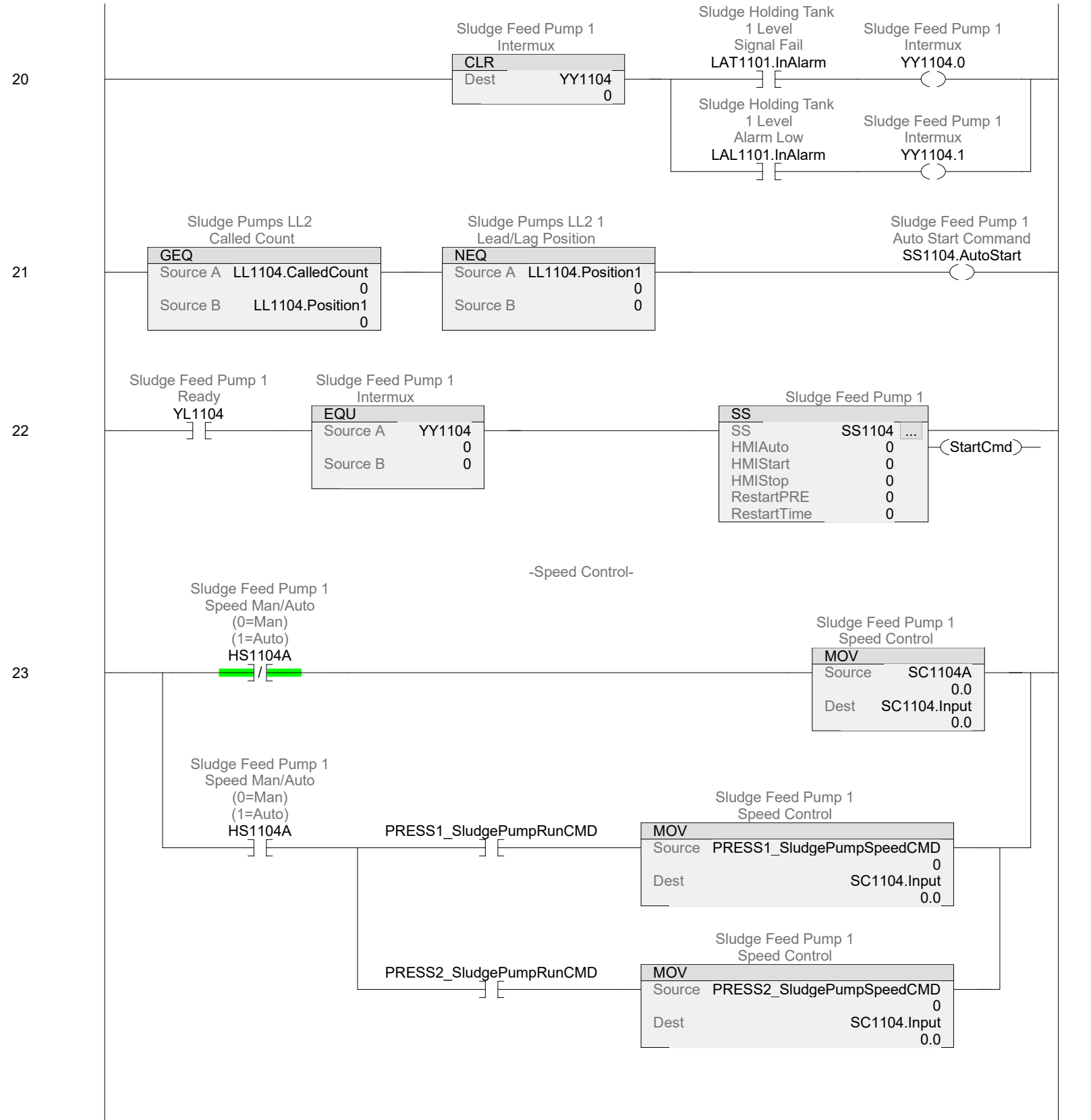


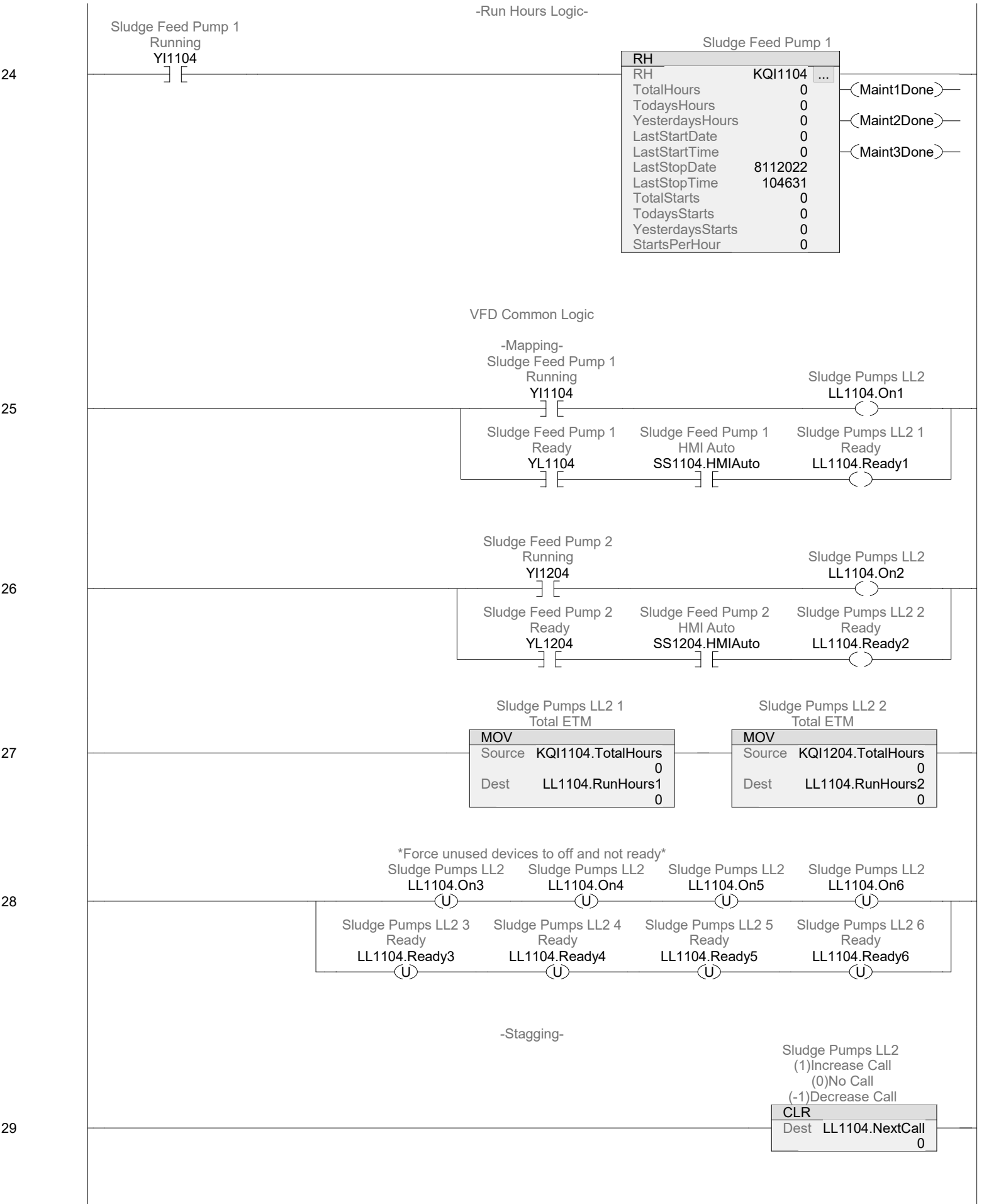


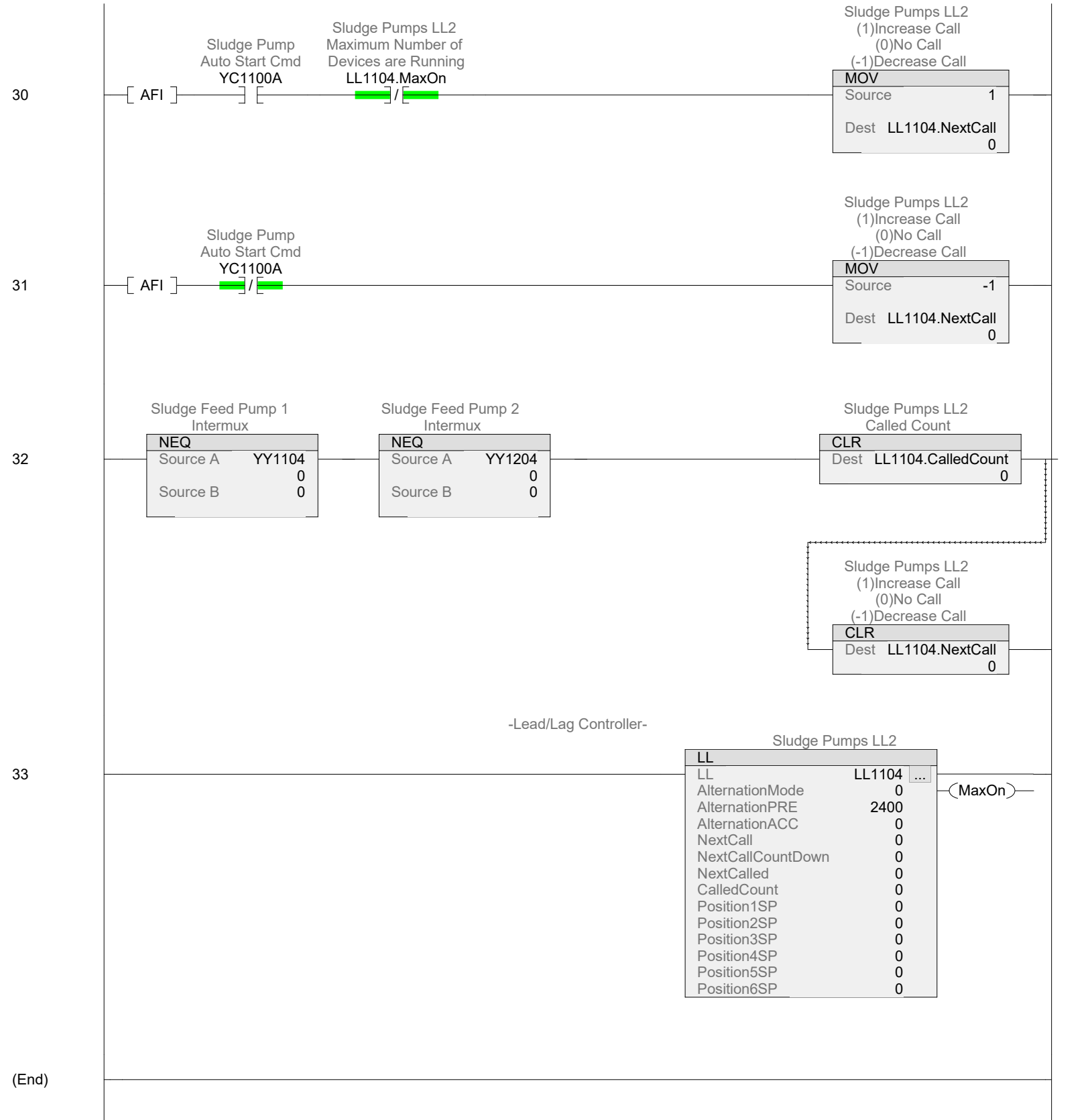


-Control Logic-









Name	Value	Data Type	Scope
HS1104 Sludge Feed Pump 1 HMI Reset	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>HS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTU), 18(XIC)</i>			
HS1104A Sludge Feed Pump 1 Speed Man/Auto (0=Man) (1=Auto)	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>HS1104A - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC), 23(XIO)</i>			
HS1104S Sludge Feed Pump 1 HMI Service	0	BOOL	PLC_SH
Constant	No		
External Access:	Read Only		
<i>HS1104S - MainProgram/L1104_SludgeFeedPump1_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 17(XIC), 19(XIC), 8(XIC), 9(XIC)</i>			
IAH1104 Sludge Feed Pump 1 Overload		ALRM	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>IAH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *16(ALRM)</i>			
IAH1104.EnableIn Sludge Feed Pump 1 Overload Enable Input - System Defined Parameter	0	BOOL	
IAH1104.EnableOut Sludge Feed Pump 1 Overload Enable Output - System Defined Parameter	0	BOOL	
IAH1104.Latched Sludge Feed Pump 1 Overload	0	BOOL	
IAH1104.OperReset Sludge Feed Pump 1 Overload	0	BOOL	
<i>IAH1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>			
IAH1104.ProgReset Sludge Feed Pump 1 Overload	0	BOOL	
IAH1104.OperDisable Sludge Feed Pump 1 Overload	0	BOOL	
IAH1104.OperEnable Sludge Feed Pump 1 Overload	0	BOOL	
IAH1104.AlarmCountReset Sludge Feed Pump 1 Overload Set to 1 to reset alarm count	0	BOOL	
IAH1104.InAlarm Sludge Feed Pump 1 Overload	0	BOOL	
<i>IAH1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>			
IAH1104.Disabled Sludge Feed Pump 1 Overload	0	BOOL	
IAH1104.MinDurationPRE Sludge Feed Pump 1 Overload	0	DINT	
IAH1104.MinDurationACC Sludge Feed Pump 1 Overload	0	DINT	
IAH1104.AlarmCount Sludge Feed Pump 1 Overload	0	DINT	
IAH1104.InAlarmDate Sludge Feed Pump 1 Overload	0	DINT	
IAH1104.InAlarmTime Sludge Feed Pump 1 Overload	0	DINT	
IAH1104.RetToNormalDate Sludge Feed Pump 1 Overload	0	DINT	
IAH1104.RetToNormalTime Sludge Feed Pump 1 Overload	0	DINT	
IAH1104.AlarmCountResetDate Sludge Feed Pump 1 Overload	0	DINT	
IAH1104.AlarmCountResetTime Sludge Feed Pump 1 Overload	0	DINT	

IAH1104 (Continued)			
Sludge Feed Pump 1 Overload			
IAL1104			ALRM PLC_SH
Sludge Feed Pump 1 Surge			
Constant	No		
External Access:	Read/Write		
<i>IAL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *15(ALRM)</i>			
IAL1104.EnableIn	0		BOOL
Sludge Feed Pump 1 Surge Enable Input - System Defined Parameter			
IAL1104.EnableOut	0		BOOL
Sludge Feed Pump 1 Surge Enable Output - System Defined Parameter			
IAL1104.Latched	0		BOOL
Sludge Feed Pump 1 Surge			
IAL1104.OperReset	0		BOOL
Sludge Feed Pump 1 Surge			
<i>IAL1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>			
IAL1104.ProgReset	0		BOOL
Sludge Feed Pump 1 Surge			
IAL1104.OperDisable	0		BOOL
Sludge Feed Pump 1 Surge			
IAL1104.OperEnable	0		BOOL
Sludge Feed Pump 1 Surge			
IAL1104.AlarmCountReset	0		BOOL
Sludge Feed Pump 1 Surge Set to 1 to reset alarm count			
IAL1104.InAlarm	0		BOOL
Sludge Feed Pump 1 Surge			
<i>IAL1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>			
IAL1104.Disabled	0		BOOL
Sludge Feed Pump 1 Surge			
IAL1104.MinDurationPRE	0		DINT
Sludge Feed Pump 1 Surge			
IAL1104.MinDurationACC	0		DINT
Sludge Feed Pump 1 Surge			
IAL1104.AlarmCount	0		DINT
Sludge Feed Pump 1 Surge			
IAL1104.InAlarmDate	0		DINT
Sludge Feed Pump 1 Surge			
IAL1104.InAlarmTime	0		DINT
Sludge Feed Pump 1 Surge			
IAL1104.RetToNormalDate	0		DINT
Sludge Feed Pump 1 Surge			
IAL1104.RetToNormalTime	0		DINT
Sludge Feed Pump 1 Surge			
IAL1104.AlarmCountResetDate	0		DINT
Sludge Feed Pump 1 Surge			
IAL1104.AlarmCountResetTime	0		DINT
Sludge Feed Pump 1 Surge			
ISH1104	0		BOOL PLC_SH
Sludge Feed Pump 1 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 16(XIC)</i>			
ISL1104	0		BOOL PLC_SH
Sludge Feed Pump 1 Surge			
Constant	No		
External Access:	Read/Write		
<i>ISL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 15(XIC)</i>			
KAP1104			ALRM PLC_SH
Sludge Feed Pump 1 Fail to Stop			
Constant	No		

KAP1104 (Continued)

External Access:	Read/Write	
<i>KAP1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *9(ALRM)</i>		
KAP1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Fail to Stop Enable Input - System Defined Parameter		
KAP1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Fail to Stop Enable Output - System Defined Parameter		
KAP1104.Latched	1	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.OperReset	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
<i>KAP1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
KAP1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Fail to Stop Set to 1 to reset alarm count		
KAP1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
<i>KAP1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
KAP1104.Disabled	0	BOOL
Sludge Feed Pump 1 Fail to Stop		
KAP1104.MinDurationPRE	30000	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Fail to Stop		
KAP1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Fail to Stop		

KAS1104 ALRM PLC_SH

Sludge Feed Pump 1 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *8(ALRM)</i>		
KAS1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Fail to Start Enable Input - System Defined Parameter		
KAS1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Fail to Start Enable Output - System Defined Parameter		
KAS1104.Latched	1	BOOL
Sludge Feed Pump 1 Fail to Start		
KAS1104.OperReset	0	BOOL
Sludge Feed Pump 1 Fail to Start		
<i>KAS1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
KAS1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Fail to Start		
KAS1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Fail to Start		
KAS1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Fail to Start		

KAS1104 (Continued)		
KAS1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Fail to Start Set to 1 to reset alarm count		
KAS1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Fail to Start		
<i>KAS1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
KAS1104.Disabled	0	BOOL
Sludge Feed Pump 1 Fail to Start		
KAS1104.MinDurationPRE	5000	DINT
Sludge Feed Pump 1 Fail to Start		
KAS1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Fail to Start		
KAS1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Fail to Start		
KAS1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Fail to Start		
KAS1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Fail to Start		
KAS1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Fail to Start		
KAS1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Fail to Start		
KAS1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Fail to Start		
KAS1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Fail to Start		
KQI1104		RH
Sludge Feed Pump 1		
Constant	No	
External Access:	Read/Write	
<i>KQI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *24(RH)</i>		
KQI1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Enable Input - System Defined Parameter		
KQI1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Enable Output - System Defined Parameter		
KQI1104.TotalHours	0	DINT
Sludge Feed Pump 1 Total ETM		
<i>KQI1104.TotalHours - MainProgram/L1104_SludgeFeedPump1_VFD - 27(MOV)</i>		
KQI1104.TodaysHours	0	DINT
Sludge Feed Pump 1 Today's ETM		
KQI1104.YesterdaysHours	0	DINT
Sludge Feed Pump 1 Yesterday's ETM		
KQI1104.LastStartDate	0	DINT
Sludge Feed Pump 1 Last Start Date		
KQI1104.LastStartTime	0	DINT
Sludge Feed Pump 1 Last Start Time		
KQI1104.LastStopDate	8112022	DINT
Sludge Feed Pump 1 Last Stop Date		
KQI1104.LastStopTime	104631	DINT
Sludge Feed Pump 1 Last Stop Time		
KQI1104.TotalStarts	0	DINT
Sludge Feed Pump 1 Total Starts		
KQI1104.TodaysStarts	0	DINT
Sludge Feed Pump 1 Today's Starts		
KQI1104.YesterdaysStarts	0	DINT
Sludge Feed Pump 1 Yesterday's Starts		
KQI1104.StartsPerHour	0	DINT
Sludge Feed Pump 1 Calculated Number of Starts per Hour		
KQI1104.HourSP	0	DINT
Sludge Feed Pump 1 Hour to Rollover (0 - 23)		
KQI1104.MinuteSP	0	DINT
Sludge Feed Pump 1 Minute to Rollover (0 - 59)		
KQI1104.HMIRReset	0	BOOL
PLC_SH		

KQI1104 (Continued)		
Sludge Feed Pump 1		
KQI1104.Maint1Hours	0	DINT
Sludge Feed Pump 1 Maintenance 1 Hours		
KQI1104.Maint2Hours	0	DINT
Sludge Feed Pump 1 Maintenance 2 Hours		
KQI1104.Maint3Hours	0	DINT
Sludge Feed Pump 1 Maintenance 3 Hours		
KQI1104.Maint1Done	0	BOOL
Sludge Feed Pump 1 Maintenance 1 Due		
KQI1104.Maint2Done	0	BOOL
Sludge Feed Pump 1 Maintenance 2 Due		
KQI1104.Maint3Done	0	BOOL
Sludge Feed Pump 1 Maintenance 3 Due		
KQI1104.Maint1SP	50000	DINT
Sludge Feed Pump 1 Maintenance 1 Hours SP		
KQI1104.Maint2SP	50000	DINT
Sludge Feed Pump 1 Maintenance 2 Hours SP		
KQI1104.Maint3SP	50000	DINT
Sludge Feed Pump 1 Maintenance 3 Hours SP		
KQI1204		RH
Sludge Pump 2 Run Hours		PLC_SH
Constant	No	
External Access:	Read/Write	
<i>KQI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *24(RH)</i>		
KQI1204.EnableIn	0	BOOL
Sludge Pump 2 Run Hours Enable Input - System Defined Parameter		
KQI1204.EnableOut	0	BOOL
Sludge Pump 2 Run Hours Enable Output - System Defined Parameter		
KQI1204.TotalHours	0	DINT
Sludge Pump 2 Run Hours Total ETM		
<i>KQI1204.TotalHours - MainProgram/L1104_SludgeFeedPump1_VFD - 27(MOV)</i>		
KQI1204.TodaysHours	0	DINT
Sludge Pump 2 Run Hours Today's ETM		
KQI1204.YesterdaysHours	0	DINT
Sludge Pump 2 Run Hours Yesterday's ETM		
KQI1204.LastStartDate	0	DINT
Sludge Pump 2 Run Hours Last Start Date		
KQI1204.LastStartTime	0	DINT
Sludge Pump 2 Run Hours Last Start Time		
KQI1204.LastStopDate	8112022	DINT
Sludge Pump 2 Run Hours Last Stop Date		
KQI1204.LastStopTime	104631	DINT
Sludge Pump 2 Run Hours Last Stop Time		
KQI1204.TotalStarts	0	DINT
Sludge Pump 2 Run Hours Total Starts		
KQI1204.TodaysStarts	0	DINT
Sludge Pump 2 Run Hours Today's Starts		
KQI1204.YesterdaysStarts	0	DINT
Sludge Pump 2 Run Hours Yesterday's Starts		
KQI1204.StartsPerHour	0	DINT
Sludge Pump 2 Run Hours Calculated Number of Starts per Hour		
KQI1204.HourSP	0	DINT
Sludge Pump 2 Run Hours Hour to Rollover (0 - 23)		
KQI1204.MinuteSP	0	DINT
Sludge Pump 2 Run Hours Minute to Rollover (0 - 59)		
KQI1204.HMIRreset	0	BOOL
Sludge Pump 2 Run Hours		
KQI1204.Maint1Hours	0	DINT
Sludge Pump 2 Run Hours Maintenance 1 Hours		
KQI1204.Maint2Hours	0	DINT
Sludge Pump 2 Run Hours Maintenance 2 Hours		
KQI1204.Maint3Hours	0	DINT

KQI1204 (Continued)

Sludge Pump 2 Run Hours Maintenance 3 Hours		
KQI1204.Maint1Done	0	BOOL
Sludge Pump 2 Run Hours Maintenance 1 Due		
KQI1204.Maint2Done	0	BOOL
Sludge Pump 2 Run Hours Maintenance 2 Due		
KQI1204.Maint3Done	0	BOOL
Sludge Pump 2 Run Hours Maintenance 3 Due		
KQI1204.Maint1SP	50000	DINT
Sludge Pump 2 Run Hours Maintenance 1 Hours SP		
KQI1204.Maint2SP	50000	DINT
Sludge Pump 2 Run Hours Maintenance 2 Hours SP		
KQI1204.Maint3SP	50000	DINT
Sludge Pump 2 Run Hours Maintenance 3 Hours SP		

LAL1101 ALRM PLC_SH

Sludge Holding Tank 1 Level Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>LAL1101 - MainProgram/L1101_SHT1_Level - *3(ALRM)</i>		
LAL1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Input - System Defined Parameter		
LAL1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Output - System Defined Parameter		
LAL1101.Latched	1	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAL1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Set to 1 to reset alarm count		
LAL1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.InAlarm - MainProgram/L1100_PressControl - 0(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>		
LAL1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RefToNormalDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RefToNormalTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		

Tag Name	Value	Unit	Alarm Type
LAT1101			ALRM
Sludge Holding Tank 1 Level Signal Fail			
Constant	No		
External Access:	Read/Write		
<i>LAT1101 - MainProgram/L1101_SHT1_Level - *1(ALRM)</i>			
LAT1101.EnableIn	0		BOOL
Sludge Holding Tank 1 Level Signal Fail Enable Input - System Defined Parameter			
LAT1101.EnableOut	0		BOOL
Sludge Holding Tank 1 Level Signal Fail Enable Output - System Defined Parameter			
LAT1101.Latched	0		BOOL
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.OperReset	0		BOOL
Sludge Holding Tank 1 Level Signal Fail			
<i>LAT1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>			
LAT1101.ProgReset	0		BOOL
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.OperDisable	0		BOOL
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.OperEnable	0		BOOL
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.AlarmCountReset	0		BOOL
Sludge Holding Tank 1 Level Signal Fail Set to 1 to reset alarm count			
LAT1101.InAlarm	0		BOOL
Sludge Holding Tank 1 Level Signal Fail			
<i>LAT1101.InAlarm - MainProgram/L1101_SHT1_Level - 2(XIO), 3(XIO)</i>			
<i>LAT1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>			
<i>LAT1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>			
<i>LAT1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>			
<i>LAT1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>			
LAT1101.Disabled	0		BOOL
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.MinDurationPRE	5000		DINT
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.MinDurationACC	0		DINT
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.AlarmCount	0		DINT
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.InAlarmDate	0		DINT
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.InAlarmTime	0		DINT
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.RetToNormalDate	0		DINT
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.RetToNormalTime	0		DINT
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.AlarmCountResetDate	0		DINT
Sludge Holding Tank 1 Level Signal Fail			
LAT1101.AlarmCountResetTime	0		DINT
Sludge Holding Tank 1 Level Signal Fail			
LL1104			LL
Sludge Pumps LL2			
Constant	No		
External Access:	Read/Write		
<i>LL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *33(LL)</i>			
LL1104.EnableIn	1		BOOL
Sludge Pumps LL2 Enable Input - System Defined Parameter			
LL1104.EnableOut	1		BOOL
Sludge Pumps LL2 Enable Output - System Defined Parameter			
LL1104.AlternationMode	0		DINT
Sludge Pumps LL2 Alternation Mode			
LL1104.AlternationPRE	2400		DINT
Sludge Pumps LL2 Alternation Time Preset (0.01 HRS)			
LL1104.AlternationACC	0		DINT

LL1104 (Continued)

Sludge Pumps LL2 Alternation Time Accumulated (0.01 HRS)		
LL1104.NextCall	0	DINT
Sludge Pumps LL2 (1)Increase Call (0)No Call (-1)Decrease Call		
<i>LL1104.NextCall - MainProgram/L1104_SludgeFeedPump1_VFD - *29(CLR), *30(MOV), *31(MOV), *32(CLR)</i>		
LL1104.NextCallCountDown	0	DINT
Sludge Pumps LL2 Next Call Count Down (Milliseconds)		
LL1104.NextCalled	0	DINT
Sludge Pumps LL2 (Equipment Number)		
LL1104.CalledCount	0	DINT
Sludge Pumps LL2 Called Count		
<i>LL1104.CalledCount - MainProgram/L1104_SludgeFeedPump1_VFD - *32(CLR), 21(GEQ)</i>		
<i>LL1104.CalledCount - MainProgram/L1204_SludgeFeedPump2_VFD - 21(GEQ)</i>		
LL1104.ReadyCount	0	DINT
Sludge Pumps LL2 Ready Count		
LL1104.OnCountTotal	0	DINT
Sludge Pumps LL2 Total On Count		
LL1104.OnCountAuto	0	DINT
Sludge Pumps LL2 Auto On Count		
LL1104.OnCountMax	1	DINT
Sludge Pumps LL2 Maximum On Count		
LL1104.Ready1	0	BOOL
Sludge Pumps LL2 1 Ready		
<i>LL1104.Ready1 - MainProgram/Communications - 19(XIO), 4(XIO)</i>		
<i>LL1104.Ready1 - MainProgram/L1100_PressControl - 0(XIO), 1(XIO)</i>		
<i>LL1104.Ready1 - MainProgram/L1104_SludgeFeedPump1_VFD - *25(OTE)</i>		
LL1104.Ready2	0	BOOL
Sludge Pumps LL2 2 Ready		
<i>LL1104.Ready2 - MainProgram/Communications - 19(XIO), 4(XIO)</i>		
<i>LL1104.Ready2 - MainProgram/L1100_PressControl - 0(XIO), 1(XIO)</i>		
<i>LL1104.Ready2 - MainProgram/L1104_SludgeFeedPump1_VFD - *26(OTE)</i>		
LL1104.Ready3	0	BOOL
Sludge Pumps LL2 3 Ready		
<i>LL1104.Ready3 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready4	0	BOOL
Sludge Pumps LL2 4 Ready		
<i>LL1104.Ready4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready5	0	BOOL
Sludge Pumps LL2 5 Ready		
<i>LL1104.Ready5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready6	0	BOOL
Sludge Pumps LL2 6 Ready		
<i>LL1104.Ready6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.RunHours1	0	DINT
Sludge Pumps LL2 1 Total ETM		
<i>LL1104.RunHours1 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours2	0	DINT
Sludge Pumps LL2 2 Total ETM		
<i>LL1104.RunHours2 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours3	0	DINT
Sludge Pumps LL2 3 Total ETM		
LL1104.RunHours4	0	DINT
Sludge Pumps LL2 4 Total ETM		
LL1104.RunHours5	0	DINT
Sludge Pumps LL2 5 Total ETM		
LL1104.RunHours6	0	DINT
Sludge Pumps LL2 6 Total ETM		
LL1104.Position1SP	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position SP		
LL1104.Position2SP	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position SP		
LL1104.Position3SP	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position SP		
LL1104.Position4SP	0	DINT

LL1104 (Continued)

Sludge Pumps LL2 4 Lead/Lag Position SP		
LL1104.Position5SP	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position SP		
LL1104.Position6SP	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position SP		
LL1104.Position1	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position		
<i>LL1104.Position1 - MainProgram/L1104_SludgeFeedPump1_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position2	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position		
<i>LL1104.Position2 - MainProgram/L1204_SludgeFeedPump2_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position3	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position		
LL1104.Position4	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position		
LL1104.Position5	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position		
LL1104.Position6	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position		
LL1104.Delay0_1	5000	DINT
Sludge Pumps LL2 Call On 0 to 1 Delay (Milliseconds)		
LL1104.Delay1_2	10000	DINT
Sludge Pumps LL2 Call On 1 to 2 Delay (Milliseconds)		
LL1104.Delay2_3	15000	DINT
Sludge Pumps LL2 Call On 2 to 3 Delay (Milliseconds)		
LL1104.Delay3_4	20000	DINT
Sludge Pumps LL2 Call On 3 to 4 Delay (Milliseconds)		
LL1104.Delay4_5	25000	DINT
Sludge Pumps LL2 Call On 4 to 5 Delay (Milliseconds)		
LL1104.Delay5_6	30000	DINT
Sludge Pumps LL2 Call On 5 to 6 Delay (Milliseconds)		
LL1104.Delay6_5	30000	DINT
Sludge Pumps LL2 Call Off 6 to 5 Delay (Milliseconds)		
LL1104.Delay5_4	25000	DINT
Sludge Pumps LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL1104.Delay4_3	20000	DINT
Sludge Pumps LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL1104.Delay3_2	15000	DINT
Sludge Pumps LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL1104.Delay2_1	10000	DINT
Sludge Pumps LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL1104.Delay1_0	5000	DINT
Sludge Pumps LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL1104.MaxOn	0	BOOL
Sludge Pumps LL2 Maximum Number of Devices are Running		
<i>LL1104.MaxOn - MainProgram/L1104_SludgeFeedPump1_VFD - 30(XIO)</i>		
LL1104.On1	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On1 - MainProgram/L1104_SludgeFeedPump1_VFD - *25(O TE)</i>		
LL1104.On2	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On2 - MainProgram/L1104_SludgeFeedPump1_VFD - *26(O TE)</i>		
LL1104.On3	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On3 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On4	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On5	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On6	0	BOOL
Sludge Pumps LL2		

LL1104 (Continued)		
<i>LL1104.On6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.CountUpOS	0	BOOL
Sludge Pumps LL2		
LL1104.CountDownOS	0	BOOL
Sludge Pumps LL2		
P1104		DG1
Sludge Feed Pump 1		
Constant	No	
External Access:	Read/Write	
<i>P1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *0(DG1)</i>		
P1104.EnableIn	1	BOOL
Sludge Feed Pump 1 Enable Input - System Defined Parameter		
P1104.EnableOut	1	BOOL
Sludge Feed Pump 1 Enable Output - System Defined Parameter		
P1104.Comm_Fault	1	BOOL
Sludge Feed Pump 1		
P1104.NetCtrl	1	BOOL
Sludge Feed Pump 1		
<i>P1104.NetCtrl - MainProgram/L1104_SludgeFeedPump1_VFD - *0(OTE)</i>		
P1104.NetRef	0	BOOL
Sludge Feed Pump 1		
<i>P1104.NetRef - MainProgram/L1104_SludgeFeedPump1_VFD - *1(OTE)</i>		
P1104.Ready	0	BOOL
Sludge Feed Pump 1		
<i>P1104.Ready - MainProgram/L1104_SludgeFeedPump1_VFD - 1(XIC)</i>		
P1104.Running	0	BOOL
Sludge Feed Pump 1		
<i>P1104.Running - MainProgram/L1104_SludgeFeedPump1_VFD - 3(XIC)</i>		
P1104.Direction	0	BOOL
Sludge Feed Pump 1		
P1104.Faulted	0	BOOL
Sludge Feed Pump 1		
<i>P1104.Faulted - MainProgram/L1104_SludgeFeedPump1_VFD - 4(XIC)</i>		
P1104.Warning	0	BOOL
Sludge Feed Pump 1		
P1104.At_Reference	0	BOOL
Sludge Feed Pump 1		
P1104.ZeroSpeed	0	BOOL
Sludge Feed Pump 1		
P1104.FluxReady	0	BOOL
Sludge Feed Pump 1		
P1104.Speed	0.0	REAL
Sludge Feed Pump 1		
P1104.Frequency	0.0	REAL
Sludge Feed Pump 1		
<i>P1104.Frequency - MainProgram/L1104_SludgeFeedPump1_VFD - 6(MOV)</i>		
P1104.Speed_RPM	0.0	REAL
Sludge Feed Pump 1		
P1104.Current	0.0	REAL
Sludge Feed Pump 1		
P1104.Torque	0.0	REAL
Sludge Feed Pump 1		
P1104.Power	0.0	REAL
Sludge Feed Pump 1		
P1104.Voltage	0.0	REAL
Sludge Feed Pump 1		
P1104.InputPower	0.0	REAL
Sludge Feed Pump 1		
P1104.DIN1	0	BOOL
Sludge Feed Pump 1		
P1104.DIN2	0	BOOL
Sludge Feed Pump 1		

P1104 (Continued)			
P1104.DIN3	0	BOOL	
Sludge Feed Pump 1			
P1104.DIN4	0	BOOL	
Sludge Feed Pump 1			
P1104.DIN5	0	BOOL	
Sludge Feed Pump 1			
P1104.DIN6	0	BOOL	
Sludge Feed Pump 1			
P1104.DIN7	0	BOOL	
Sludge Feed Pump 1			
P1104.DIN8	0	BOOL	
Sludge Feed Pump 1			
<i>P1104.DIN8 - MainProgram/L1104_SludgeFeedPump1_VFD - 2(XIC)</i>			
P1104.DO1	0	BOOL	
Sludge Feed Pump 1			
P1104.RO1	0	BOOL	
Sludge Feed Pump 1			
P1104.RO2	0	BOOL	
Sludge Feed Pump 1			
P1104.RO3	0	BOOL	
Sludge Feed Pump 1			
P1104.Binary	0	DINT	
Sludge Feed Pump 1			
P1104.FaultCode	0	DINT	
Sludge Feed Pump 1			
P1104.FaultReset	0	BOOL	
Sludge Feed Pump 1			
P1104.SpeedPercentFactor	100	DINT	
Sludge Feed Pump 1			
P1104.FrequencyFactor	10	DINT	
Sludge Feed Pump 1			
P1104.SpeedRPMFactor	1	DINT	
Sludge Feed Pump 1			
P1104.CurrentFactor	10	DINT	
Sludge Feed Pump 1			
P1104.TorqueFactor	10	DINT	
Sludge Feed Pump 1			
P1104.PowerFactor	1	DINT	
Sludge Feed Pump 1			
P1104.FwdCmd	0	BOOL	
Sludge Feed Pump 1			
<i>P1104.FwdCmd - MainProgram/L1104_SludgeFeedPump1_VFD - *5(OTE)</i>			
P1104.RevCmd	0	BOOL	
Sludge Feed Pump 1			
P1104.ReferenceFactor	10	DINT	
Sludge Feed Pump 1 Speed Reference Scale Factor (10)			
P1104.SpeedReference	0.0	REAL	
Sludge Feed Pump 1 RPM			
<i>P1104.SpeedReference - MainProgram/L1104_SludgeFeedPump1_VFD - *7(MOV)</i>			
PAH1104		ALRM	PLC_SH
Sludge Feed Pump 1 Discharge Pressure Alarm High			
Constant	No		
External Access:	Read/Write		
<i>PAH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *13(ALRM)</i>			
PAH1104.EnableIn	0	BOOL	
Sludge Feed Pump 1 Discharge Pressure Alarm High Enable Input - System Defined Parameter			
PAH1104.EnableOut	0	BOOL	
Sludge Feed Pump 1 Discharge Pressure Alarm High Enable Output - System Defined Parameter			
PAH1104.Latched	0	BOOL	
Sludge Feed Pump 1 Discharge Pressure Alarm High			
PAH1104.OperReset	0	BOOL	
Sludge Feed Pump 1 Discharge Pressure Alarm High			

PAH1104 (Continued)

<i>PAH1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
PAH1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
<i>PAH1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
PAH1104.Disabled	0	BOOL
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.MinDurationPRE	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		
PAH1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Discharge Pressure Alarm High		

PAL1104 ALRM PLC_SH

Sludge Feed Pump 1		
Constant	Pressure Alarm Low	No
External Access: Read/Write		
<i>PAL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *12(ALRM)</i>		
PAL1104.EnableIn	0	BOOL
Sludge Feed Pump 1		
PAL1104.PressureOut	Alarm Low Enable	Input - System Defined Parameter
Sludge Feed Pump 1		
PAL1104.Patcher	Alarm Low Enable	Output - System Defined Parameter
Sludge Feed Pump 1		
PAL1104.OperReset	Alarm Low	0
Sludge Feed Pump 1		
<i>PAL1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
PAL1104.ProgReset	0	BOOL
Sludge Feed Pump 1		
PAL1104.OperDisable	Alarm Low	0
Sludge Feed Pump 1		
PAL1104.OperEnable	Alarm Low	0
Sludge Feed Pump 1		
PAL1104.AlarmCountReset	Alarm Low	0
Sludge Feed Pump 1		
PAL1104.InAlarm	Alarm Low Set to 0	to reset alarm count
Sludge Feed Pump 1		
<i>PAL1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>		
PAL1104.Disabled	0	BOOL
Sludge Feed Pump 1		
PAL1104.MinDurationPRE	0	DINT

Tag Name	Value	Unit	Access	Location
PAL1104 (Continued)				
Sludge Feed Pump 1				
PAL1104_PressureAlarmACW	0		DINT	
Sludge Feed Pump 1				
PAL1104_PressureAlarmLow	0		DINT	
Sludge Feed Pump 1				
PAL1104_PressureAlarmLow	0		DINT	
Sludge Feed Pump 1				
PAL1104_PressureAlarmLow	0		DINT	
Sludge Feed Pump 1				
PAL1104_PretToNormalDate	0		DINT	
Sludge Feed Pump 1				
PAL1104_PretToNormalTime	0		DINT	
Sludge Feed Pump 1				
PAL1104_PressureAlarmResetDate	0		DINT	
Sludge Feed Pump 1				
PAL1104_PressureAlarmResetTime	0		DINT	
Sludge Feed Pump 1				
Suction Pressure Alarm Low				
PRESS1_SludgePumpRunCMD	0		BOOL	PLC_SH
Constant	No			
External Access:	Read/Write			
<i>PRESS1_SludgePumpRunCMD - MainProgram/Communications - *8(OTE), 30(XIC), 32(XIC), 32(XIO)</i>				
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>				
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>				
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>				
PRESS1_SludgePumpSpeedCMD	0		DINT	PLC_SH
Press 1 Sludge Pump Speed Command (HZ 1 implied decimal)				
Constant	No			
External Access:	Read/Write			
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/Communications - *11(MOV), 32(MOV)</i>				
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>				
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>				
PRESS2_SludgePumpRunCMD	0		BOOL	PLC_SH
Constant	No			
External Access:	Read/Write			
<i>PRESS2_SludgePumpRunCMD - MainProgram/Communications - *23(OTE), 30(XIC), 32(XIC), 32(XIO)</i>				
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>				
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>				
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>				
PRESS2_SludgePumpSpeedCMD	0		DINT	PLC_SH
Press 2 Sludge Pump Speed Command (HZ 1 implied decimal)				
Constant	No			
External Access:	Read/Write			
<i>PRESS2_SludgePumpSpeedCMD - MainProgram/Communications - *26(MOV), 32(MOV)</i>				
<i>PRESS2_SludgePumpSpeedCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>				
<i>PRESS2_SludgePumpSpeedCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>				
PSH1104	0		BOOL	PLC_SH
Sludge Feed Pump 1				
Pressure Switch High	No			
External Access:	Read/Write			
<i>PSH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 13(XIC)</i>				
PSL1104	0		BOOL	PLC_SH
Sludge Feed Pump 1 Pressure Switch Low				
Constant	No			
External Access:	Read/Write			
<i>PSL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 12(XIC)</i>				
SAN1104			ALRM	PLC_SH

SAN1104 (Continued)

Sludge Feed Pump 1 Speed Fail		
Constant	No	
External Access:	Read/Write	
<i>SAN1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *14(ALRM)</i>		
SAN1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Speed Fail Enable Input - System Defined Parameter		
SAN1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Speed Fail Enable Output - System Defined Parameter		
SAN1104.Latched	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.OperReset	0	BOOL
Sludge Feed Pump 1 Speed Fail		
<i>SAN1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
SAN1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.OperEnable	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCountReset	0	BOOL
Sludge Feed Pump 1 Speed Fail Set to 1 to reset alarm count		
SAN1104.InAlarm	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.Disabled	0	BOOL
Sludge Feed Pump 1 Speed Fail		
SAN1104.MinDurationPRE	60000	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.MinDurationACC	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCount	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.InAlarmDate	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.InAlarmTime	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.RetToNormalDate	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.RetToNormalTime	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCountResetDate	0	DINT
Sludge Feed Pump 1 Speed Fail		
SAN1104.AlarmCountResetTime	0	DINT
Sludge Feed Pump 1 Speed Fail		

SC1104 SCP PLC_SH

Sludge Feed Pump 1 Speed Control		
Constant	No	
External Access:	Read/Write	
<i>SC1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *7(SCP)</i>		
SC1104.EnableIn	1	BOOL
Sludge Feed Pump 1 Speed Control Enable Input - System Defined Parameter		
SC1104.EnableOut	1	BOOL
Sludge Feed Pump 1 Speed Control Enable Output - System Defined Parameter		
SC1104.Input	0.0	REAL
Sludge Feed Pump 1 Speed Control		
<i>SC1104.Input - MainProgram/L1104_SludgeFeedPump1_VFD - *23(MOV), 14(CMP)</i>		
SC1104.InputMin	0.0	REAL
Sludge Feed Pump 1 Speed Control		
SC1104.InputMax	60.0	REAL
Sludge Feed Pump 1 Speed Control		
SC1104.OutputMin	0.0	REAL
Sludge Feed Pump 1 Speed Control		
SC1104.OutputMax	1800.0	REAL

SC1104 (Continued)			
Sludge Feed Pump 1 Speed Control			
SC1104.Output	0.0	REAL	
Sludge Feed Pump 1 Speed Control			
<i>SC1104.Output - MainProgram/L1104_SludgeFeedPump1_VFD - 7(MOV)</i>			
SC1104.ClampMin	1	BOOL	
Sludge Feed Pump 1 Speed Control			
SC1104.ClampMax	1	BOOL	
Sludge Feed Pump 1 Speed Control			
SC1104A	0.0	REAL	PLC_SH
Sludge Feed Pump 1 Manual Speed SP			
Constant	No		
External Access:	Read/Write		
<i>SC1104A - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>			
SCN1104	50.0	REAL	PLC_SH
Sludge Feed Pump 1 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 14(CMP)</i>			
SI1104		SCP	PLC_SH
Sludge Feed Pump 1 Speed			
Constant	No		
External Access:	Read/Write		
<i>SI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *6(SCP)</i>			
SI1104.EnableIn	1	BOOL	
Sludge Feed Pump 1 Speed Enable Input - System Defined Parameter			
SI1104.EnableOut	1	BOOL	
Sludge Feed Pump 1 Speed Enable Output - System Defined Parameter			
SI1104.Input	0.0	REAL	
Sludge Feed Pump 1 Speed			
<i>SI1104.Input - MainProgram/L1104_SludgeFeedPump1_VFD - *6(MOV)</i>			
SI1104.InputMin	0.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.InputMax	60.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.OutputMin	0.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.OutputMax	60.0	REAL	
Sludge Feed Pump 1 Speed			
SI1104.Output	0.0	REAL	
Sludge Feed Pump 1 Speed			
<i>SI1104.Output - MainProgram/L1104_SludgeFeedPump1_VFD - 14(CMP)</i>			
SI1104.ClampMin	1	BOOL	
Sludge Feed Pump 1 Speed			
SI1104.ClampMax	1	BOOL	
Sludge Feed Pump 1 Speed			
SS1104		SS	PLC_SH
Sludge Feed Pump 1			
Constant	No		
External Access:	Read/Write		
<i>SS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *22(SS)</i>			
SS1104.EnableIn	0	BOOL	
Sludge Feed Pump 1 Enable Input - System Defined Parameter			
SS1104.EnableOut	0	BOOL	
Sludge Feed Pump 1 Enable Output - System Defined Parameter			
SS1104.HMIAuto	0	BOOL	
Sludge Feed Pump 1 HMI Auto			
<i>SS1104.HMIAuto - MainProgram/L1104_SludgeFeedPump1_VFD - 25(XIC)</i>			
SS1104.AutoStart	0	BOOL	
Sludge Feed Pump 1 Auto Start Command			

SS1104 (Continued)		
<i>SS1104.AutoStart - MainProgram/L1104_SludgeFeedPump1_VFD - *21(OTE)</i>		
SS1104.HMIStart	0	BOOL
Sludge Feed Pump 1 HMI Manual Start		
SS1104.HMIStop	0	BOOL
Sludge Feed Pump 1 HMI Manual Stop		
SS1104.StartCmd	0	BOOL
Sludge Feed Pump 1 Start Command		
<i>SS1104.StartCmd - MainProgram/L1104_SludgeFeedPump1_VFD - 14(XIC), 5(XIC), 8(XIC), 9(XIO)</i>		
SS1104.RestartActive	0	BOOL
Sludge Feed Pump 1 Restart Delay Active		
SS1104.RestartPRE	0	DINT
Sludge Feed Pump 1 Restart Delay Preset (Milliseconds)		
SS1104.RestartTime	0	DINT
Sludge Feed Pump 1 Actual Restart Time (Times Down)		
SS1204		SS PLC_SH
Sludge Feed Pump 2		
Constant	No	
External Access:	Read/Write	
<i>SS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *22(SS)</i>		
SS1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Enable Input - System Defined Parameter		
SS1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Enable Output - System Defined Parameter		
SS1204.HMIAuto	0	BOOL
Sludge Feed Pump 2 HMI Auto		
<i>SS1204.HMIAuto - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>		
SS1204.AutoStart	0	BOOL
Sludge Feed Pump 2 Auto Start Command		
<i>SS1204.AutoStart - MainProgram/L1204_SludgeFeedPump2_VFD - *21(OTE)</i>		
SS1204.HMIStart	0	BOOL
Sludge Feed Pump 2 HMI Manual Start		
SS1204.HMIStop	0	BOOL
Sludge Feed Pump 2 HMI Manual Stop		
SS1204.StartCmd	0	BOOL
Sludge Feed Pump 2 Start Command		
<i>SS1204.StartCmd - MainProgram/L1204_SludgeFeedPump2_VFD - 14(XIC), 5(XIC), 8(XIC), 9(XIO)</i>		
SS1204.RestartActive	0	BOOL
Sludge Feed Pump 2 Restart Delay Active		
SS1204.RestartPRE	0	DINT
Sludge Feed Pump 2 Restart Delay Preset (Milliseconds)		
SS1204.RestartTime	0	DINT
Sludge Feed Pump 2 Actual Restart Time (Times Down)		
TAH1104		ALRM PLC_SH
Sludge Feed Pump 1 Motor Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *17(ALRM)</i>		
TAH1104.EnableIn	0	BOOL
Sludge Feed Pump 1 Motor Temperature High Enable Input - System Defined Parameter		
TAH1104.EnableOut	0	BOOL
Sludge Feed Pump 1 Motor Temperature High Enable Output - System Defined Parameter		
TAH1104.Latched	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.OperReset	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
<i>TAH1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>		
TAH1104.ProgReset	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.OperDisable	0	BOOL
Sludge Feed Pump 1 Motor Temperature High		
TAH1104.OperEnable	0	BOOL

TAH1104 (Continued)			
Sludge Feed Pump 1 Motor Temperature High			
TAH1104.AlarmCountReset	0	BOOL	
Sludge Feed Pump 1 Motor Temperature High Set to 1 to reset alarm count			
TAH1104.InAlarm	0	BOOL	
Sludge Feed Pump 1 Motor Temperature High			
<i>TAH1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>			
TAH1104.Disabled	0	BOOL	
Sludge Feed Pump 1 Motor Temperature High			
TAH1104.MinDurationPRE	0	DINT	
Sludge Feed Pump 1 Motor Temperature High			
TAH1104.MinDurationACC	0	DINT	
Sludge Feed Pump 1 Motor Temperature High			
TAH1104.AlarmCount	0	DINT	
Sludge Feed Pump 1 Motor Temperature High			
TAH1104.InAlarmDate	0	DINT	
Sludge Feed Pump 1 Motor Temperature High			
TAH1104.InAlarmTime	0	DINT	
Sludge Feed Pump 1 Motor Temperature High			
TAH1104.RetToNormalDate	0	DINT	
Sludge Feed Pump 1 Motor Temperature High			
TAH1104.RetToNormalTime	0	DINT	
Sludge Feed Pump 1 Motor Temperature High			
TAH1104.AlarmCountResetDate	0	DINT	
Sludge Feed Pump 1 Motor Temperature High			
TAH1104.AlarmCountResetTime	0	DINT	
Sludge Feed Pump 1 Motor Temperature High			
TSH1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 High Temperature Switch			
Constant	No		
External Access:	Read/Write		
<i>TSH1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 17(XIC)</i>			
VFD1104:I1		_0044:DG1_7E5A1DEB:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
VFD1104:I1.ConnectionFaulted	1	BOOL	
<i>VFD1104:I1.ConnectionFaulted - MainProgram/L1104_SludgeFeedPump1_VFD - 0(DG1)</i>			
VFD1104:I1.Data		INT	
<i>VFD1104:I1.Data - MainProgram/L1104_SludgeFeedPump1_VFD - *0(DG1)</i>			
VFD1104:O1		_0044:DG1_7377BDB4:O:0	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>VFD1104:O1 - MainProgram/L1104_SludgeFeedPump1_VFD - *0(DG1)</i>			
YA1104		ALRM	PLC_SH
Sludge Feed Pump 1 Fail			
Constant	No		
External Access:	Read/Write		
<i>YA1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *10(ALRM)</i>			
YA1104.EnableIn	0	BOOL	
Sludge Feed Pump 1 Fail Enable Input - System Defined Parameter			
YA1104.EnableOut	0	BOOL	
Sludge Feed Pump 1 Fail Enable Output - System Defined Parameter			
YA1104.Latched	0	BOOL	
Sludge Feed Pump 1 Fail			
YA1104.OperReset	0	BOOL	
Sludge Feed Pump 1 Fail			
<i>YA1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>			
YA1104.ProgReset	0	BOOL	
Sludge Feed Pump 1 Fail			
YA1104.OperDisable	0	BOOL	

YA1104 (Continued)			
Sludge Feed Pump 1 Fail			
YA1104.OperEnable	0	BOOL	
Sludge Feed Pump 1 Fail			
YA1104.AlarmCountReset	0	BOOL	
Sludge Feed Pump 1 Fail Set to 1 to reset alarm count			
YA1104.InAlarm	0	BOOL	
Sludge Feed Pump 1 Fail			
<i>YA1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>			
YA1104.Disabled	0	BOOL	
Sludge Feed Pump 1 Fail			
YA1104.MinDurationPRE	0	DINT	
Sludge Feed Pump 1 Fail			
YA1104.MinDurationACC	0	DINT	
Sludge Feed Pump 1 Fail			
YA1104.AlarmCount	0	DINT	
Sludge Feed Pump 1 Fail			
YA1104.InAlarmDate	0	DINT	
Sludge Feed Pump 1 Fail			
YA1104.InAlarmTime	0	DINT	
Sludge Feed Pump 1 Fail			
YA1104.RetToNormalDate	0	DINT	
Sludge Feed Pump 1 Fail			
YA1104.RetToNormalTime	0	DINT	
Sludge Feed Pump 1 Fail			
YA1104.AlarmCountResetDate	0	DINT	
Sludge Feed Pump 1 Fail			
YA1104.AlarmCountResetTime	0	DINT	
Sludge Feed Pump 1 Fail			
YC1100A	0	BOOL	PLC_SH
Sludge Pump Auto Start Cmd			
Constant	No		
External Access:	Read/Write		
<i>YC1100A - MainProgram/L1100_PressControl - *7(O TE)</i>			
<i>YC1100A - MainProgram/L1104_SludgeFeedPump1_VFD - 30(XIC), 31(XIO)</i>			
YI1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI1104 - MainProgram/Communications - 18(XIC), 3(XIC)</i>			
<i>YI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *3(O TE), 24(XIC), 25(XIC), 8(XIO), 9(XIC)</i>			
YI1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI1204 - MainProgram/Communications - 18(XIC), 3(XIC)</i>			
<i>YI1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>			
<i>YI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *3(O TE), 24(XIC), 8(XIO), 9(XIC)</i>			
YL1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *19(O TE), 22(XIC), 25(XIC)</i>			
YL1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>			
<i>YL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *19(O TE), 22(XIC)</i>			

YS1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *4(OTE), 10(XIC)</i>			
YY1104	0	DINT	PLC_SH
Sludge Feed Pump 1 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *20(CLR), 22(EQU), 32(NEQ)</i>			
YY1104.0	0	BOOL	
Sludge Feed Pump 1 Intermux			
<i>YY1104.0 - MainProgram/L1104_SludgeFeedPump1_VFD - *20(OTE)</i>			
YY1104.1	0	BOOL	
Sludge Feed Pump 1 Intermux			
<i>YY1104.1 - MainProgram/L1104_SludgeFeedPump1_VFD - *20(OTE)</i>			
YY1204	0	DINT	PLC_SH
Sludge Feed Pump 2 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 32(NEQ)</i>			
<i>YY1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(CLR), 22(EQU)</i>			
YY1204.0	0	BOOL	
Sludge Feed Pump 2 Intermux			
<i>YY1204.0 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(OTE)</i>			
YY1204.1	0	BOOL	
Sludge Feed Pump 2 Intermux			
<i>YY1204.1 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(OTE)</i>			
ZA1104		ALRM	PLC_SH
Sludge Feed Pump 1 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZA1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *11(ALRM)</i>			
ZA1104.EnableIn	0	BOOL	
Sludge Feed Pump 1 E-Stop Enable Input - System Defined Parameter			
ZA1104.EnableOut	0	BOOL	
Sludge Feed Pump 1 E-Stop Enable Output - System Defined Parameter			
ZA1104.Latched	0	BOOL	
Sludge Feed Pump 1 E-Stop			
ZA1104.OperReset	0	BOOL	
Sludge Feed Pump 1 E-Stop			
<i>ZA1104.OperReset - MainProgram/L1104_SludgeFeedPump1_VFD - *18(OTL)</i>			
ZA1104.ProgReset	0	BOOL	
Sludge Feed Pump 1 E-Stop			
ZA1104.OperDisable	0	BOOL	
Sludge Feed Pump 1 E-Stop			
ZA1104.OperEnable	0	BOOL	
Sludge Feed Pump 1 E-Stop			
ZA1104.AlarmCountReset	0	BOOL	
Sludge Feed Pump 1 E-Stop Set to 1 to reset alarm count			
ZA1104.InAlarm	0	BOOL	
Sludge Feed Pump 1 E-Stop			
<i>ZA1104.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 19(XIO)</i>			
ZA1104.Disabled	0	BOOL	
Sludge Feed Pump 1 E-Stop			
ZA1104.MinDurationPRE	0	DINT	
Sludge Feed Pump 1 E-Stop			
ZA1104.MinDurationACC	0	DINT	
Sludge Feed Pump 1 E-Stop			
ZA1104.AlarmCount	0	DINT	
Sludge Feed Pump 1 E-Stop			

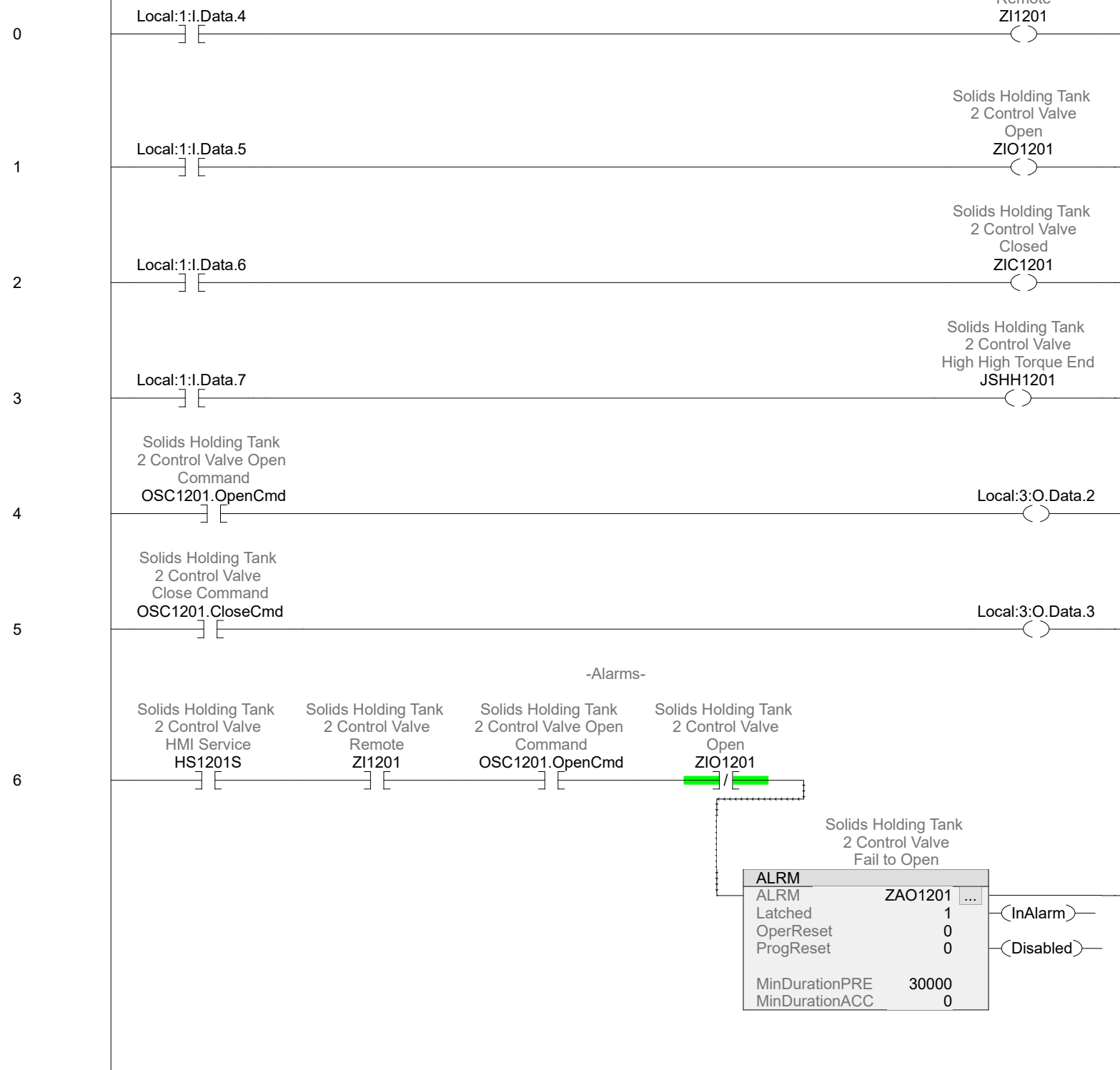
ZA1104 (Continued)			
ZA1104.InAlarmDate	0	DINT	
Sludge Feed Pump 1 E-Stop			
ZA1104.InAlarmTime	0	DINT	
Sludge Feed Pump 1 E-Stop			
ZA1104.RetToNormalDate	0	DINT	
Sludge Feed Pump 1 E-Stop			
ZA1104.RetToNormalTime	0	DINT	
Sludge Feed Pump 1 E-Stop			
ZA1104.AlarmCountResetDate	0	DINT	
Sludge Feed Pump 1 E-Stop			
ZA1104.AlarmCountResetTime	0	DINT	
Sludge Feed Pump 1 E-Stop			
ZI1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *2(OTE), 19(XIC), 9(XIC)</i>			
ZI1104A	0	BOOL	PLC_SH
Sludge Feed Pump 1 VFD Ready			
Constant	No		
External Access:	Read/Write		
<i>ZI1104A - MainProgram/L1104_SludgeFeedPump1_VFD - *1(OTE)</i>			
ZS1104	0	BOOL	PLC_SH
Sludge Feed Pump 1 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZS1104 - MainProgram/L1104_SludgeFeedPump1_VFD - 11(XIC)</i>			

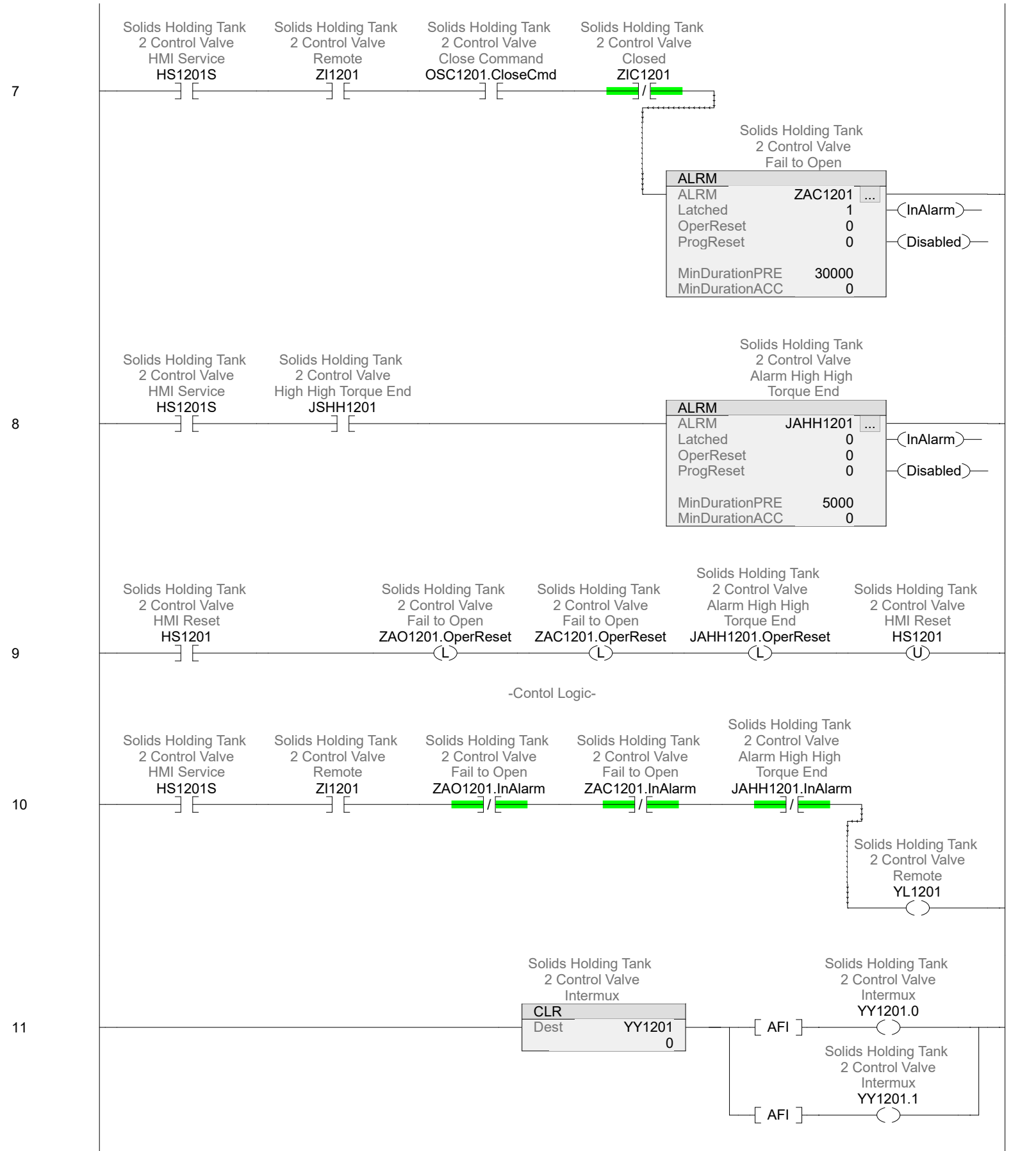
General

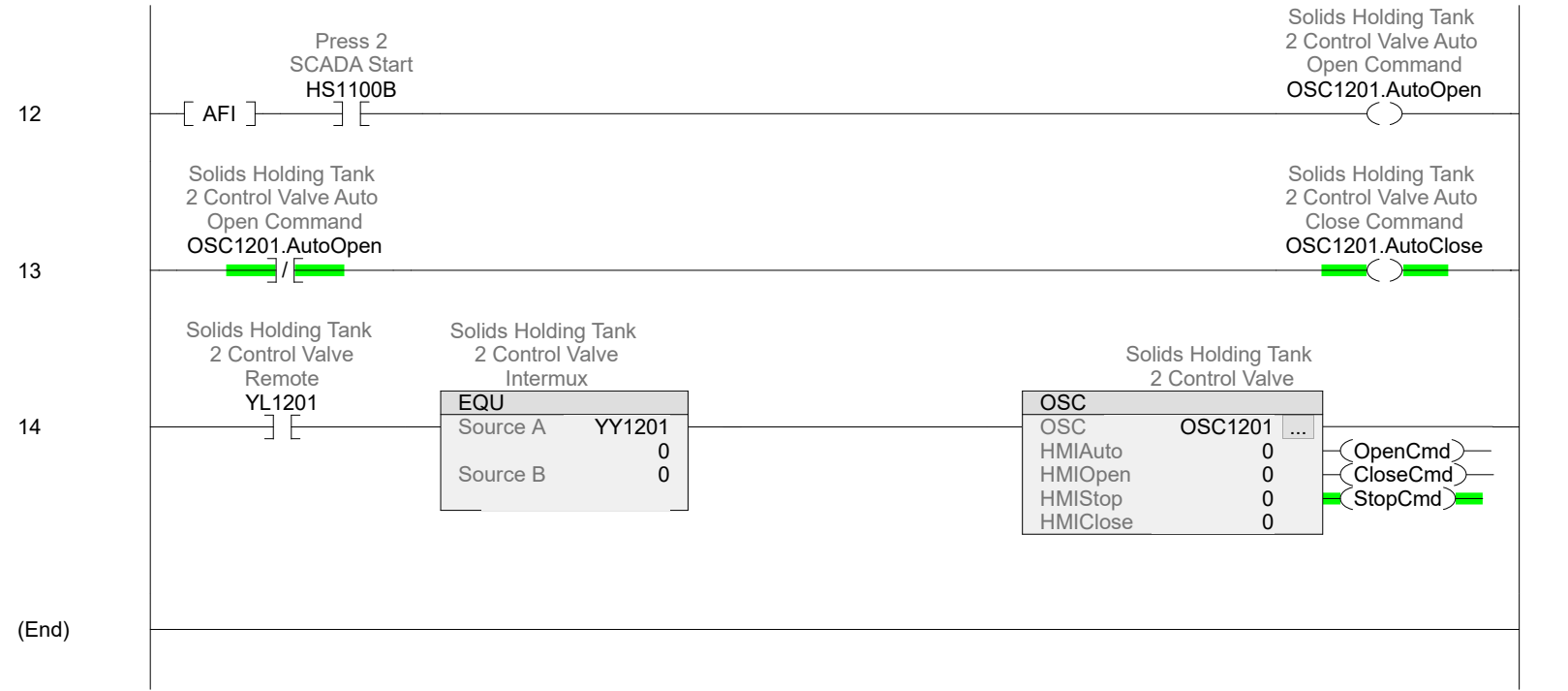
Type:	 Ladder Diagram	Number of Rungs:	34
In Program:	 MainProgram		

Solids Holding Tank 2 Control Valve
(V-1201)

-Discrete I/O Mapping-







Name	Value	Data Type	Scope
HS1100B	0	BOOL	PLC_SH
Press 2 SCADA Start			
Constant	No		
External Access:	Read/Write		
<i>HS1100B - MainProgram/Communications - 16(XIC), 17(XIO)</i>			
<i>HS1100B - MainProgram/L1100_PressControl - *6(OTU), 6(XIC)</i>			
<i>HS1100B - MainProgram/L1201_SHT2_ControlValve - 12(XIC)</i>			
HS1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS1201 - MainProgram/L1201_SHT2_ControlValve - *9(OTU), 9(XIC)</i>			
HS1201S	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS1201S - MainProgram/L1201_SHT2_ControlValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
JAHH1201		ALRM	PLC_SH
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JAHH1201 - MainProgram/L1201_SHT2_ControlValve - *8(ALRM)</i>			
JAHH1201.EnableIn	0	BOOL	
Solids Holding Tank 2 Control Valve Alarm High High Torque End Enable Input - System Defined Parameter			
JAHH1201.EnableOut	0	BOOL	
Solids Holding Tank 2 Control Valve Alarm High High Torque End Enable Output - System Defined Parameter			
JAHH1201.Latched	0	BOOL	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.OperReset	0	BOOL	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
<i>JAHH1201.OperReset - MainProgram/L1201_SHT2_ControlValve - *9(OTL)</i>			
JAHH1201.ProgReset	0	BOOL	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.OperDisable	0	BOOL	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.OperEnable	0	BOOL	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.AlarmCountReset	0	BOOL	
Solids Holding Tank 2 Control Valve Alarm High High Torque End Set to 1 to reset alarm count			
JAHH1201.InAlarm	0	BOOL	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
<i>JAHH1201.InAlarm - MainProgram/L1201_SHT2_ControlValve - 10(XIO)</i>			
JAHH1201.Disabled	0	BOOL	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.MinDurationPRE	5000	DINT	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.MinDurationACC	0	DINT	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.AlarmCount	0	DINT	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.InAlarmDate	0	DINT	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.InAlarmTime	0	DINT	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.RefToNormalDate	0	DINT	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.RefToNormalTime	0	DINT	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JAHH1201.AlarmCountResetDate	0	DINT	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			

JAHH1201 (Continued)			
JAHH1201.AlarmCountResetTime	0	DINT	
Solids Holding Tank 2 Control Valve Alarm High High Torque End			
JSHH1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH1201 - MainProgram/L1201_SHT2_ControlValve - *3(OTE), 8(XIC)</i>			
Local:1:I		AB:1769_DI16:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:1:I.Data.0	0	BOOL	
<i>Local:1:I.Data.0 - MainProgram/L1101_SHT1_ControlValve - 0(XIC)</i>			
Local:1:I.Data.1	0	BOOL	
<i>Local:1:I.Data.1 - MainProgram/L1101_SHT1_ControlValve - 1(XIC)</i>			
Local:1:I.Data.2	0	BOOL	
<i>Local:1:I.Data.2 - MainProgram/L1101_SHT1_ControlValve - 2(XIC)</i>			
Local:1:I.Data.3	0	BOOL	
<i>Local:1:I.Data.3 - MainProgram/L1101_SHT1_ControlValve - 3(XIC)</i>			
Local:1:I.Data.4	0	BOOL	
<i>Local:1:I.Data.4 - MainProgram/L1201_SHT2_ControlValve - 0(XIC)</i>			
Local:1:I.Data.5	0	BOOL	
<i>Local:1:I.Data.5 - MainProgram/L1201_SHT2_ControlValve - 1(XIC)</i>			
Local:1:I.Data.6	0	BOOL	
<i>Local:1:I.Data.6 - MainProgram/L1201_SHT2_ControlValve - 2(XIC)</i>			
Local:1:I.Data.7	0	BOOL	
<i>Local:1:I.Data.7 - MainProgram/L1201_SHT2_ControlValve - 3(XIC)</i>			
Local:1:I.Data.8	0	BOOL	
<i>Local:1:I.Data.8 - MainProgram/L2101_Press1_SludgeValve - 0(XIC)</i>			
Local:1:I.Data.9	0	BOOL	
<i>Local:1:I.Data.9 - MainProgram/L2101_Press1_SludgeValve - 1(XIC)</i>			
Local:1:I.Data.10	0	BOOL	
<i>Local:1:I.Data.10 - MainProgram/L2101_Press1_SludgeValve - 2(XIC)</i>			
Local:1:I.Data.11	0	BOOL	
<i>Local:1:I.Data.11 - MainProgram/L2101_Press1_SludgeValve - 3(XIC)</i>			
Local:1:I.Data.12	0	BOOL	
<i>Local:1:I.Data.12 - MainProgram/L2201_Press2_SludgeValve - 0(XIC)</i>			
Local:1:I.Data.13	0	BOOL	
<i>Local:1:I.Data.13 - MainProgram/L2201_Press2_SludgeValve - 1(XIC)</i>			
Local:1:I.Data.14	0	BOOL	
<i>Local:1:I.Data.14 - MainProgram/L2201_Press2_SludgeValve - 2(XIC)</i>			
Local:1:I.Data.15	0	BOOL	
<i>Local:1:I.Data.15 - MainProgram/L2201_Press2_SludgeValve - 3(XIC)</i>			
Local:3:O		AB:1769_DO8:O:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:3:O.Data.0	0	BOOL	
<i>Local:3:O.Data.0 - MainProgram/L1101_SHT1_ControlValve - *4(OTE)</i>			
Local:3:O.Data.1	0	BOOL	
<i>Local:3:O.Data.1 - MainProgram/L1101_SHT1_ControlValve - *5(OTE)</i>			
Local:3:O.Data.2	0	BOOL	
<i>Local:3:O.Data.2 - MainProgram/L1201_SHT2_ControlValve - *4(OTE)</i>			
Local:3:O.Data.3	0	BOOL	
<i>Local:3:O.Data.3 - MainProgram/L1201_SHT2_ControlValve - *5(OTE)</i>			
Local:3:O.Data.4	0	BOOL	
<i>Local:3:O.Data.4 - MainProgram/L2101_Press1_SludgeValve - *4(OTE)</i>			
Local:3:O.Data.5	0	BOOL	
<i>Local:3:O.Data.5 - MainProgram/L2101_Press1_SludgeValve - *5(OTE)</i>			
<i>Local:3:O.Data.5 - MainProgram/L2201_Press2_SludgeValve - *4(OTE)</i>			
Local:3:O.Data.6	0	BOOL	
<i>Local:3:O.Data.6 - MainProgram/L2201_Press2_SludgeValve - *5(OTE)</i>			

OSC1201		OSC	PLC_SH
Solids Holding Tank 2 Control Valve			
Constant	No		
External Access:	Read/Write		
<i>OSC1201 - MainProgram/L1201_SHT2_ControlValve - *14(OSC)</i>			
OSC1201.EnableIn	0	BOOL	
Solids Holding Tank 2 Control Valve Enable Input - System Defined Parameter			
OSC1201.EnableOut	0	BOOL	
Solids Holding Tank 2 Control Valve Enable Output - System Defined Parameter			
OSC1201.HMIAuto	0	BOOL	
Solids Holding Tank 2 Control Valve HMI Auto			
OSC1201.AutoOpen	0	BOOL	
Solids Holding Tank 2 Control Valve Auto Open Command			
<i>OSC1201.AutoOpen - MainProgram/L1201_SHT2_ControlValve - *12(OTE), 13(XIO)</i>			
OSC1201.HMIOpen	0	BOOL	
Solids Holding Tank 2 Control Valve HMI Manual Open			
OSC1201.HMIStop	0	BOOL	
Solids Holding Tank 2 Control Valve HMI Manual Stop			
OSC1201.HMIClose	0	BOOL	
Solids Holding Tank 2 Control Valve HMI Manual Close			
OSC1201.OpenCmd	0	BOOL	
Solids Holding Tank 2 Control Valve Open Command			
<i>OSC1201.OpenCmd - MainProgram/L1201_SHT2_ControlValve - 4(XIC), 6(XIC)</i>			
OSC1201.AutoClose	1	BOOL	
Solids Holding Tank 2 Control Valve Auto Close Command			
<i>OSC1201.AutoClose - MainProgram/L1201_SHT2_ControlValve - *13(OTE)</i>			
OSC1201.AutoStop	0	BOOL	
Solids Holding Tank 2 Control Valve Auto Stop Command			
OSC1201.CloseCmd	0	BOOL	
Solids Holding Tank 2 Control Valve Close Command			
<i>OSC1201.CloseCmd - MainProgram/L1201_SHT2_ControlValve - 5(XIC), 7(XIC)</i>			
OSC1201.StopCmd	1	BOOL	
Solids Holding Tank 2 Control Valve Stop Command			
YL1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>YL1201 - MainProgram/L1201_SHT2_ControlValve - *10(OTE), 14(XIC)</i>			
YY1201	0	DINT	PLC_SH
Solids Holding Tank 2 Control Valve Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY1201 - MainProgram/L1201_SHT2_ControlValve - *11(CLR), 14(EQU)</i>			
YY1201.0	0	BOOL	
Solids Holding Tank 2 Control Valve Intermux			
<i>YY1201.0 - MainProgram/L1201_SHT2_ControlValve - *11(OTE)</i>			
YY1201.1	0	BOOL	
Solids Holding Tank 2 Control Valve Intermux			
<i>YY1201.1 - MainProgram/L1201_SHT2_ControlValve - *11(OTE)</i>			
ZAC1201		ALRM	PLC_SH
Solids Holding Tank 2 Control Valve Fail to Open			
Constant	No		
External Access:	Read/Write		
<i>ZAC1201 - MainProgram/L1201_SHT2_ControlValve - *7(ALRM)</i>			
ZAC1201.EnableIn	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open Enable Input - System Defined Parameter			
ZAC1201.EnableOut	0	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open Enable Output - System Defined Parameter			
ZAC1201.Latched	1	BOOL	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAC1201.OperReset	0	BOOL	

ZAC1201 (Continued)

Solids Holding Tank 2 Control Valve Fail to Open
*ZAC1201.OperReset - MainProgram/L1201_SHT2_ControlValve - *9(OTL)*
ZAC1201.ProgReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.OperDisable 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.OperEnable 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCountReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open Set to 1 to reset alarm count
ZAC1201.InAlarm 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.InAlarm - MainProgram/L1201_SHT2_ControlValve - 10(XIO)
ZAC1201.Disabled 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.MinDurationPRE 30000 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.MinDurationACC 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCount 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.InAlarmDate 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.InAlarmTime 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.RetToNormalDate 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.RetToNormalTime 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCountResetDate 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open
ZAC1201.AlarmCountResetTime 0 DINT
 Solids Holding Tank 2 Control Valve Fail to Open

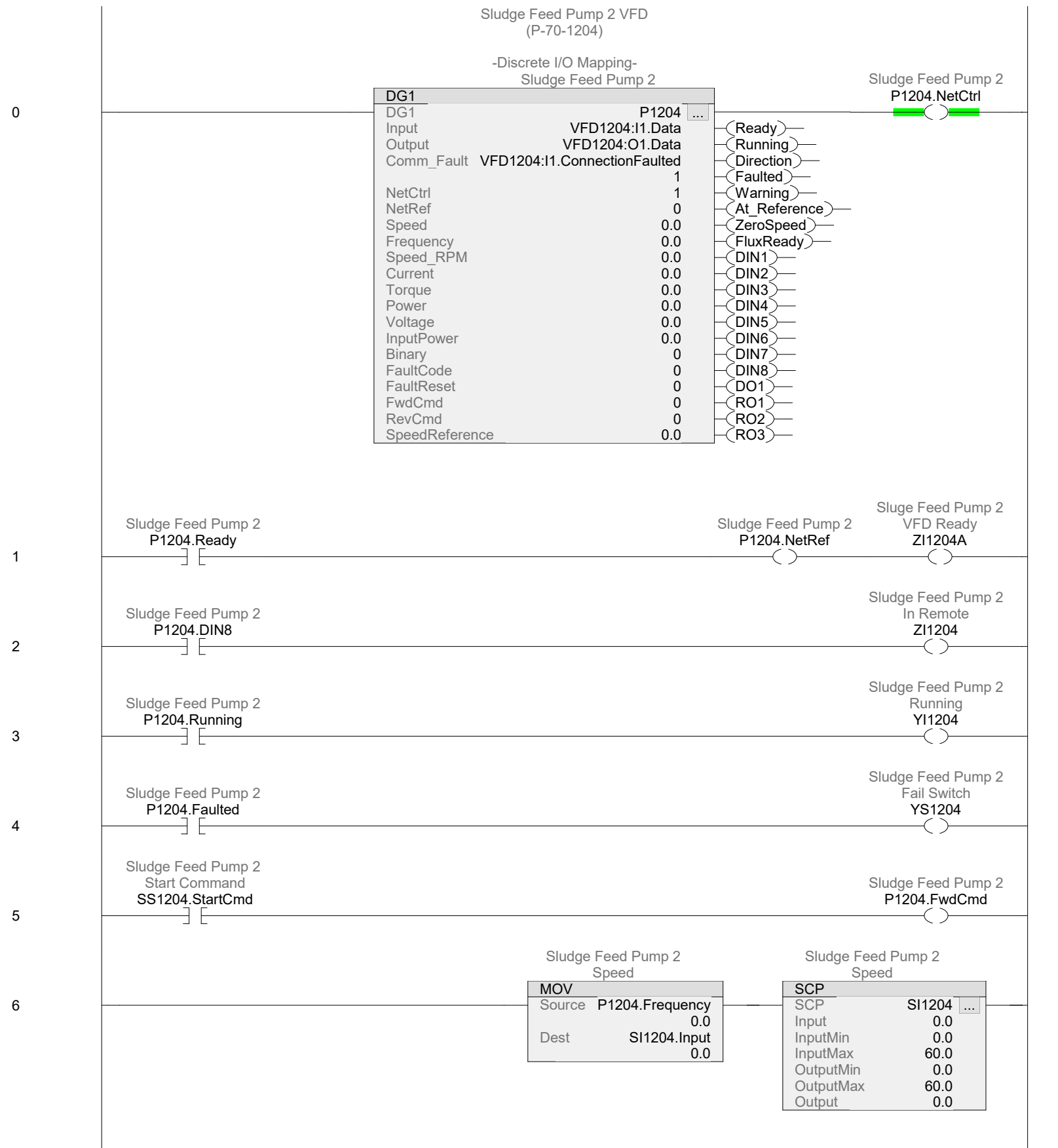
ZAO1201 ALRM PLC_SH

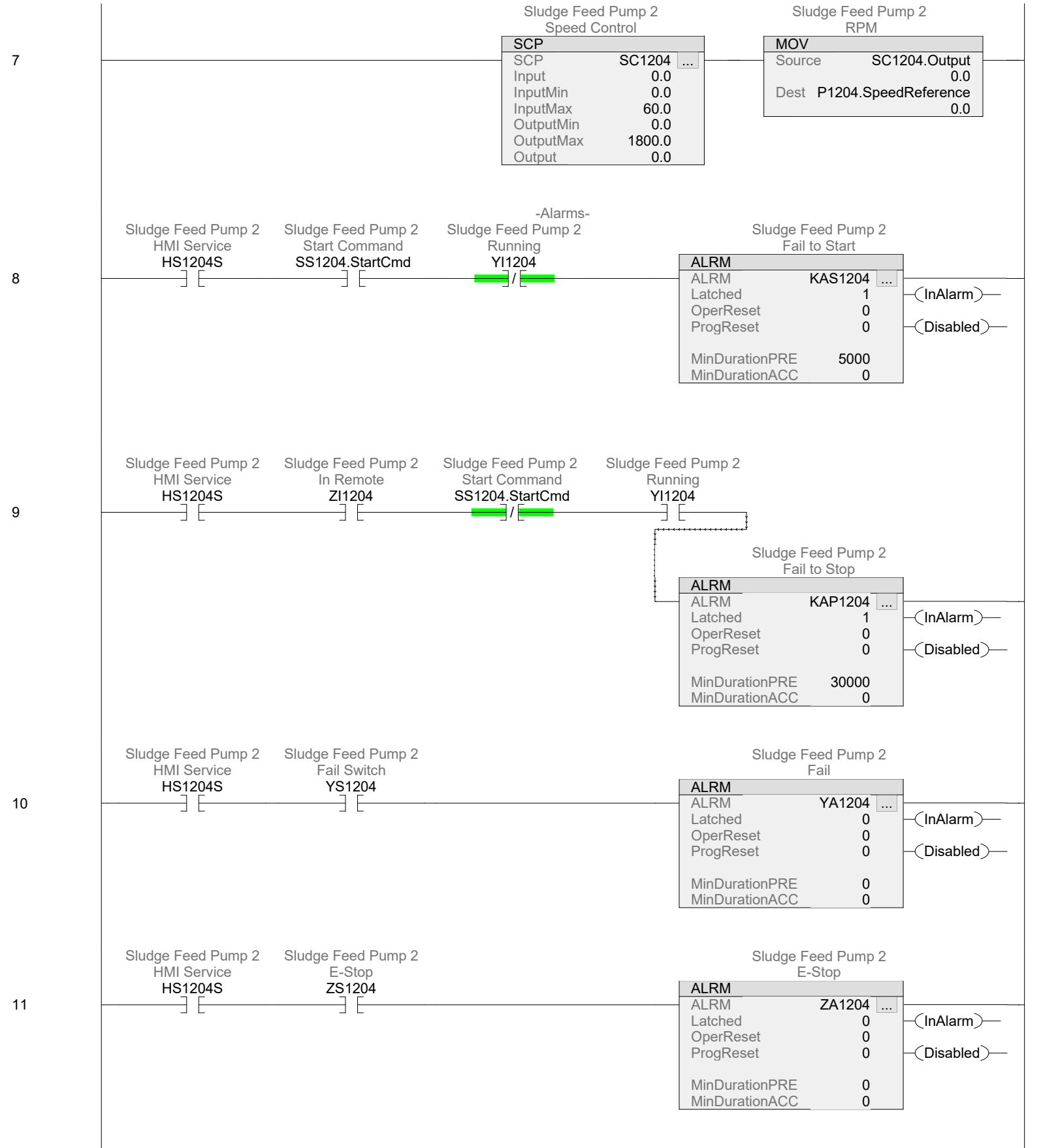
Solids Holding Tank 2 Control Valve Fail to Open
 Constant No
 External Access: Read/Write
*ZAO1201 - MainProgram/L1201_SHT2_ControlValve - *6(ALRM)*
ZAO1201.EnableIn 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open Enable Input - System Defined Parameter
ZAO1201.EnableOut 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open Enable Output - System Defined Parameter
ZAO1201.Latched 1 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAO1201.OperReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
*ZAO1201.OperReset - MainProgram/L1201_SHT2_ControlValve - *9(OTL)*
ZAO1201.ProgReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAO1201.OperDisable 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAO1201.OperEnable 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAO1201.AlarmCountReset 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open Set to 1 to reset alarm count
ZAO1201.InAlarm 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAO1201.InAlarm - MainProgram/L1201_SHT2_ControlValve - 10(XIO)
ZAO1201.Disabled 0 BOOL
 Solids Holding Tank 2 Control Valve Fail to Open
ZAO1201.MinDurationPRE 30000 DINT
 Solids Holding Tank 2 Control Valve Fail to Open

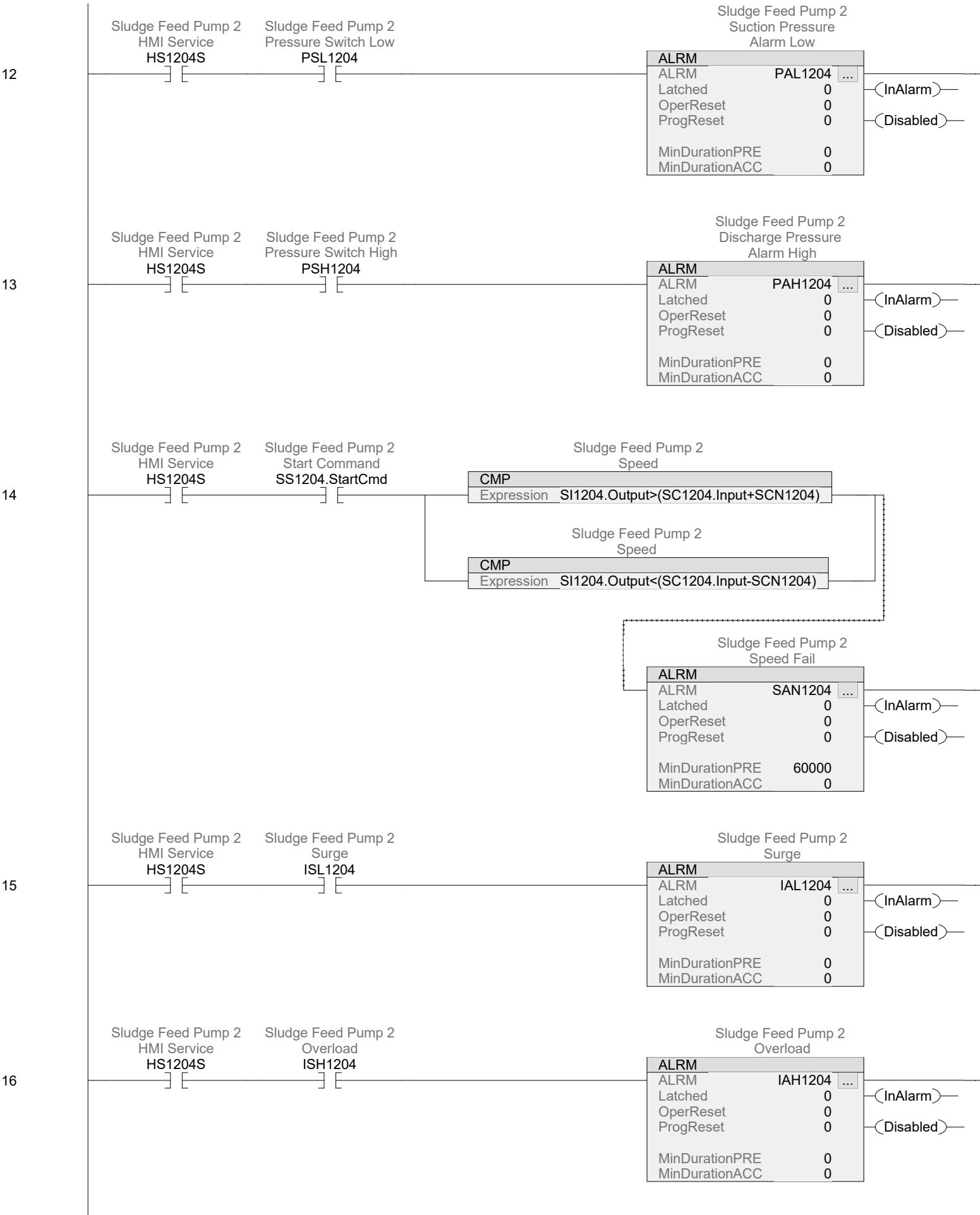
ZAO1201 (Continued)			
ZAO1201.MinDurationACC	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.AlarmCount	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.InAlarmDate	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.InAlarmTime	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.RefToNormalDate	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.RetToNormalTime	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.AlarmCountResetDate	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZAO1201.AlarmCountResetTime	0	DINT	
Solids Holding Tank 2 Control Valve Fail to Open			
ZI1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1201 - MainProgram/L1201_SHT2_ControlValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)</i>			
ZIC1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve Closed			
Constant	No		
External Access:	Read/Write		
<i>ZIC1201 - MainProgram/L1201_SHT2_ControlValve - *2(OTE), 7(XIO)</i>			
ZIO1201	0	BOOL	PLC_SH
Solids Holding Tank 2 Control Valve Open			
Constant	No		
External Access:	Read/Write		
<i>ZIO1201 - MainProgram/L1100_PressControl - 1(XIO)</i>			
<i>ZIO1201 - MainProgram/L1201_SHT2_ControlValve - *1(OTE), 6(XIO)</i>			

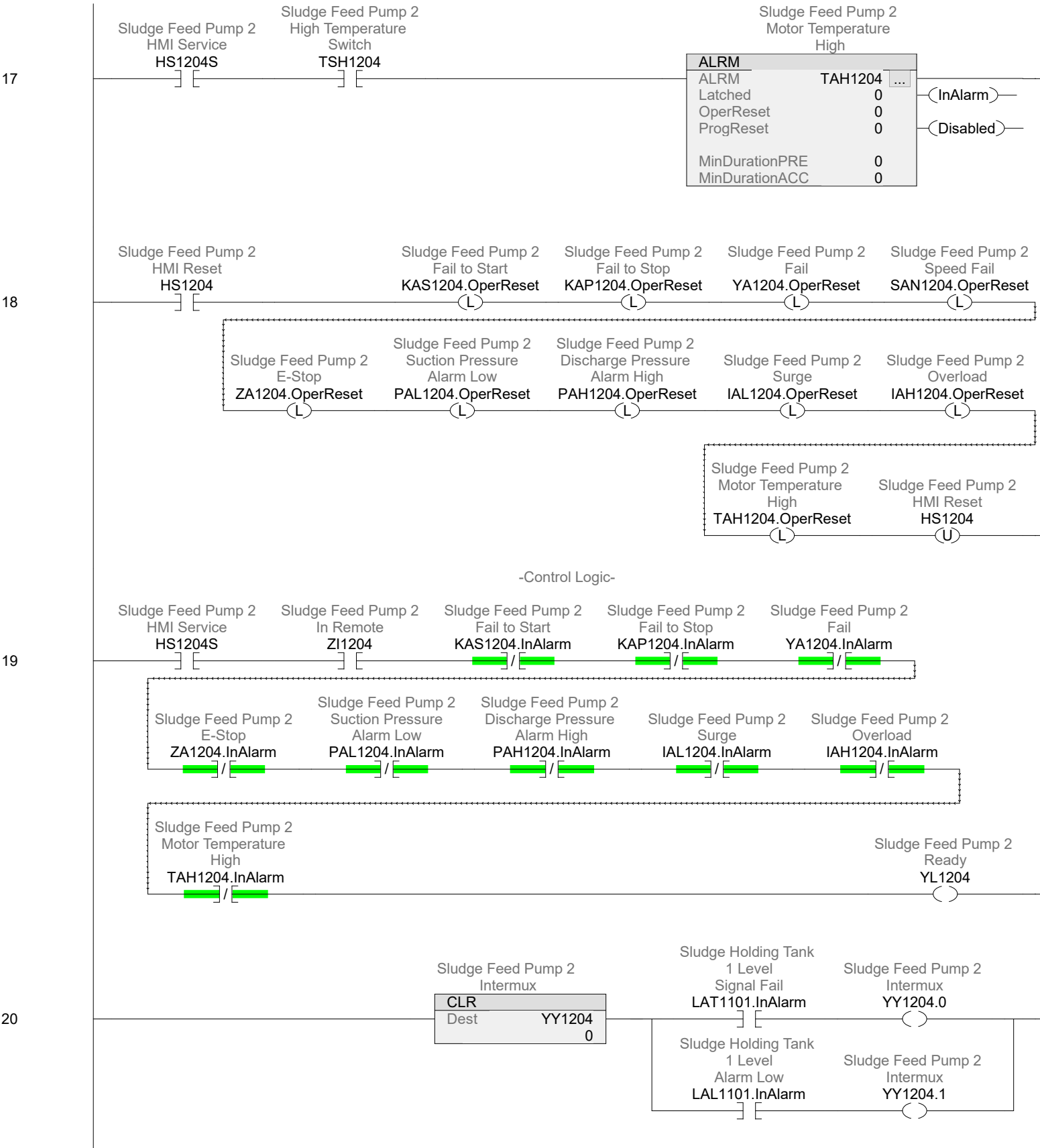
General

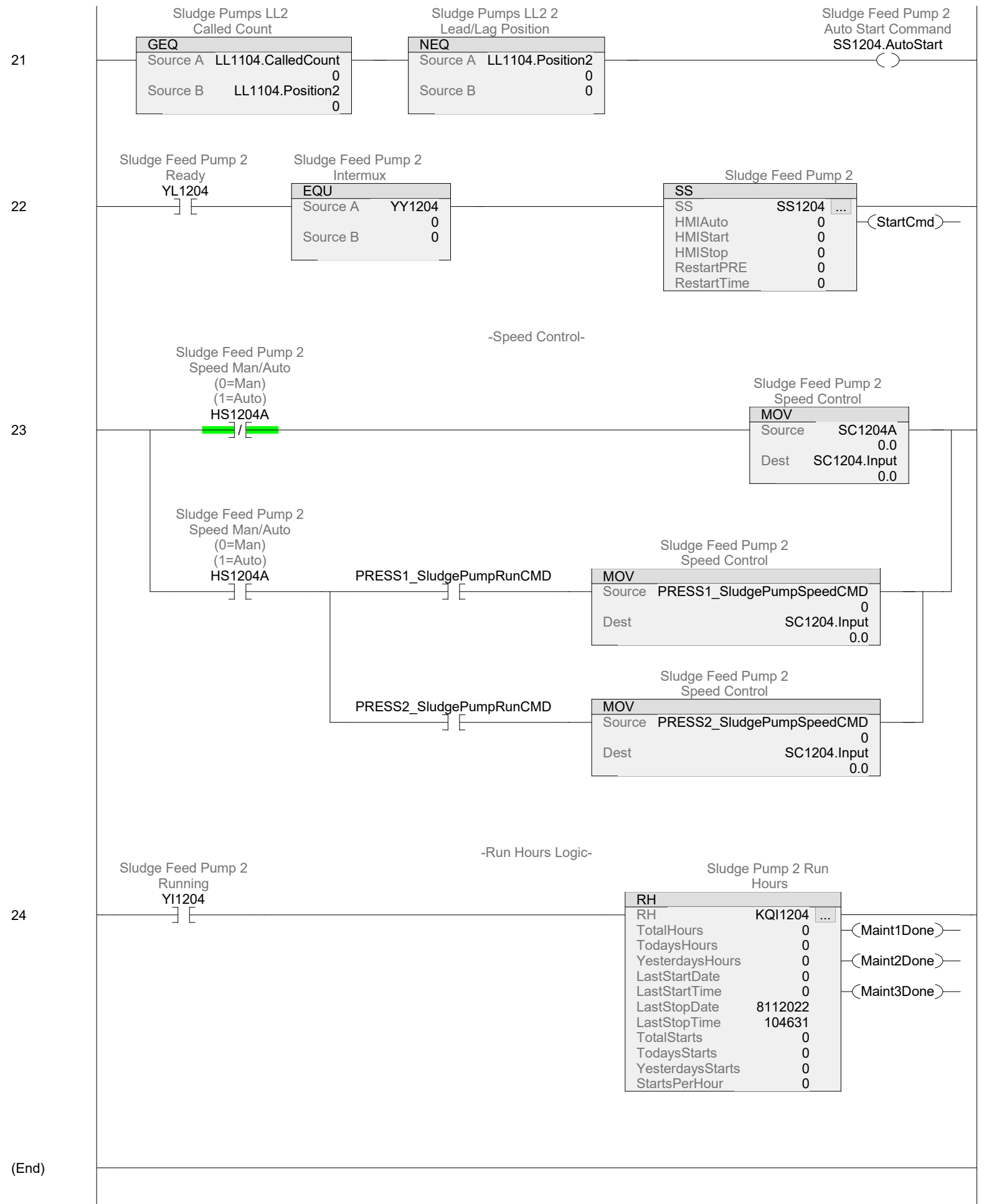
Type:	 Ladder Diagram	Number of Rungs:	15
In Program:	 MainProgram		











(End)

Name	Value	Data Type	Scope
HS1204 Sludge Feed Pump 2 HMI Reset	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>HS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTU), 18(XIC)</i>			
HS1204A Sludge Feed Pump 2 Speed Man/Auto (0=Man) (1=Auto)	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>HS1204A - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC), 23(XIO)</i>			
HS1204S Sludge Feed Pump 2 HMI Service	0	BOOL	PLC_SH
Constant	No		
External Access:	Read Only		
<i>HS1204S - MainProgram/L1204_SludgeFeedPump2_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 17(XIC), 19(XIC), 8(XIC), 9(XIC)</i>			
IAH1204 Sludge Feed Pump 2 Overload		ALRM	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>IAH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *16(ALRM)</i>			
IAH1204.EnableIn Sludge Feed Pump 2 Overload Enable Input - System Defined Parameter	0	BOOL	
IAH1204.EnableOut Sludge Feed Pump 2 Overload Enable Output - System Defined Parameter	0	BOOL	
IAH1204.Latched Sludge Feed Pump 2 Overload	0	BOOL	
IAH1204.OperReset Sludge Feed Pump 2 Overload	0	BOOL	
<i>IAH1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>			
IAH1204.ProgReset Sludge Feed Pump 2 Overload	0	BOOL	
IAH1204.OperDisable Sludge Feed Pump 2 Overload	0	BOOL	
IAH1204.OperEnable Sludge Feed Pump 2 Overload	0	BOOL	
IAH1204.AlarmCountReset Sludge Feed Pump 2 Overload Set to 1 to reset alarm count	0	BOOL	
IAH1204.InAlarm Sludge Feed Pump 2 Overload	0	BOOL	
<i>IAH1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>			
IAH1204.Disabled Sludge Feed Pump 2 Overload	0	BOOL	
IAH1204.MinDurationPRE Sludge Feed Pump 2 Overload	0	DINT	
IAH1204.MinDurationACC Sludge Feed Pump 2 Overload	0	DINT	
IAH1204.AlarmCount Sludge Feed Pump 2 Overload	0	DINT	
IAH1204.InAlarmDate Sludge Feed Pump 2 Overload	0	DINT	
IAH1204.InAlarmTime Sludge Feed Pump 2 Overload	0	DINT	
IAH1204.RetToNormalDate Sludge Feed Pump 2 Overload	0	DINT	
IAH1204.RetToNormalTime Sludge Feed Pump 2 Overload	0	DINT	
IAH1204.AlarmCountResetDate Sludge Feed Pump 2 Overload	0	DINT	
IAH1204.AlarmCountResetTime Sludge Feed Pump 2 Overload	0	DINT	

IAH1204 (Continued)			
Sludge Feed Pump 2 Overload			
IAL1204			ALRM PLC_SH
Sludge Feed Pump 2 Surge			
Constant	No		
External Access:	Read/Write		
<i>IAL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *15(ALRM)</i>			
IAL1204.EnableIn	0		BOOL
Sludge Feed Pump 2 Surge Enable Input - System Defined Parameter			
IAL1204.EnableOut	0		BOOL
Sludge Feed Pump 2 Surge Enable Output - System Defined Parameter			
IAL1204.Latched	0		BOOL
Sludge Feed Pump 2 Surge			
IAL1204.OperReset	0		BOOL
Sludge Feed Pump 2 Surge			
<i>IAL1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>			
IAL1204.ProgReset	0		BOOL
Sludge Feed Pump 2 Surge			
IAL1204.OperDisable	0		BOOL
Sludge Feed Pump 2 Surge			
IAL1204.OperEnable	0		BOOL
Sludge Feed Pump 2 Surge			
IAL1204.AlarmCountReset	0		BOOL
Sludge Feed Pump 2 Surge Set to 1 to reset alarm count			
IAL1204.InAlarm	0		BOOL
Sludge Feed Pump 2 Surge			
<i>IAL1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>			
IAL1204.Disabled	0		BOOL
Sludge Feed Pump 2 Surge			
IAL1204.MinDurationPRE	0		DINT
Sludge Feed Pump 2 Surge			
IAL1204.MinDurationACC	0		DINT
Sludge Feed Pump 2 Surge			
IAL1204.AlarmCount	0		DINT
Sludge Feed Pump 2 Surge			
IAL1204.InAlarmDate	0		DINT
Sludge Feed Pump 2 Surge			
IAL1204.InAlarmTime	0		DINT
Sludge Feed Pump 2 Surge			
IAL1204.RetToNormalDate	0		DINT
Sludge Feed Pump 2 Surge			
IAL1204.RetToNormalTime	0		DINT
Sludge Feed Pump 2 Surge			
IAL1204.AlarmCountResetDate	0		DINT
Sludge Feed Pump 2 Surge			
IAL1204.AlarmCountResetTime	0		DINT
Sludge Feed Pump 2 Surge			
ISH1204	0		BOOL PLC_SH
Sludge Feed Pump 2 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 16(XIC)</i>			
ISL1204	0		BOOL PLC_SH
Sludge Feed Pump 2 Surge			
Constant	No		
External Access:	Read/Write		
<i>ISL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 15(XIC)</i>			
KAP1204			ALRM PLC_SH
Sludge Feed Pump 2 Fail to Stop			
Constant	No		

KAP1204 (Continued)

External Access:	Read/Write	
<i>KAP1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *9(ALRM)</i>		
KAP1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Fail to Stop Enable Input - System Defined Parameter		
KAP1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Fail to Stop Enable Output - System Defined Parameter		
KAP1204.Latched	1	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.OperReset	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
<i>KAP1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
KAP1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Fail to Stop Set to 1 to reset alarm count		
KAP1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
<i>KAP1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
KAP1204.Disabled	0	BOOL
Sludge Feed Pump 2 Fail to Stop		
KAP1204.MinDurationPRE	30000	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.RefToNormalDate	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.RefToNormalTime	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Fail to Stop		
KAP1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Fail to Stop		

KAS1204 ALRM PLC_SH

Sludge Feed Pump 2 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *8(ALRM)</i>		
KAS1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Fail to Start Enable Input - System Defined Parameter		
KAS1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Fail to Start Enable Output - System Defined Parameter		
KAS1204.Latched	1	BOOL
Sludge Feed Pump 2 Fail to Start		
KAS1204.OperReset	0	BOOL
Sludge Feed Pump 2 Fail to Start		
<i>KAS1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
KAS1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Fail to Start		
KAS1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Fail to Start		
KAS1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Fail to Start		

KAS1204 (Continued)		
KAS1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Fail to Start Set to 1 to reset alarm count		
KAS1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Fail to Start		
<i>KAS1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
KAS1204.Disabled	0	BOOL
Sludge Feed Pump 2 Fail to Start		
KAS1204.MinDurationPRE	5000	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Fail to Start		
KAS1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Fail to Start		
KQI1204		RH
Sludge Pump 2 Run Hours		
Constant	No	
External Access:	Read/Write	
<i>KQI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *24(RH)</i>		
KQI1204.EnableIn	0	BOOL
Sludge Pump 2 Run Hours Enable Input - System Defined Parameter		
KQI1204.EnableOut	0	BOOL
Sludge Pump 2 Run Hours Enable Output - System Defined Parameter		
KQI1204.TotalHours	0	DINT
Sludge Pump 2 Run Hours Total ETM		
<i>KQI1204.TotalHours - MainProgram/L1104_SludgeFeedPump1_VFD - 27(MOV)</i>		
KQI1204.TodaysHours	0	DINT
Sludge Pump 2 Run Hours Today's ETM		
KQI1204.YesterdaysHours	0	DINT
Sludge Pump 2 Run Hours Yesterday's ETM		
KQI1204.LastStartDate	0	DINT
Sludge Pump 2 Run Hours Last Start Date		
KQI1204.LastStartTime	0	DINT
Sludge Pump 2 Run Hours Last Start Time		
KQI1204.LastStopDate	8112022	DINT
Sludge Pump 2 Run Hours Last Stop Date		
KQI1204.LastStopTime	104631	DINT
Sludge Pump 2 Run Hours Last Stop Time		
KQI1204.TotalStarts	0	DINT
Sludge Pump 2 Run Hours Total Starts		
KQI1204.TodaysStarts	0	DINT
Sludge Pump 2 Run Hours Today's Starts		
KQI1204.YesterdaysStarts	0	DINT
Sludge Pump 2 Run Hours Yesterday's Starts		
KQI1204.StartsPerHour	0	DINT
Sludge Pump 2 Run Hours Calculated Number of Starts per Hour		
KQI1204.HourSP	0	DINT
Sludge Pump 2 Run Hours Hour to Rollover (0 - 23)		
KQI1204.MinuteSP	0	DINT
Sludge Pump 2 Run Hours Minute to Rollover (0 - 59)		
KQI1204.HMIRreset	0	BOOL

PLC_SH

KQI1204 (Continued)		
Sludge Pump 2 Run Hours		
KQI1204.Maint1Hours	0	DINT
Sludge Pump 2 Run Hours Maintenance 1 Hours		
KQI1204.Maint2Hours	0	DINT
Sludge Pump 2 Run Hours Maintenance 2 Hours		
KQI1204.Maint3Hours	0	DINT
Sludge Pump 2 Run Hours Maintenance 3 Hours		
KQI1204.Maint1Done	0	BOOL
Sludge Pump 2 Run Hours Maintenance 1 Due		
KQI1204.Maint2Done	0	BOOL
Sludge Pump 2 Run Hours Maintenance 2 Due		
KQI1204.Maint3Done	0	BOOL
Sludge Pump 2 Run Hours Maintenance 3 Due		
KQI1204.Maint1SP	50000	DINT
Sludge Pump 2 Run Hours Maintenance 1 Hours SP		
KQI1204.Maint2SP	50000	DINT
Sludge Pump 2 Run Hours Maintenance 2 Hours SP		
KQI1204.Maint3SP	50000	DINT
Sludge Pump 2 Run Hours Maintenance 3 Hours SP		
LAL1101		ALRM
Sludge Holding Tank 1 Level Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>LAL1101 - MainProgram/L1101_SHT1_Level - *3(ALRM)</i>		
LAL1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Input - System Defined Parameter		
LAL1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Output - System Defined Parameter		
LAL1101.Latched	1	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAL1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Set to 1 to reset alarm count		
LAL1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.InAlarm - MainProgram/L1100_PressControl - 0(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>		
LAL1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		

PLC_SH

LAL1101 (Continued)		
LAL1101.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAT1101		ALRM PLC_SH
Sludge Holding Tank 1 Level Signal Fail		
Constant	No	
External Access:	Read/Write	
<i>LAT1101 - MainProgram/L1101_SHT1_Level - *1(ALRM)</i>		
LAT1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Enable Input - System Defined Parameter		
LAT1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Enable Output - System Defined Parameter		
LAT1101.Latched	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
<i>LAT1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAT1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Set to 1 to reset alarm count		
LAT1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
<i>LAT1101.InAlarm - MainProgram/L1101_SHT1_Level - 2(XIO), 3(XIO)</i>		
<i>LAT1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>		
LAT1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.MinDurationPRE	5000	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.RetToNormalTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LL1104		LL PLC_SH
Sludge Pumps LL2		
Constant	No	
External Access:	Read/Write	
<i>LL1104 - MainProgram/L1104_SludgeFeedPump1_VFD - *33(LL)</i>		
LL1104.EnableIn	1	BOOL

LL1104 (Continued)

Sludge Pumps LL2 Enable Input - System Defined Parameter		
LL1104.EnableOut	1	BOOL
Sludge Pumps LL2 Enable Output - System Defined Parameter		
LL1104.AlternationMode	0	DINT
Sludge Pumps LL2 Alternation Mode		
LL1104.AlternationPRE	2400	DINT
Sludge Pumps LL2 Alternation Time Preset (0.01 HRS)		
LL1104.AlternationACC	0	DINT
Sludge Pumps LL2 Alternation Time Accumulated (0.01 HRS)		
LL1104.NextCall	0	DINT
Sludge Pumps LL2 (1)Increase Call (0)No Call (-1)Decrease Call		
<i>LL1104.NextCall - MainProgram/L1104_SludgeFeedPump1_VFD - *29(CLR), *30(MOV), *31(MOV), *32(CLR)</i>		
LL1104.NextCallCountDown	0	DINT
Sludge Pumps LL2 Next Call Count Down (Milliseconds)		
LL1104.NextCalled	0	DINT
Sludge Pumps LL2 (Equipment Number)		
LL1104.CalledCount	0	DINT
Sludge Pumps LL2 Called Count		
<i>LL1104.CalledCount - MainProgram/L1104_SludgeFeedPump1_VFD - *32(CLR), 21(GEQ)</i>		
<i>LL1104.CalledCount - MainProgram/L1204_SludgeFeedPump2_VFD - 21(GEQ)</i>		
LL1104.ReadyCount	0	DINT
Sludge Pumps LL2 Ready Count		
LL1104.OnCountTotal	0	DINT
Sludge Pumps LL2 Total On Count		
LL1104.OnCountAuto	0	DINT
Sludge Pumps LL2 Auto On Count		
LL1104.OnCountMax	1	DINT
Sludge Pumps LL2 Maximum On Count		
LL1104.Ready1	0	BOOL
Sludge Pumps LL2 1 Ready		
<i>LL1104.Ready1 - MainProgram/Communications - 19(XIO), 4(XIO)</i>		
<i>LL1104.Ready1 - MainProgram/L1100_PressControl - 0(XIO), 1(XIO)</i>		
<i>LL1104.Ready1 - MainProgram/L1104_SludgeFeedPump1_VFD - *25(OTE)</i>		
LL1104.Ready2	0	BOOL
Sludge Pumps LL2 2 Ready		
<i>LL1104.Ready2 - MainProgram/Communications - 19(XIO), 4(XIO)</i>		
<i>LL1104.Ready2 - MainProgram/L1100_PressControl - 0(XIO), 1(XIO)</i>		
<i>LL1104.Ready2 - MainProgram/L1104_SludgeFeedPump1_VFD - *26(OTE)</i>		
LL1104.Ready3	0	BOOL
Sludge Pumps LL2 3 Ready		
<i>LL1104.Ready3 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready4	0	BOOL
Sludge Pumps LL2 4 Ready		
<i>LL1104.Ready4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready5	0	BOOL
Sludge Pumps LL2 5 Ready		
<i>LL1104.Ready5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.Ready6	0	BOOL
Sludge Pumps LL2 6 Ready		
<i>LL1104.Ready6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.RunHours1	0	DINT
Sludge Pumps LL2 1 Total ETM		
<i>LL1104.RunHours1 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours2	0	DINT
Sludge Pumps LL2 2 Total ETM		
<i>LL1104.RunHours2 - MainProgram/L1104_SludgeFeedPump1_VFD - *27(MOV)</i>		
LL1104.RunHours3	0	DINT
Sludge Pumps LL2 3 Total ETM		
LL1104.RunHours4	0	DINT
Sludge Pumps LL2 4 Total ETM		
LL1104.RunHours5	0	DINT
Sludge Pumps LL2 5 Total ETM		
LL1104.RunHours6	0	DINT

LL1104 (Continued)

Sludge Pumps LL2 6 Total ETM		
LL1104.Position1SP	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position SP		
LL1104.Position2SP	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position SP		
LL1104.Position3SP	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position SP		
LL1104.Position4SP	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position SP		
LL1104.Position5SP	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position SP		
LL1104.Position6SP	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position SP		
LL1104.Position1	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position		
<i>LL1104.Position1 - MainProgram/L1104_SluggeFeedPump1_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position2	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position		
<i>LL1104.Position2 - MainProgram/L1204_SluggeFeedPump2_VFD - 21(GEQ), 21(NEQ)</i>		
LL1104.Position3	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position		
LL1104.Position4	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position		
LL1104.Position5	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position		
LL1104.Position6	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position		
LL1104.Delay0_1	5000	DINT
Sludge Pumps LL2 Call On 0 to 1 Delay (Milliseconds)		
LL1104.Delay1_2	10000	DINT
Sludge Pumps LL2 Call On 1 to 2 Delay (Milliseconds)		
LL1104.Delay2_3	15000	DINT
Sludge Pumps LL2 Call On 2 to 3 Delay (Milliseconds)		
LL1104.Delay3_4	20000	DINT
Sludge Pumps LL2 Call On 3 to 4 Delay (Milliseconds)		
LL1104.Delay4_5	25000	DINT
Sludge Pumps LL2 Call On 4 to 5 Delay (Milliseconds)		
LL1104.Delay5_6	30000	DINT
Sludge Pumps LL2 Call On 5 to 6 Delay (Milliseconds)		
LL1104.Delay6_5	30000	DINT
Sludge Pumps LL2 Call Off 6 to 5 Delay (Milliseconds)		
LL1104.Delay5_4	25000	DINT
Sludge Pumps LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL1104.Delay4_3	20000	DINT
Sludge Pumps LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL1104.Delay3_2	15000	DINT
Sludge Pumps LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL1104.Delay2_1	10000	DINT
Sludge Pumps LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL1104.Delay1_0	5000	DINT
Sludge Pumps LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL1104.MaxOn	0	BOOL
Sludge Pumps LL2 Maximum Number of Devices are Running		
<i>LL1104.MaxOn - MainProgram/L1104_SluggeFeedPump1_VFD - 30(XIO)</i>		
LL1104.On1	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On1 - MainProgram/L1104_SluggeFeedPump1_VFD - *25(OTE)</i>		
LL1104.On2	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On2 - MainProgram/L1104_SluggeFeedPump1_VFD - *26(OTE)</i>		
LL1104.On3	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On3 - MainProgram/L1104_SluggeFeedPump1_VFD - *28(OTU)</i>		

LL1104 (Continued)		
LL1104.On4	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On4 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On5	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On5 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.On6	0	BOOL
Sludge Pumps LL2		
<i>LL1104.On6 - MainProgram/L1104_SludgeFeedPump1_VFD - *28(OTU)</i>		
LL1104.CountUpOS	0	BOOL
Sludge Pumps LL2		
LL1104.CountDownOS	0	BOOL
Sludge Pumps LL2		
P1204		DG1
Sludge Feed Pump 2		
Constant	No	
External Access:	Read/Write	
<i>P1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *0(DG1)</i>		
P1204.EnableIn	1	BOOL
Sludge Feed Pump 2 Enable Input - System Defined Parameter		
P1204.EnableOut	1	BOOL
Sludge Feed Pump 2 Enable Output - System Defined Parameter		
P1204.Comm_Fault	1	BOOL
Sludge Feed Pump 2		
P1204.NetCtrl	1	BOOL
Sludge Feed Pump 2		
<i>P1204.NetCtrl - MainProgram/L1204_SludgeFeedPump2_VFD - *0(OTE)</i>		
P1204.NetRef	0	BOOL
Sludge Feed Pump 2		
<i>P1204.NetRef - MainProgram/L1204_SludgeFeedPump2_VFD - *1(OTE)</i>		
P1204.Ready	0	BOOL
Sludge Feed Pump 2		
<i>P1204.Ready - MainProgram/L1204_SludgeFeedPump2_VFD - 1(XIC)</i>		
P1204.Running	0	BOOL
Sludge Feed Pump 2		
<i>P1204.Running - MainProgram/L1204_SludgeFeedPump2_VFD - 3(XIC)</i>		
P1204.Direction	0	BOOL
Sludge Feed Pump 2		
P1204.Faulted	0	BOOL
Sludge Feed Pump 2		
<i>P1204.Faulted - MainProgram/L1204_SludgeFeedPump2_VFD - 4(XIC)</i>		
P1204.Warning	0	BOOL
Sludge Feed Pump 2		
P1204.At_Reference	0	BOOL
Sludge Feed Pump 2		
P1204.ZeroSpeed	0	BOOL
Sludge Feed Pump 2		
P1204.FluxReady	0	BOOL
Sludge Feed Pump 2		
P1204.Speed	0.0	REAL
Sludge Feed Pump 2		
P1204.Frequency	0.0	REAL
Sludge Feed Pump 2		
<i>P1204.Frequency - MainProgram/L1204_SludgeFeedPump2_VFD - 6(MOV)</i>		
P1204.Speed_RPM	0.0	REAL
Sludge Feed Pump 2		
P1204.Current	0.0	REAL
Sludge Feed Pump 2		
P1204.Torque	0.0	REAL
Sludge Feed Pump 2		
P1204.Power	0.0	REAL
Sludge Feed Pump 2		

PLC_SH

P1204 (Continued)		
P1204.Voltage	0.0	REAL
Sludge Feed Pump 2		
P1204.InputPower	0.0	REAL
Sludge Feed Pump 2		
P1204.DIN1	0	BOOL
Sludge Feed Pump 2		
P1204.DIN2	0	BOOL
Sludge Feed Pump 2		
P1204.DIN3	0	BOOL
Sludge Feed Pump 2		
P1204.DIN4	0	BOOL
Sludge Feed Pump 2		
P1204.DIN5	0	BOOL
Sludge Feed Pump 2		
P1204.DIN6	0	BOOL
Sludge Feed Pump 2		
P1204.DIN7	0	BOOL
Sludge Feed Pump 2		
P1204.DIN8	0	BOOL
Sludge Feed Pump 2		
<i>P1204.DIN8 - MainProgram/L1204_SludgeFeedPump2_VFD - 2(XIC)</i>		
P1204.DO1	0	BOOL
Sludge Feed Pump 2		
P1204.RO1	0	BOOL
Sludge Feed Pump 2		
P1204.RO2	0	BOOL
Sludge Feed Pump 2		
P1204.RO3	0	BOOL
Sludge Feed Pump 2		
P1204.Binary	0	DINT
Sludge Feed Pump 2		
P1204.FaultCode	0	DINT
Sludge Feed Pump 2		
P1204.FaultReset	0	BOOL
Sludge Feed Pump 2		
P1204.SpeedPercentFactor	100	DINT
Sludge Feed Pump 2		
P1204.FrequencyFactor	10	DINT
Sludge Feed Pump 2		
P1204.SpeedRPMFactor	1	DINT
Sludge Feed Pump 2		
P1204.CurrentFactor	10	DINT
Sludge Feed Pump 2		
P1204.TorqueFactor	10	DINT
Sludge Feed Pump 2		
P1204.PowerFactor	1	DINT
Sludge Feed Pump 2		
P1204.FwdCmd	0	BOOL
Sludge Feed Pump 2		
<i>P1204.FwdCmd - MainProgram/L1204_SludgeFeedPump2_VFD - *5(OTE)</i>		
P1204.RevCmd	0	BOOL
Sludge Feed Pump 2		
P1204.ReferenceFactor	10	DINT
Sludge Feed Pump 2 Speed Reference Scale Factor (10)		
P1204.SpeedReference	0.0	REAL
Sludge Feed Pump 2 RPM		
<i>P1204.SpeedReference - MainProgram/L1204_SludgeFeedPump2_VFD - *7(MOV)</i>		
PAH1204		ALRM
Sludge Feed Pump 2 Discharge Pressure Alarm High		
Constant	No	
External Access:	Read/Write	
<i>PAH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *13(ALRM)</i>		

PLC_SH

PAH1204 (Continued)

PAH1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High Enable Input - System Defined Parameter		
PAH1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High Enable Output - System Defined Parameter		
PAH1204.Latched	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.OperReset	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
<i>PAH1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
PAH1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
<i>PAH1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
PAH1204.Disabled	0	BOOL
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCountResetDate	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		
PAH1204.AlarmCountResetTime	0	DINT
Sludge Feed Pump 2 Discharge Pressure Alarm High		

PAL1204 ALRM PLC_SH

Sludge Feed Pump 2 Suction Pressure Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>PAL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *12(ALRM)</i>		
PAL1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low Enable Input - System Defined Parameter		
PAL1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low Enable Output - System Defined Parameter		
PAL1204.Latched	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.OperReset	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
<i>PAL1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
PAL1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low		
PAL1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Suction Pressure Alarm Low Set to 1 to reset alarm count		

PAL1204 (Continued)			
PAL1204.InAlarm	0	BOOL	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
<i>PAL1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>			
PAL1204.Disabled	0	BOOL	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
PAL1204.MinDurationPRE	0	DINT	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
PAL1204.MinDurationACC	0	DINT	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
PAL1204.AlarmCount	0	DINT	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
PAL1204.InAlarmDate	0	DINT	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
PAL1204.InAlarmTime	0	DINT	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
PAL1204.RetToNormalDate	0	DINT	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
PAL1204.RetToNormalTime	0	DINT	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
PAL1204.AlarmCountResetDate	0	DINT	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
PAL1204.AlarmCountResetTime	0	DINT	
Sludge Feed Pump 2 Suction Pressure Alarm Low			
PRESS1_SludgePumpRunCMD	0	BOOL	PLC_SH
Constant No			
External Access: Read/Write			
<i>PRESS1_SludgePumpRunCMD - MainProgram/Communications - *8(OTE), 30(XIC), 32(XIC), 32(XIO)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>			
<i>PRESS1_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>			
PRESS1_SludgePumpSpeedCMD	0	DINT	PLC_SH
Press 1 Sludge Pump Speed Command (HZ 1 implied decimal)			
Constant No			
External Access: Read/Write			
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/Communications - *11(MOV), 32(MOV)</i>			
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>			
<i>PRESS1_SludgePumpSpeedCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>			
PRESS2_SludgePumpRunCMD	0	BOOL	PLC_SH
Constant No			
External Access: Read/Write			
<i>PRESS2_SludgePumpRunCMD - MainProgram/Communications - *23(OTE), 30(XIC), 32(XIC), 32(XIO)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(XIC)</i>			
<i>PRESS2_SludgePumpRunCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(XIC)</i>			
PRESS2_SludgePumpSpeedCMD	0	DINT	PLC_SH
Press 2 Sludge Pump Speed Command (HZ 1 implied decimal)			
Constant No			
External Access: Read/Write			
<i>PRESS2_SludgePumpSpeedCMD - MainProgram/Communications - *26(MOV), 32(MOV)</i>			
<i>PRESS2_SludgePumpSpeedCMD - MainProgram/L1104_SludgeFeedPump1_VFD - 23(MOV)</i>			
<i>PRESS2_SludgePumpSpeedCMD - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>			
PSH1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Pressure Switch High			
Constant No			
External Access: Read/Write			
<i>PSH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 13(XIC)</i>			
PSL1204	0	BOOL	PLC_SH

PSL1204 (Continued)

Sludge Feed Pump 2 Pressure Switch Low

Constant No

External Access: Read/Write

*PSL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 12(XIC)***SAN1204** ALRM PLC_SH

Sludge Feed Pump 2 Speed Fail

Constant No

External Access: Read/Write

*SAN1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *14(ALRM)***SAN1204.EnableIn** 0 BOOL

Sludge Feed Pump 2 Speed Fail Enable Input - System Defined Parameter

SAN1204.EnableOut 0 BOOL

Sludge Feed Pump 2 Speed Fail Enable Output - System Defined Parameter

SAN1204.Latched 0 BOOL

Sludge Feed Pump 2 Speed Fail

SAN1204.OperReset 0 BOOL

Sludge Feed Pump 2 Speed Fail

*SAN1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)***SAN1204.ProgReset** 0 BOOL

Sludge Feed Pump 2 Speed Fail

SAN1204.OperDisable 0 BOOL

Sludge Feed Pump 2 Speed Fail

SAN1204.OperEnable 0 BOOL

Sludge Feed Pump 2 Speed Fail

SAN1204.AlarmCountReset 0 BOOL

Sludge Feed Pump 2 Speed Fail Set to 1 to reset alarm count

SAN1204.InAlarm 0 BOOL

Sludge Feed Pump 2 Speed Fail

SAN1204.Disabled 0 BOOL

Sludge Feed Pump 2 Speed Fail

SAN1204.MinDurationPRE 60000 DINT

Sludge Feed Pump 2 Speed Fail

SAN1204.MinDurationACC 0 DINT

Sludge Feed Pump 2 Speed Fail

SAN1204.AlarmCount 0 DINT

Sludge Feed Pump 2 Speed Fail

SAN1204.InAlarmDate 0 DINT

Sludge Feed Pump 2 Speed Fail

SAN1204.InAlarmTime 0 DINT

Sludge Feed Pump 2 Speed Fail

SAN1204.RetToNormalDate 0 DINT

Sludge Feed Pump 2 Speed Fail

SAN1204.RetToNormalTime 0 DINT

Sludge Feed Pump 2 Speed Fail

SAN1204.AlarmCountResetDate 0 DINT

Sludge Feed Pump 2 Speed Fail

SAN1204.AlarmCountResetTime 0 DINT

Sludge Feed Pump 2 Speed Fail

SC1204 SCP PLC_SH

Sludge Feed Pump 2 Speed Control

Constant No

External Access: Read/Write

*SC1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *7(SCP)***SC1204.EnableIn** 1 BOOL

Sludge Feed Pump 2 Speed Control Enable Input - System Defined Parameter

SC1204.EnableOut 1 BOOL

Sludge Feed Pump 2 Speed Control Enable Output - System Defined Parameter

SC1204.Input 0.0 REAL

Sludge Feed Pump 2 Speed Control

*SC1204.Input - MainProgram/L1204_SludgeFeedPump2_VFD - *23(MOV), 14(CMP)***SC1204.InputMin** 0.0 REAL

SC1204 (Continued)			
Sludge Feed Pump 2 Speed Control			
SC1204.InputMax	60.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.OutputMin	0.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.OutputMax	1800.0	REAL	
Sludge Feed Pump 2 Speed Control			
SC1204.Output	0.0	REAL	
Sludge Feed Pump 2 Speed Control			
<i>SC1204.Output - MainProgram/L1204_SludgeFeedPump2_VFD - 7(MOV)</i>			
SC1204.ClampMin	1	BOOL	
Sludge Feed Pump 2 Speed Control			
SC1204.ClampMax	1	BOOL	
Sludge Feed Pump 2 Speed Control			
SC1204A	0.0	REAL	PLC_SH
Sludge Feed Pump 2 Manual Speed SP			
Constant	No		
External Access:	Read/Write		
<i>SC1204A - MainProgram/L1204_SludgeFeedPump2_VFD - 23(MOV)</i>			
SCN1204	50.0	REAL	PLC_SH
Sludge Feed Pump 2 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 14(CMP)</i>			
SI1204		SCP	PLC_SH
Sludge Feed Pump 2 Speed			
Constant	No		
External Access:	Read/Write		
<i>SI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *6(SCP)</i>			
SI1204.EnableIn	1	BOOL	
Sludge Feed Pump 2 Speed Enable Input - System Defined Parameter			
SI1204.EnableOut	1	BOOL	
Sludge Feed Pump 2 Speed Enable Output - System Defined Parameter			
SI1204.Input	0.0	REAL	
Sludge Feed Pump 2 Speed			
<i>SI1204.Input - MainProgram/L1204_SludgeFeedPump2_VFD - *6(MOV)</i>			
SI1204.InputMin	0.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.InputMax	60.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.OutputMin	0.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.OutputMax	60.0	REAL	
Sludge Feed Pump 2 Speed			
SI1204.Output	0.0	REAL	
Sludge Feed Pump 2 Speed			
<i>SI1204.Output - MainProgram/L1204_SludgeFeedPump2_VFD - 14(CMP)</i>			
SI1204.ClampMin	1	BOOL	
Sludge Feed Pump 2 Speed			
SI1204.ClampMax	1	BOOL	
Sludge Feed Pump 2 Speed			
SS1204		SS	PLC_SH
Sludge Feed Pump 2			
Constant	No		
External Access:	Read/Write		
<i>SS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *22(SS)</i>			
SS1204.EnableIn	0	BOOL	
Sludge Feed Pump 2 Enable Input - System Defined Parameter			
SS1204.EnableOut	0	BOOL	

SS1204 (Continued)

Sludge Feed Pump 2 Enable Output - System Defined Parameter		
SS1204.HMIAuto	0	BOOL
Sludge Feed Pump 2 HMI Auto		
<i>SS1204.HMIAuto - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>		
SS1204.AutoStart	0	BOOL
Sludge Feed Pump 2 Auto Start Command		
<i>SS1204.AutoStart - MainProgram/L1204_SludgeFeedPump2_VFD - *21(OTE)</i>		
SS1204.HMISStart	0	BOOL
Sludge Feed Pump 2 HMI Manual Start		
SS1204.HMISStop	0	BOOL
Sludge Feed Pump 2 HMI Manual Stop		
SS1204.StartCmd	0	BOOL
Sludge Feed Pump 2 Start Command		
<i>SS1204.StartCmd - MainProgram/L1204_SludgeFeedPump2_VFD - 14(XIC), 5(XIC), 8(XIC), 9(XIO)</i>		
SS1204.RestartActive	0	BOOL
Sludge Feed Pump 2 Restart Delay Active		
SS1204.RestartPRE	0	DINT
Sludge Feed Pump 2 Restart Delay Preset (Milliseconds)		
SS1204.RestartTime	0	DINT
Sludge Feed Pump 2 Actual Restart Time (Times Down)		

TAH1204 ALRM PLC_SH

Sludge Feed Pump 2 Motor Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *17(ALRM)</i>		
TAH1204.EnableIn	0	BOOL
Sludge Feed Pump 2 Motor Temperature High Enable Input - System Defined Parameter		
TAH1204.EnableOut	0	BOOL
Sludge Feed Pump 2 Motor Temperature High Enable Output - System Defined Parameter		
TAH1204.Latched	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.OperReset	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
<i>TAH1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>		
TAH1204.ProgReset	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.OperDisable	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.OperEnable	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.AlarmCountReset	0	BOOL
Sludge Feed Pump 2 Motor Temperature High Set to 1 to reset alarm count		
TAH1204.InAlarm	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
<i>TAH1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>		
TAH1204.Disabled	0	BOOL
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.MinDurationPRE	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.MinDurationACC	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.AlarmCount	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.InAlarmDate	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.InAlarmTime	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.RetToNormalDate	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.RetToNormalTime	0	DINT
Sludge Feed Pump 2 Motor Temperature High		
TAH1204.AlarmCountResetDate	0	DINT

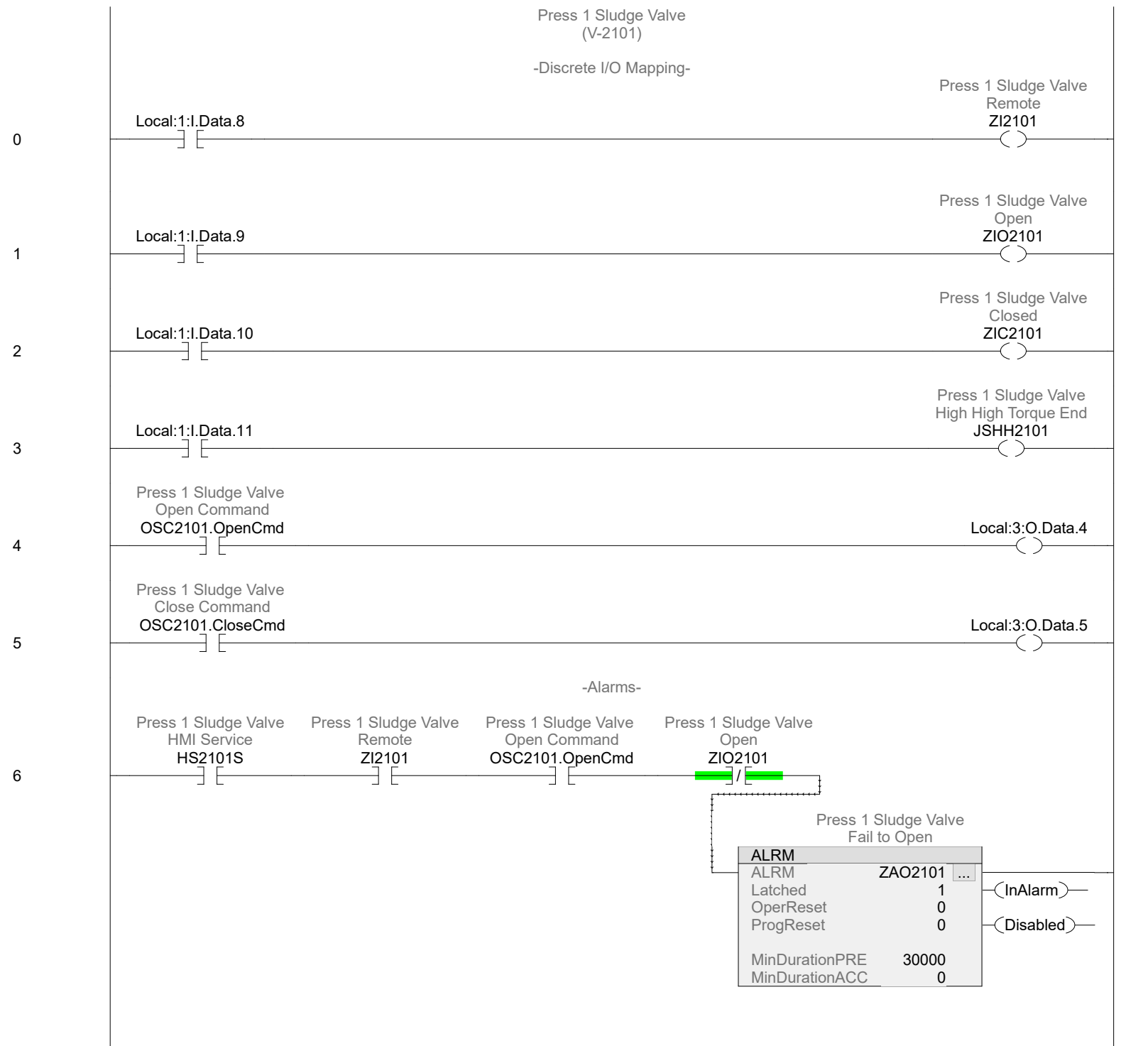
TAH1204 (Continued)			
Sludge Feed Pump 2 Motor Temperature High			
TAH1204.AlarmCountResetTime	0	DINT	
Sludge Feed Pump 2 Motor Temperature High			
TSH1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 High Temperature Switch			
Constant No			
External Access: Read/Write			
<i>TSH1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 17(XIC)</i>			
VFD1204:I1		_0044:DG1_7E5A1DEB:I:0	PLC_SH
Constant No			
External Access: Read/Write			
VFD1204:I1.ConnectionFaulted	1	BOOL	
<i>VFD1204:I1.ConnectionFaulted - MainProgram/L1204_SludgeFeedPump2_VFD - 0(DG1)</i>			
VFD1204:I1.Data		INT	
<i>VFD1204:I1.Data - MainProgram/L1204_SludgeFeedPump2_VFD - *0(DG1)</i>			
VFD1204:O1		_0044:DG1_7377BDB4:O:0	PLC_SH
Constant No			
External Access: Read/Write			
<i>VFD1204:O1 - MainProgram/L1204_SludgeFeedPump2_VFD - *0(DG1)</i>			
YA1204		ALRM	PLC_SH
Sludge Feed Pump 2 Fail			
Constant No			
External Access: Read/Write			
<i>YA1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *10(ALRM)</i>			
YA1204.EnableIn	0	BOOL	
Sludge Feed Pump 2 Fail Enable Input - System Defined Parameter			
YA1204.EnableOut	0	BOOL	
Sludge Feed Pump 2 Fail Enable Output - System Defined Parameter			
YA1204.Latched	0	BOOL	
Sludge Feed Pump 2 Fail			
YA1204.OperReset	0	BOOL	
Sludge Feed Pump 2 Fail			
<i>YA1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>			
YA1204.ProgReset	0	BOOL	
Sludge Feed Pump 2 Fail			
YA1204.OperDisable	0	BOOL	
Sludge Feed Pump 2 Fail			
YA1204.OperEnable	0	BOOL	
Sludge Feed Pump 2 Fail			
YA1204.AlarmCountReset	0	BOOL	
Sludge Feed Pump 2 Fail Set to 1 to reset alarm count			
YA1204.InAlarm	0	BOOL	
Sludge Feed Pump 2 Fail			
<i>YA1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>			
YA1204.Disabled	0	BOOL	
Sludge Feed Pump 2 Fail			
YA1204.MinDurationPRE	0	DINT	
Sludge Feed Pump 2 Fail			
YA1204.MinDurationACC	0	DINT	
Sludge Feed Pump 2 Fail			
YA1204.AlarmCount	0	DINT	
Sludge Feed Pump 2 Fail			
YA1204.InAlarmDate	0	DINT	
Sludge Feed Pump 2 Fail			
YA1204.InAlarmTime	0	DINT	
Sludge Feed Pump 2 Fail			
YA1204.RetToNormalDate	0	DINT	
Sludge Feed Pump 2 Fail			
YA1204.RetToNormalTime	0	DINT	
Sludge Feed Pump 2 Fail			

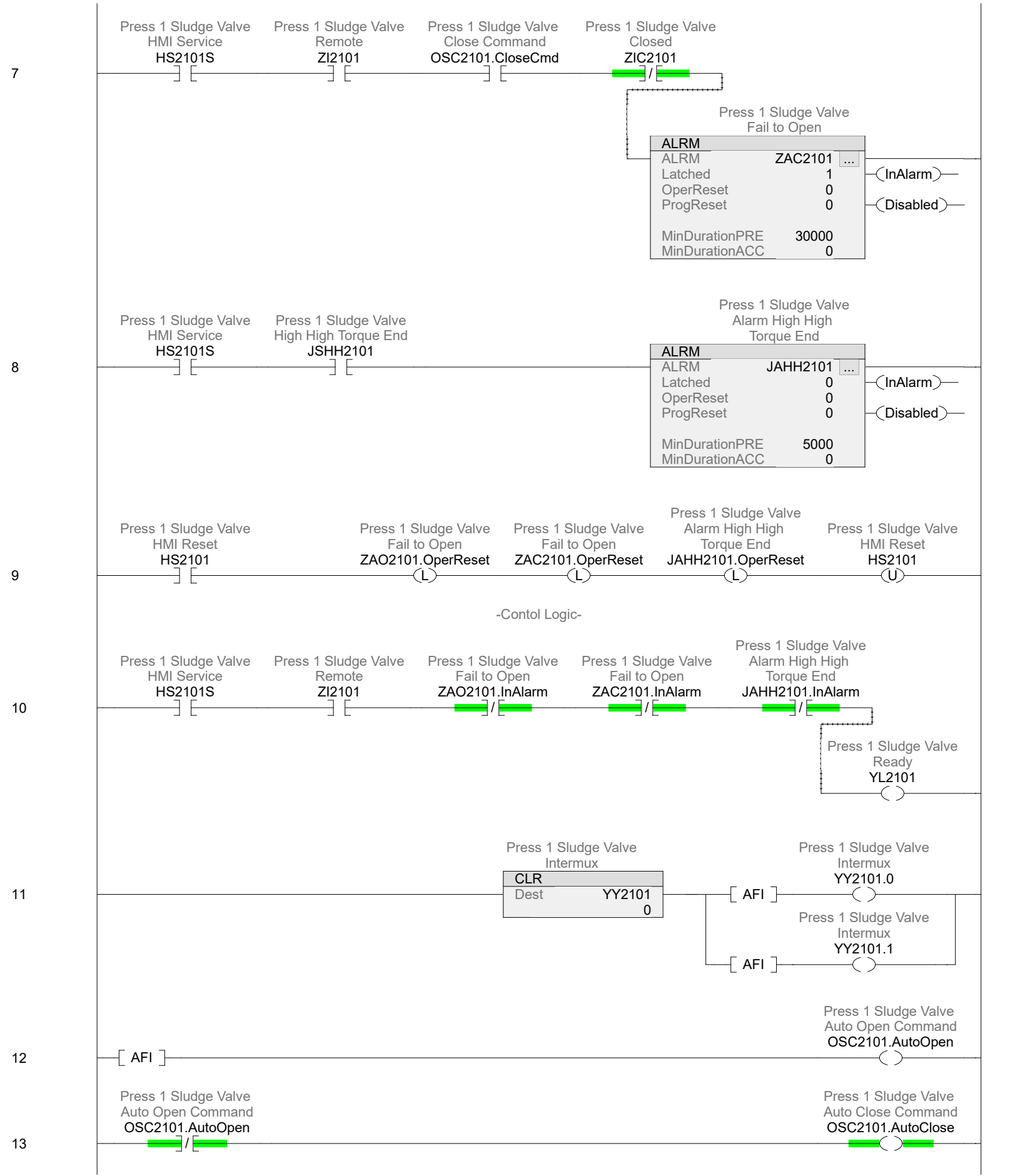
YA1204 (Continued)			
Sludge Feed Pump 2 Fail			
YA1204.AlarmCountResetDate	0	DINT	
Sludge Feed Pump 2 Fail			
YA1204.AlarmCountResetTime	0	DINT	
Sludge Feed Pump 2 Fail			
YI1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI1204 - MainProgram/Communications - 18(XIC), 3(XIC)</i>			
<i>YI1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>			
<i>YI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *3(OTE), 24(XIC), 8(XIO), 9(XIC)</i>			
YL1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 26(XIC)</i>			
<i>YL1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *19(OTE), 22(XIC)</i>			
YS1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *4(OTE), 10(XIC)</i>			
YY1204	0	DINT	PLC_SH
Sludge Feed Pump 2 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY1204 - MainProgram/L1104_SludgeFeedPump1_VFD - 32(NEQ)</i>			
<i>YY1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(CLR), 22(EQU)</i>			
YY1204.0	0	BOOL	
Sludge Feed Pump 2 Intermux			
<i>YY1204.0 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(OTE)</i>			
YY1204.1	0	BOOL	
Sludge Feed Pump 2 Intermux			
<i>YY1204.1 - MainProgram/L1204_SludgeFeedPump2_VFD - *20(OTE)</i>			
ZA1204		ALRM	PLC_SH
Sludge Feed Pump 2 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZA1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *11(ALRM)</i>			
ZA1204.EnableIn	0	BOOL	
Sludge Feed Pump 2 E-Stop Enable Input - System Defined Parameter			
ZA1204.EnableOut	0	BOOL	
Sludge Feed Pump 2 E-Stop Enable Output - System Defined Parameter			
ZA1204.Latched	0	BOOL	
Sludge Feed Pump 2 E-Stop			
ZA1204.OperReset	0	BOOL	
Sludge Feed Pump 2 E-Stop			
<i>ZA1204.OperReset - MainProgram/L1204_SludgeFeedPump2_VFD - *18(OTL)</i>			
ZA1204.ProgReset	0	BOOL	
Sludge Feed Pump 2 E-Stop			
ZA1204.OperDisable	0	BOOL	
Sludge Feed Pump 2 E-Stop			
ZA1204.OperEnable	0	BOOL	
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCountReset	0	BOOL	
Sludge Feed Pump 2 E-Stop Set to 1 to reset alarm count			
ZA1204.InAlarm	0	BOOL	

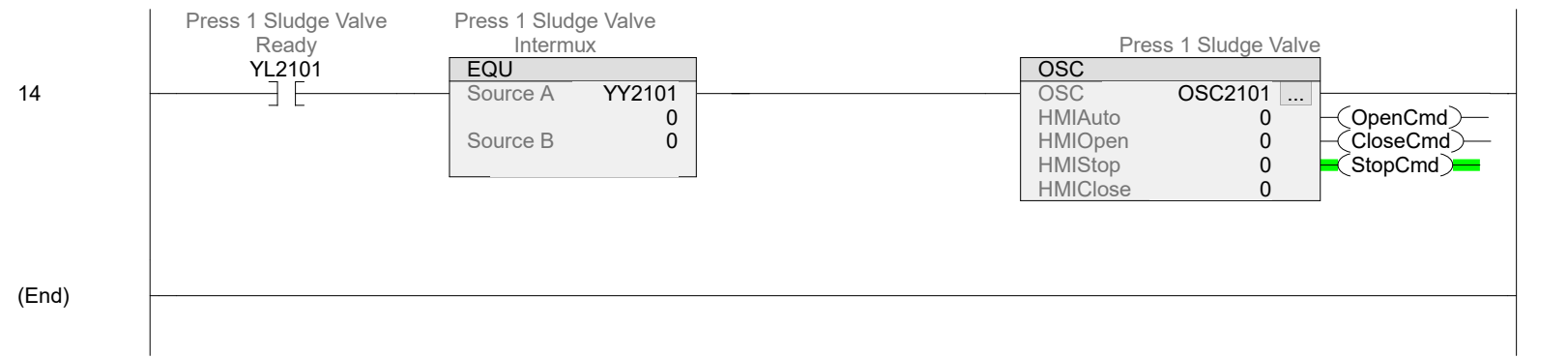
ZA1204 (Continued)			
Sludge Feed Pump 2 E-Stop			
<i>ZA1204.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 19(XIO)</i>			
ZA1204.Disabled	0	BOOL	
Sludge Feed Pump 2 E-Stop			
ZA1204.MinDurationPRE	0	DINT	
Sludge Feed Pump 2 E-Stop			
ZA1204.MinDurationACC	0	DINT	
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCount	0	DINT	
Sludge Feed Pump 2 E-Stop			
ZA1204.InAlarmDate	0	DINT	
Sludge Feed Pump 2 E-Stop			
ZA1204.InAlarmTime	0	DINT	
Sludge Feed Pump 2 E-Stop			
ZA1204.RetToNormalDate	0	DINT	
Sludge Feed Pump 2 E-Stop			
ZA1204.RetToNormalTime	0	DINT	
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCountResetDate	0	DINT	
Sludge Feed Pump 2 E-Stop			
ZA1204.AlarmCountResetTime	0	DINT	
Sludge Feed Pump 2 E-Stop			
ZI1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI1204 - MainProgram/L1204_SludgeFeedPump2_VFD - *2(OTE), 19(XIC), 9(XIC)</i>			
ZI1204A	0	BOOL	PLC_SH
Sludge Feed Pump 2 VFD Ready			
Constant	No		
External Access:	Read/Write		
<i>ZI1204A - MainProgram/L1204_SludgeFeedPump2_VFD - *1(OTE)</i>			
ZS1204	0	BOOL	PLC_SH
Sludge Feed Pump 2 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZS1204 - MainProgram/L1204_SludgeFeedPump2_VFD - 11(XIC)</i>			

General

Type:	 Ladder Diagram	Number of Rungs:	25
In Program:	 MainProgram		







Name	Value	Data Type	Scope
HS2101	0	BOOL	PLC_SH
Press 1 Sludge Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2101 - MainProgram/L2101_Press1_SludgeValve - *9(OTU), 9(XIC)</i>			
HS2101S	0	BOOL	PLC_SH
Press 1 Sludge Valve HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS2101S - MainProgram/L2101_Press1_SludgeValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
JAHH2101		ALRM	PLC_SH
Press 1 Sludge Valve Alarm High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JAHH2101 - MainProgram/L2101_Press1_SludgeValve - *8(ALRM)</i>			
JAHH2101.EnableIn	0	BOOL	
Press 1 Sludge Valve Alarm High High Torque End Enable Input - System Defined Parameter			
JAHH2101.EnableOut	0	BOOL	
Press 1 Sludge Valve Alarm High High Torque End Enable Output - System Defined Parameter			
JAHH2101.Latched	0	BOOL	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.OperReset	0	BOOL	
Press 1 Sludge Valve Alarm High High Torque End			
<i>JAHH2101.OperReset - MainProgram/L2101_Press1_SludgeValve - *9(OTL)</i>			
JAHH2101.ProgReset	0	BOOL	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.OperDisable	0	BOOL	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.OperEnable	0	BOOL	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.AlarmCountReset	0	BOOL	
Press 1 Sludge Valve Alarm High High Torque End Set to 1 to reset alarm count			
JAHH2101.InAlarm	0	BOOL	
Press 1 Sludge Valve Alarm High High Torque End			
<i>JAHH2101.InAlarm - MainProgram/L2101_Press1_SludgeValve - 10(XIO)</i>			
JAHH2101.Disabled	0	BOOL	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.MinDurationPRE	5000	DINT	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.MinDurationACC	0	DINT	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.AlarmCount	0	DINT	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.InAlarmDate	0	DINT	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.InAlarmTime	0	DINT	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.RefToNormalDate	0	DINT	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.RefToNormalTime	0	DINT	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.AlarmCountResetDate	0	DINT	
Press 1 Sludge Valve Alarm High High Torque End			
JAHH2101.AlarmCountResetTime	0	DINT	
Press 1 Sludge Valve Alarm High High Torque End			
JSHH2101	0	BOOL	PLC_SH
Press 1 Sludge Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH2101 - MainProgram/L2101_Press1_SludgeValve - *3(OTE), 8(XIC)</i>			

Local:1:I		AB:1769_DI16:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:1:I.Data.0	0	BOOL	
<i>Local:1:I.Data.0 - MainProgram/L1101_SHT1_ControlValve - 0(XIC)</i>			
Local:1:I.Data.1	0	BOOL	
<i>Local:1:I.Data.1 - MainProgram/L1101_SHT1_ControlValve - 1(XIC)</i>			
Local:1:I.Data.2	0	BOOL	
<i>Local:1:I.Data.2 - MainProgram/L1101_SHT1_ControlValve - 2(XIC)</i>			
Local:1:I.Data.3	0	BOOL	
<i>Local:1:I.Data.3 - MainProgram/L1101_SHT1_ControlValve - 3(XIC)</i>			
Local:1:I.Data.4	0	BOOL	
<i>Local:1:I.Data.4 - MainProgram/L1201_SHT2_ControlValve - 0(XIC)</i>			
Local:1:I.Data.5	0	BOOL	
<i>Local:1:I.Data.5 - MainProgram/L1201_SHT2_ControlValve - 1(XIC)</i>			
Local:1:I.Data.6	0	BOOL	
<i>Local:1:I.Data.6 - MainProgram/L1201_SHT2_ControlValve - 2(XIC)</i>			
Local:1:I.Data.7	0	BOOL	
<i>Local:1:I.Data.7 - MainProgram/L1201_SHT2_ControlValve - 3(XIC)</i>			
Local:1:I.Data.8	0	BOOL	
<i>Local:1:I.Data.8 - MainProgram/L2101_Press1_SludgeValve - 0(XIC)</i>			
Local:1:I.Data.9	0	BOOL	
<i>Local:1:I.Data.9 - MainProgram/L2101_Press1_SludgeValve - 1(XIC)</i>			
Local:1:I.Data.10	0	BOOL	
<i>Local:1:I.Data.10 - MainProgram/L2101_Press1_SludgeValve - 2(XIC)</i>			
Local:1:I.Data.11	0	BOOL	
<i>Local:1:I.Data.11 - MainProgram/L2101_Press1_SludgeValve - 3(XIC)</i>			
Local:1:I.Data.12	0	BOOL	
<i>Local:1:I.Data.12 - MainProgram/L2201_Press2_SludgeValve - 0(XIC)</i>			
Local:1:I.Data.13	0	BOOL	
<i>Local:1:I.Data.13 - MainProgram/L2201_Press2_SludgeValve - 1(XIC)</i>			
Local:1:I.Data.14	0	BOOL	
<i>Local:1:I.Data.14 - MainProgram/L2201_Press2_SludgeValve - 2(XIC)</i>			
Local:1:I.Data.15	0	BOOL	
<i>Local:1:I.Data.15 - MainProgram/L2201_Press2_SludgeValve - 3(XIC)</i>			
Local:3:O		AB:1769_DO8:O:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:3:O.Data.0	0	BOOL	
<i>Local:3:O.Data.0 - MainProgram/L1101_SHT1_ControlValve - *4(OTE)</i>			
Local:3:O.Data.1	0	BOOL	
<i>Local:3:O.Data.1 - MainProgram/L1101_SHT1_ControlValve - *5(OTE)</i>			
Local:3:O.Data.2	0	BOOL	
<i>Local:3:O.Data.2 - MainProgram/L1201_SHT2_ControlValve - *4(OTE)</i>			
Local:3:O.Data.3	0	BOOL	
<i>Local:3:O.Data.3 - MainProgram/L1201_SHT2_ControlValve - *5(OTE)</i>			
Local:3:O.Data.4	0	BOOL	
<i>Local:3:O.Data.4 - MainProgram/L2101_Press1_SludgeValve - *4(OTE)</i>			
Local:3:O.Data.5	0	BOOL	
<i>Local:3:O.Data.5 - MainProgram/L2101_Press1_SludgeValve - *5(OTE)</i>			
<i>Local:3:O.Data.5 - MainProgram/L2201_Press2_SludgeValve - *4(OTE)</i>			
Local:3:O.Data.6	0	BOOL	
<i>Local:3:O.Data.6 - MainProgram/L2201_Press2_SludgeValve - *5(OTE)</i>			
OSC2101		OSC	PLC_SH
Press 1 Sludge Valve			
Constant	No		
External Access:	Read/Write		
<i>OSC2101 - MainProgram/L2101_Press1_SludgeValve - *14(OSC)</i>			
OSC2101.EnableIn	0	BOOL	
Press 1 Sludge Valve Enable Input - System Defined Parameter			
OSC2101.EnableOut	0	BOOL	
Press 1 Sludge Valve Enable Output - System Defined Parameter			

OSC2101 (Continued)			
OSC2101.HMIAuto	0	BOOL	
Press 1 Sludge Valve HMI Auto			
<i>OSC2101.HMIAuto - MainProgram/L1100_PressControl - 3(XIO)</i>			
OSC2101.AutoOpen	0	BOOL	
Press 1 Sludge Valve Auto Open Command			
<i>OSC2101.AutoOpen - MainProgram/L2101_Press1_SludgeValve - *12(OTE), 13(XIO)</i>			
OSC2101.HMIOpen	0	BOOL	
Press 1 Sludge Valve HMI Manual Open			
OSC2101.HMIStop	0	BOOL	
Press 1 Sludge Valve HMI Manual Stop			
OSC2101.HMIClose	0	BOOL	
Press 1 Sludge Valve HMI Manual Close			
OSC2101.OpenCmd	0	BOOL	
Press 1 Sludge Valve Open Command			
<i>OSC2101.OpenCmd - MainProgram/L2101_Press1_SludgeValve - 4(XIC), 6(XIC)</i>			
OSC2101.AutoClose	1	BOOL	
Press 1 Sludge Valve Auto Close Command			
<i>OSC2101.AutoClose - MainProgram/L2101_Press1_SludgeValve - *13(OTE)</i>			
OSC2101.AutoStop	0	BOOL	
Press 1 Sludge Valve Auto Stop Command			
OSC2101.CloseCmd	0	BOOL	
Press 1 Sludge Valve Close Command			
<i>OSC2101.CloseCmd - MainProgram/L2101_Press1_SludgeValve - 5(XIC), 7(XIC)</i>			
OSC2101.StopCmd	1	BOOL	
Press 1 Sludge Valve Stop Command			
YL2101	0	BOOL	PLC_SH
Press 1 Sludge Valve Ready			
Constant No			
External Access: Read/Write			
<i>YL2101 - MainProgram/L1100_PressControl - 3(XIO)</i>			
<i>YL2101 - MainProgram/L2101_Press1_SludgeValve - *10(OTE), 14(XIC)</i>			
YY2101	0	DINT	PLC_SH
Press 1 Sludge Valve Intermux			
Constant No			
External Access: Read/Write			
<i>YY2101 - MainProgram/L2101_Press1_SludgeValve - *11(CLR), 14(EQU)</i>			
YY2101.0	0	BOOL	
Press 1 Sludge Valve Intermux			
<i>YY2101.0 - MainProgram/L2101_Press1_SludgeValve - *11(OTE)</i>			
YY2101.1	0	BOOL	
Press 1 Sludge Valve Intermux			
<i>YY2101.1 - MainProgram/L2101_Press1_SludgeValve - *11(OTE)</i>			
ZAC2101		ALRM	PLC_SH
Press 1 Sludge Valve Fail to Open			
Constant No			
External Access: Read/Write			
<i>ZAC2101 - MainProgram/L2101_Press1_SludgeValve - *7(ALRM)</i>			
ZAC2101.EnableIn	0	BOOL	
Press 1 Sludge Valve Fail to Open Enable Input - System Defined Parameter			
ZAC2101.EnableOut	0	BOOL	
Press 1 Sludge Valve Fail to Open Enable Output - System Defined Parameter			
ZAC2101.Latched	1	BOOL	
Press 1 Sludge Valve Fail to Open			
ZAC2101.OperReset	0	BOOL	
Press 1 Sludge Valve Fail to Open			
<i>ZAC2101.OperReset - MainProgram/L2101_Press1_SludgeValve - *9(OTL)</i>			
ZAC2101.ProgReset	0	BOOL	
Press 1 Sludge Valve Fail to Open			
ZAC2101.OperDisable	0	BOOL	
Press 1 Sludge Valve Fail to Open			

ZAC2101 (Continued)		
ZAC2101.OperEnable	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCountReset	0	BOOL
Press 1 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAC2101.InAlarm	0	BOOL
Press 1 Sludge Valve Fail to Open		
<i>ZAC2101.InAlarm - MainProgram/L2101_Press1_SludgeValve - 10(XIO)</i>		
ZAC2101.Disabled	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAC2101.MinDurationPRE	30000	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.MinDurationACC	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCount	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.InAlarmDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.InAlarmTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.RetToNormalDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.RetToNormalTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCountResetDate	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAC2101.AlarmCountResetTime	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101		ALRM
Press 1 Sludge Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAO2101 - MainProgram/L2101_Press1_SludgeValve - *6(ALRM)</i>		
ZAO2101.EnableIn	0	BOOL
Press 1 Sludge Valve Fail to Open Enable Input - System Defined Parameter		
ZAO2101.EnableOut	0	BOOL
Press 1 Sludge Valve Fail to Open Enable Output - System Defined Parameter		
ZAO2101.Latched	1	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.OperReset	0	BOOL
Press 1 Sludge Valve Fail to Open		
<i>ZAO2101.OperReset - MainProgram/L2101_Press1_SludgeValve - *9(OTL)</i>		
ZAO2101.ProgReset	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.OperDisable	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.OperEnable	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.AlarmCountReset	0	BOOL
Press 1 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAO2101.InAlarm	0	BOOL
Press 1 Sludge Valve Fail to Open		
<i>ZAO2101.InAlarm - MainProgram/L2101_Press1_SludgeValve - 10(XIO)</i>		
ZAO2101.Disabled	0	BOOL
Press 1 Sludge Valve Fail to Open		
ZAO2101.MinDurationPRE	30000	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.MinDurationACC	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.AlarmCount	0	DINT
Press 1 Sludge Valve Fail to Open		
ZAO2101.InAlarmDate	0	DINT
Press 1 Sludge Valve Fail to Open		

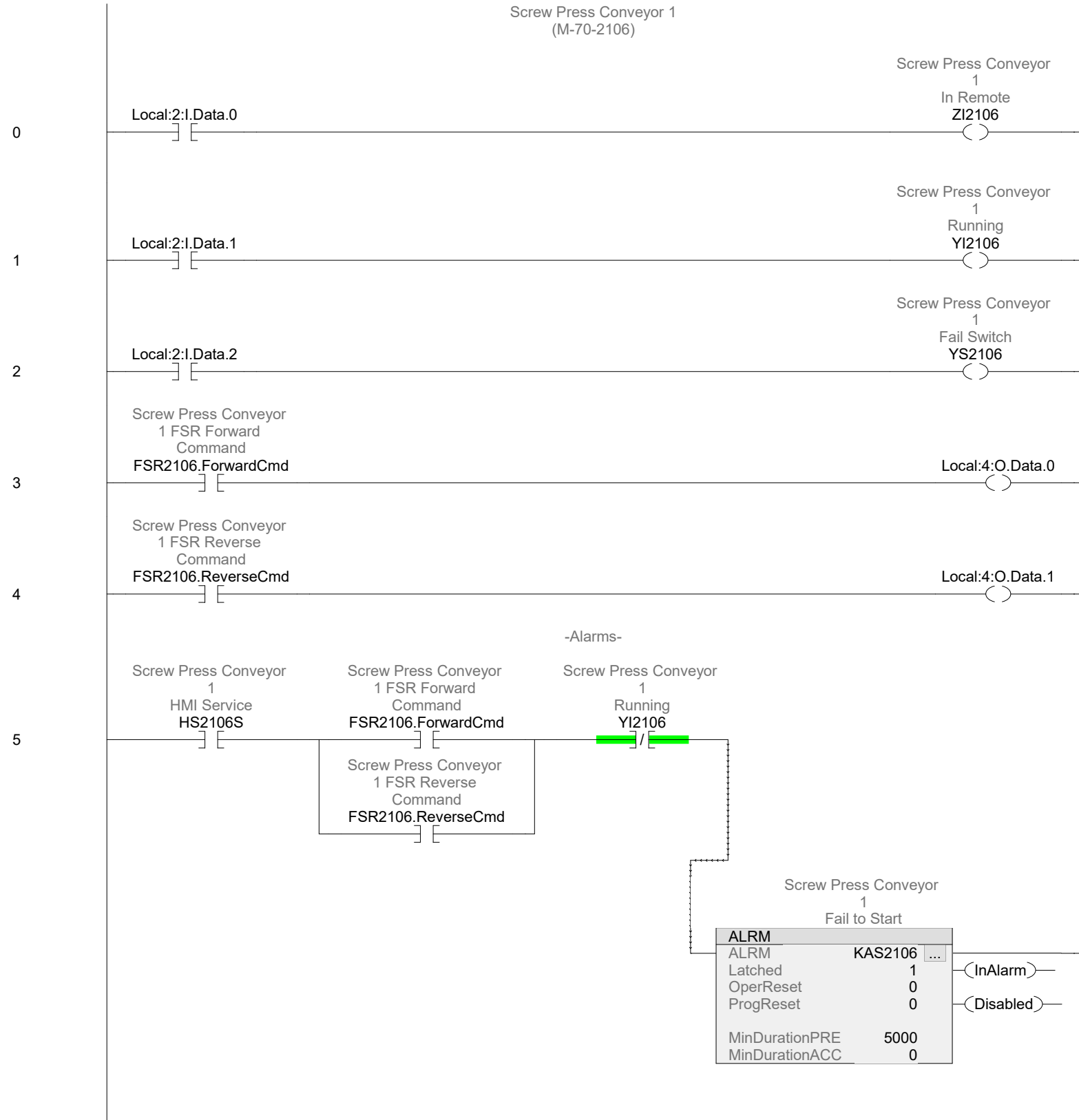
PLC_SH

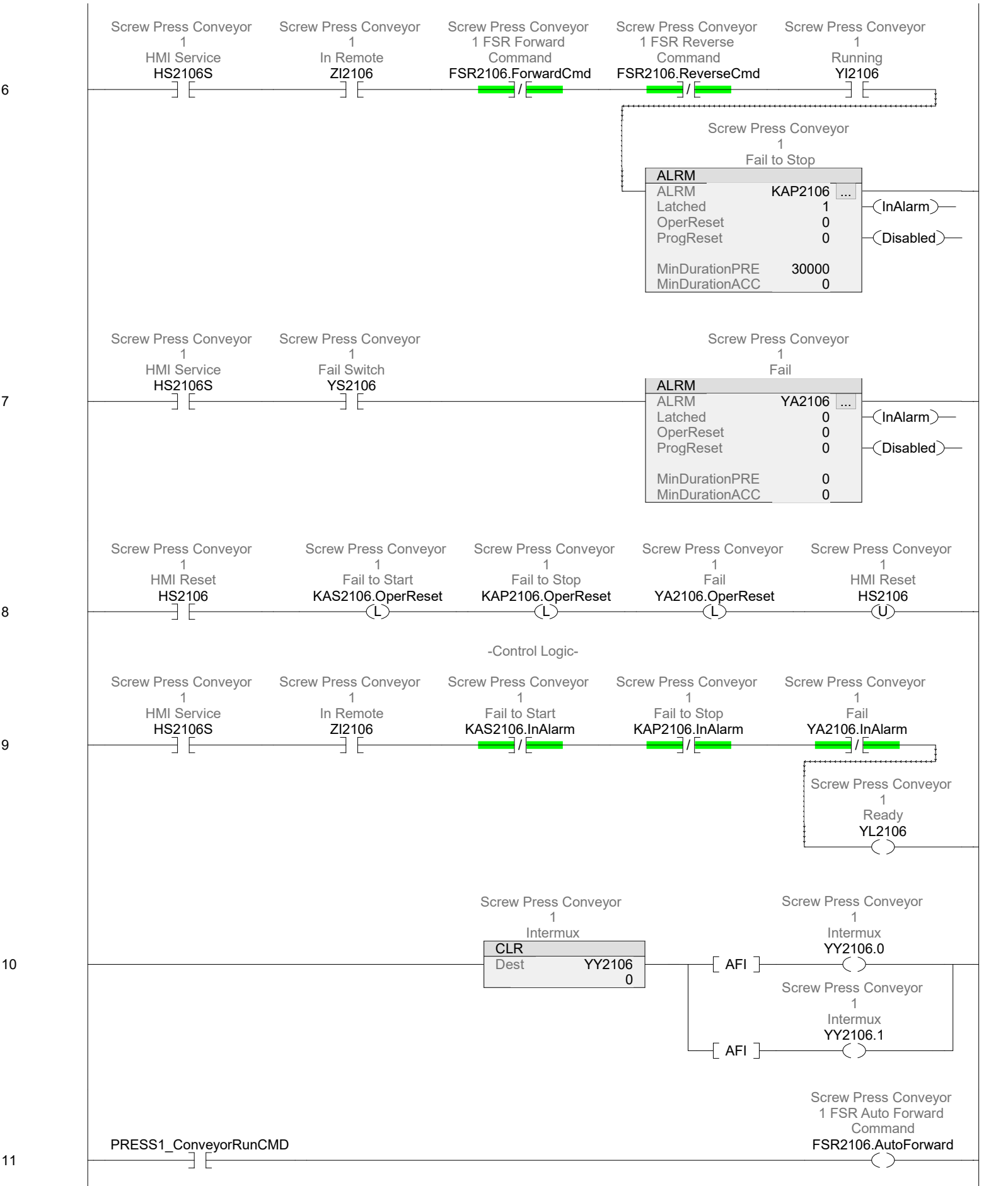
ZAO2101 (Continued)			
ZAO2101.InAlarmTime	0	DINT	
Press 1 Sludge Valve Fail to Open			
ZAO2101.RetToNormalDate	0	DINT	
Press 1 Sludge Valve Fail to Open			
ZAO2101.RetToNormalTime	0	DINT	
Press 1 Sludge Valve Fail to Open			
ZAO2101.AlarmCountResetDate	0	DINT	
Press 1 Sludge Valve Fail to Open			
ZAO2101.AlarmCountResetTime	0	DINT	
Press 1 Sludge Valve Fail to Open			
ZI2101	0	BOOL	PLC_SH
Press 1 Sludge Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI2101 - MainProgram/L2101_Press1_SludgeValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)</i>			
ZIC2101	0	BOOL	PLC_SH
Press 1 Sludge Valve Closed			
Constant	No		
External Access:	Read/Write		
<i>ZIC2101 - MainProgram/L2101_Press1_SludgeValve - *2(OTE), 7(XIO)</i>			
ZIO2101	0	BOOL	PLC_SH
Press 1 Sludge Valve Open			
Constant	No		
External Access:	Read/Write		
<i>ZIO2101 - MainProgram/Communications - 30(XIC)</i>			
<i>ZIO2101 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>ZIO2101 - MainProgram/L2101_Press1_SludgeValve - *1(OTE), 6(XIO)</i>			

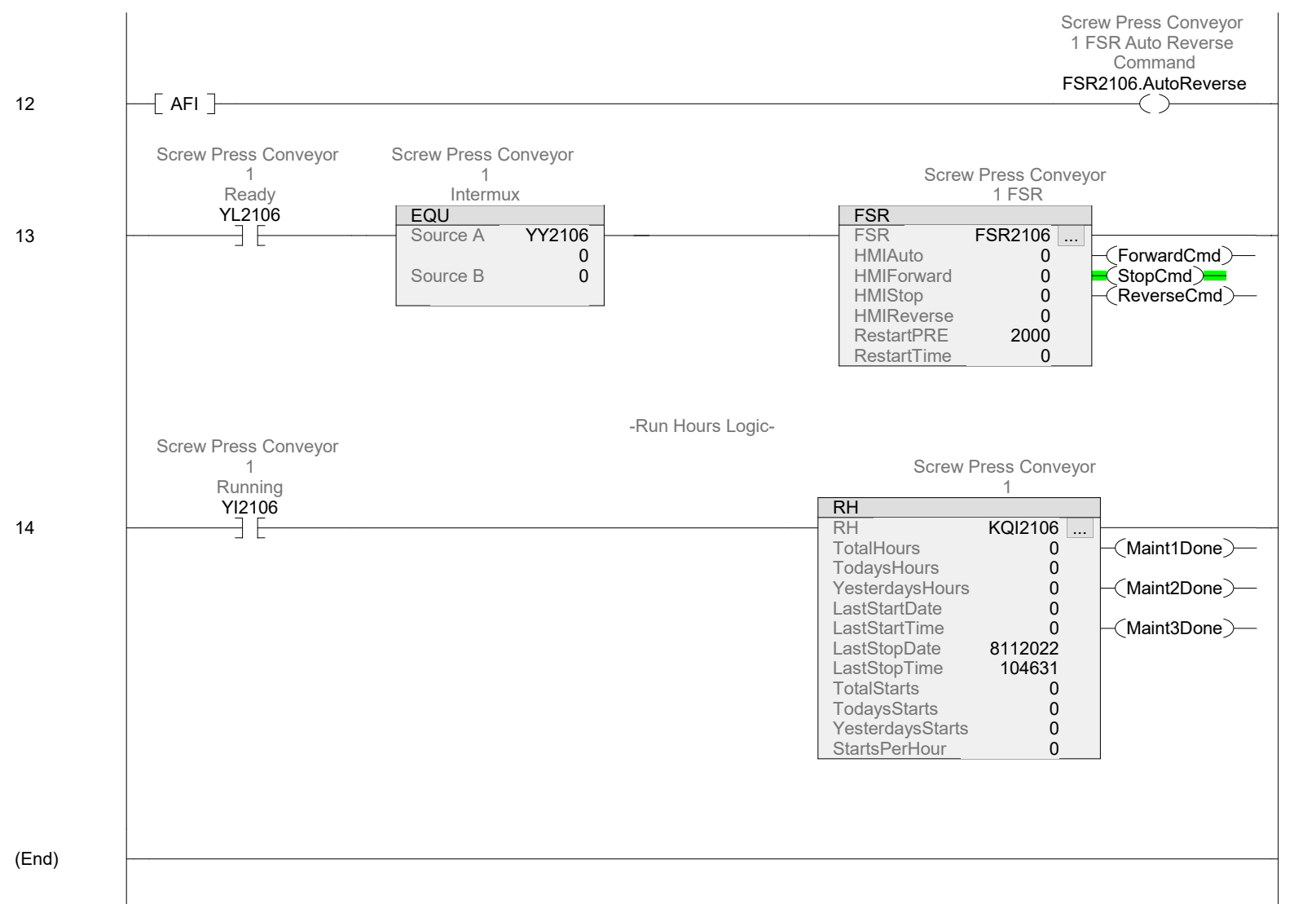
General

Type:	 Ladder Diagram	Number of Rungs:	15
In Program:	 MainProgram		

Screw Press Conveyor 1
(M-70-2106)







Name	Value	Data Type	Scope
FSR2106		FSR	PLC_SH
Screw Press Conveyor 1 FSR			
Constant	No		
External Access:	Read/Write		
<i>FSR2106 - MainProgram/L2106_ScrewPressConveyor1 - *13(FSR)</i>			
FSR2106.EnableIn	0	BOOL	
Screw Press Conveyor 1 FSR Enable Input - System Defined Parameter			
FSR2106.EnableOut	0	BOOL	
Screw Press Conveyor 1 FSR Enable Output - System Defined Parameter			
FSR2106.HMIAuto	0	BOOL	
Screw Press Conveyor 1 FSR HMI Auto			
<i>FSR2106.HMIAuto - MainProgram/L1100_PressControl - 3(XIO)</i>			
FSR2106.AutoForward	0	BOOL	
Screw Press Conveyor 1 FSR Auto Forward Command			
<i>FSR2106.AutoForward - MainProgram/L2106_ScrewPressConveyor1 - *11(OTE)</i>			
FSR2106.AutoStop	0	BOOL	
Screw Press Conveyor 1 FSR Auto Stop Command			
FSR2106.AutoReverse	0	BOOL	
Screw Press Conveyor 1 FSR Auto Reverse Command			
<i>FSR2106.AutoReverse - MainProgram/L2106_ScrewPressConveyor1 - *12(OTE)</i>			
FSR2106.HMIForward	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Forward			
FSR2106.HMIStop	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Stop			
FSR2106.HMIReverse	0	BOOL	
Screw Press Conveyor 1 FSR HMI Manual Reverse			
FSR2106.ForwardCmd	0	BOOL	
Screw Press Conveyor 1 FSR Forward Command			
<i>FSR2106.ForwardCmd - MainProgram/L2106_ScrewPressConveyor1 - 3(XIC), 5(XIC), 6(XIO)</i>			
FSR2106.StopCmd	1	BOOL	
Screw Press Conveyor 1 FSR Stop Command			
FSR2106.ReverseCmd	0	BOOL	
Screw Press Conveyor 1 FSR Reverse Command			
<i>FSR2106.ReverseCmd - MainProgram/L2106_ScrewPressConveyor1 - 4(XIC), 5(XIC), 6(XIO)</i>			
FSR2106.RestartActive	0	BOOL	
Screw Press Conveyor 1 FSR Restart Delay Active			
FSR2106.RestartPRE	2000	DINT	
Screw Press Conveyor 1 FSR Restart Delay Preset (Milliseconds)			
FSR2106.RestartTime	0	DINT	
Screw Press Conveyor 1 FSR Actual Restart Time (Times Down)			
HS2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2106 - MainProgram/L2106_ScrewPressConveyor1 - *8(OTU), 8(XIC)</i>			
HS2106S	0	BOOL	PLC_SH
Screw Press Conveyor 1 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS2106S - MainProgram/L2106_ScrewPressConveyor1 - 5(XIC), 6(XIC), 7(XIC), 9(XIC)</i>			
KAP2106		ALRM	PLC_SH
Screw Press Conveyor 1 Fail to Stop			
Constant	No		
External Access:	Read/Write		
<i>KAP2106 - MainProgram/L2106_ScrewPressConveyor1 - *6(ALRM)</i>			
KAP2106.EnableIn	0	BOOL	
Screw Press Conveyor 1 Fail to Stop Enable Input - System Defined Parameter			
KAP2106.EnableOut	0	BOOL	
Screw Press Conveyor 1 Fail to Stop Enable Output - System Defined Parameter			
KAP2106.Latched	1	BOOL	

KAP2106 (Continued)

Screw Press Conveyor 1 Fail to Stop		
KAP2106.OperReset	0	BOOL
Screw Press Conveyor 1 Fail to Stop		
<i>KAP2106.OperReset - MainProgram/L2106_ScrewPressConveyor1 - *8(OTL)</i>		
KAP2106.ProgReset	0	BOOL
Screw Press Conveyor 1 Fail to Stop		
KAP2106.OperDisable	0	BOOL
Screw Press Conveyor 1 Fail to Stop		
KAP2106.OperEnable	0	BOOL
Screw Press Conveyor 1 Fail to Stop		
KAP2106.AlarmCountReset	0	BOOL
Screw Press Conveyor 1 Fail to Stop Set to 1 to reset alarm count		
KAP2106.InAlarm	0	BOOL
Screw Press Conveyor 1 Fail to Stop		
<i>KAP2106.InAlarm - MainProgram/L2106_ScrewPressConveyor1 - 9(XIO)</i>		
KAP2106.Disabled	0	BOOL
Screw Press Conveyor 1 Fail to Stop		
KAP2106.MinDurationPRE	30000	DINT
Screw Press Conveyor 1 Fail to Stop		
KAP2106.MinDurationACC	0	DINT
Screw Press Conveyor 1 Fail to Stop		
KAP2106.AlarmCount	0	DINT
Screw Press Conveyor 1 Fail to Stop		
KAP2106.InAlarmDate	0	DINT
Screw Press Conveyor 1 Fail to Stop		
KAP2106.InAlarmTime	0	DINT
Screw Press Conveyor 1 Fail to Stop		
KAP2106.RetToNormalDate	0	DINT
Screw Press Conveyor 1 Fail to Stop		
KAP2106.RetToNormalTime	0	DINT
Screw Press Conveyor 1 Fail to Stop		
KAP2106.AlarmCountResetDate	0	DINT
Screw Press Conveyor 1 Fail to Stop		
KAP2106.AlarmCountResetTime	0	DINT
Screw Press Conveyor 1 Fail to Stop		

KAS2106 ALRM PLC_SH

Screw Press Conveyor 1 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS2106 - MainProgram/L2106_ScrewPressConveyor1 - *5(ALRM)</i>		
KAS2106.EnableIn	0	BOOL
Screw Press Conveyor 1 Fail to Start Enable Input - System Defined Parameter		
KAS2106.EnableOut	0	BOOL
Screw Press Conveyor 1 Fail to Start Enable Output - System Defined Parameter		
KAS2106.Latched	1	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.OperReset	0	BOOL
Screw Press Conveyor 1 Fail to Start		
<i>KAS2106.OperReset - MainProgram/L2106_ScrewPressConveyor1 - *8(OTL)</i>		
KAS2106.ProgReset	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.OperDisable	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.OperEnable	0	BOOL
Screw Press Conveyor 1 Fail to Start		
KAS2106.AlarmCountReset	0	BOOL
Screw Press Conveyor 1 Fail to Start Set to 1 to reset alarm count		
KAS2106.InAlarm	0	BOOL
Screw Press Conveyor 1 Fail to Start		
<i>KAS2106.InAlarm - MainProgram/L2106_ScrewPressConveyor1 - 9(XIO)</i>		
KAS2106.Disabled	0	BOOL
Screw Press Conveyor 1 Fail to Start		

Tag Name	Value	Unit	Access
KAS2106 (Continued)			
KAS2106.MinDurationPRE	5000		DINT
Screw Press Conveyor 1 Fail to Start			
KAS2106.MinDurationACC	0		DINT
Screw Press Conveyor 1 Fail to Start			
KAS2106.AlarmCount	0		DINT
Screw Press Conveyor 1 Fail to Start			
KAS2106.InAlarmDate	0		DINT
Screw Press Conveyor 1 Fail to Start			
KAS2106.InAlarmTime	0		DINT
Screw Press Conveyor 1 Fail to Start			
KAS2106.RetToNormalDate	0		DINT
Screw Press Conveyor 1 Fail to Start			
KAS2106.RetToNormalTime	0		DINT
Screw Press Conveyor 1 Fail to Start			
KAS2106.AlarmCountResetDate	0		DINT
Screw Press Conveyor 1 Fail to Start			
KAS2106.AlarmCountResetTime	0		DINT
Screw Press Conveyor 1 Fail to Start			
KQI2106			
Screw Press Conveyor 1			RH
Constant	No		
External Access:	Read/Write		
<i>KQI2106 - MainProgram/L2106_ScrewPressConveyor1 - *I4(RH)</i>			
KQI2106.EnableIn	0		BOOL
Screw Press Conveyor 1 Enable Input - System Defined Parameter			
KQI2106.EnableOut	0		BOOL
Screw Press Conveyor 1 Enable Output - System Defined Parameter			
KQI2106.TotalHours	0		DINT
Screw Press Conveyor 1 Total ETM			
KQI2106.TodaysHours	0		DINT
Screw Press Conveyor 1 Today's ETM			
KQI2106.YesterdaysHours	0		DINT
Screw Press Conveyor 1 Yesterday's ETM			
KQI2106.LastStartDate	0		DINT
Screw Press Conveyor 1 Last Start Date			
KQI2106.LastStartTime	0		DINT
Screw Press Conveyor 1 Last Start Time			
KQI2106.LastStopDate	8112022		DINT
Screw Press Conveyor 1 Last Stop Date			
KQI2106.LastStopTime	104631		DINT
Screw Press Conveyor 1 Last Stop Time			
KQI2106.TotalStarts	0		DINT
Screw Press Conveyor 1 Total Starts			
KQI2106.TodaysStarts	0		DINT
Screw Press Conveyor 1 Today's Starts			
KQI2106.YesterdaysStarts	0		DINT
Screw Press Conveyor 1 Yesterday's Starts			
KQI2106.StartsPerHour	0		DINT
Screw Press Conveyor 1 Calculated Number of Starts per Hour			
KQI2106.HourSP	0		DINT
Screw Press Conveyor 1 Hour to Rollover (0 - 23)			
KQI2106.MinuteSP	0		DINT
Screw Press Conveyor 1 Minute to Rollover (0 - 59)			
KQI2106.HMIReset	0		BOOL
Screw Press Conveyor 1			
KQI2106.Maint1Hours	0		DINT
Screw Press Conveyor 1 Maintenance 1 Hours			
KQI2106.Maint2Hours	0		DINT
Screw Press Conveyor 1 Maintenance 2 Hours			
KQI2106.Maint3Hours	0		DINT
Screw Press Conveyor 1 Maintenance 3 Hours			
KQI2106.Maint1Done	0		BOOL

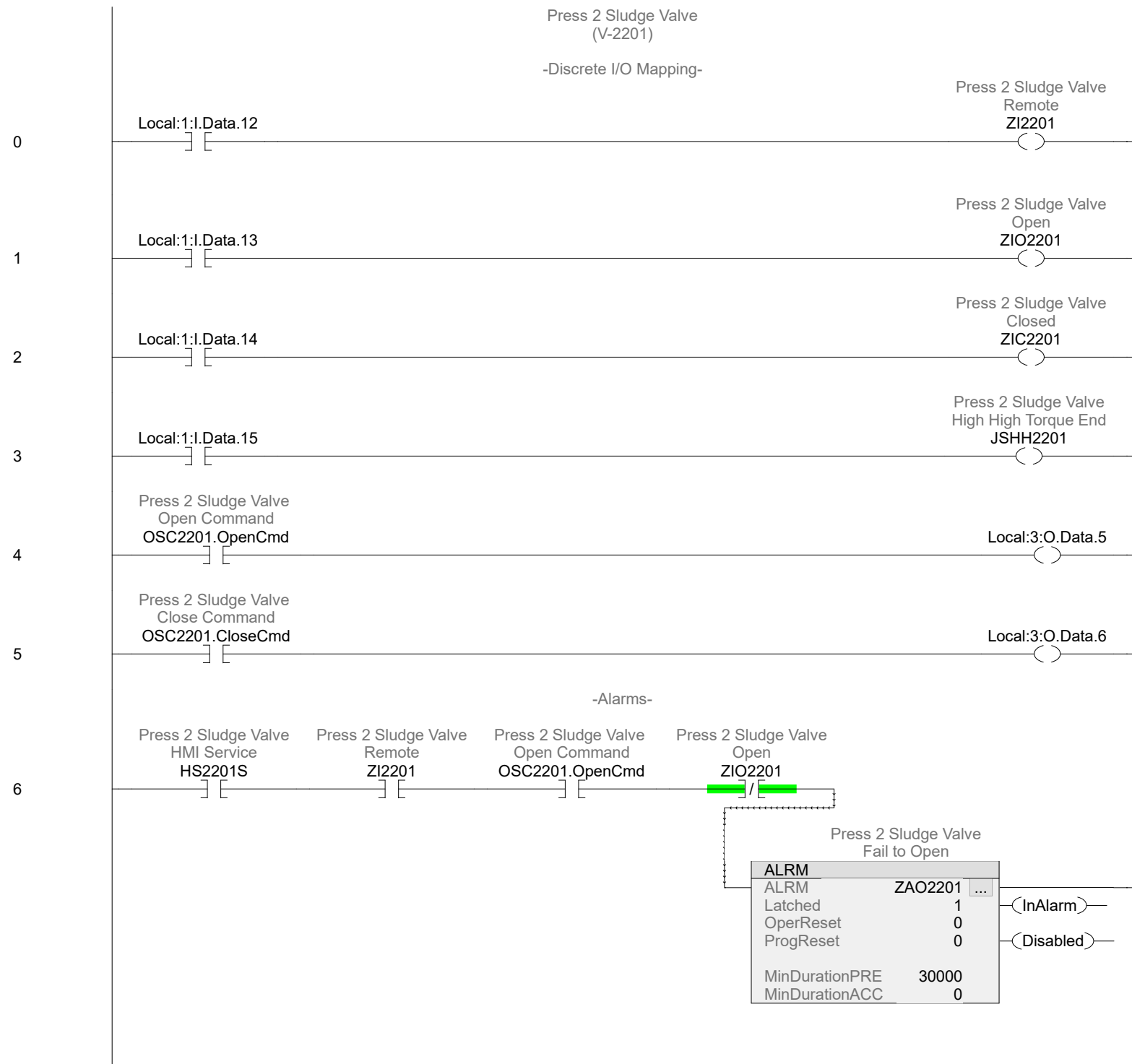
KQI2106 (Continued)		
Screw Press Conveyor 1 Maintenance 1 Due		
KQI2106.Maint2Done	0	BOOL
Screw Press Conveyor 1 Maintenance 2 Due		
KQI2106.Maint3Done	0	BOOL
Screw Press Conveyor 1 Maintenance 3 Due		
KQI2106.Maint1SP	50000	DINT
Screw Press Conveyor 1 Maintenance 1 Hours SP		
KQI2106.Maint2SP	50000	DINT
Screw Press Conveyor 1 Maintenance 2 Hours SP		
KQI2106.Maint3SP	50000	DINT
Screw Press Conveyor 1 Maintenance 3 Hours SP		
Local:2:I	AB:1769_DI16:I:0	PLC_SH
Constant	No	
External Access:	Read/Write	
Local:2:I.Data.0	0	BOOL
<i>Local:2:I.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - 0(XIC)</i>		
Local:2:I.Data.1	0	BOOL
<i>Local:2:I.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - 1(XIC)</i>		
Local:2:I.Data.2	0	BOOL
<i>Local:2:I.Data.2 - MainProgram/L2106_ScrewPressConveyor1 - 2(XIC)</i>		
Local:2:I.Data.3	0	BOOL
<i>Local:2:I.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - 0(XIC)</i>		
Local:2:I.Data.4	0	BOOL
<i>Local:2:I.Data.4 - MainProgram/L2206_ScrewPressConveyor2 - 1(XIC)</i>		
Local:2:I.Data.5	0	BOOL
<i>Local:2:I.Data.5 - MainProgram/L2206_ScrewPressConveyor2 - 2(XIC)</i>		
Local:2:I.Data.9	0	BOOL
<i>Local:2:I.Data.9 - MainProgram/L0000_Power - 0(XIC)</i>		
<i>Local:2:I.Data.9 - MainProgram/MainRoutine - 3(XIC)</i>		
Local:2:I.Data.10	0	BOOL
<i>Local:2:I.Data.10 - MainProgram/L0000_Intrusion - 0(XIC)</i>		
<i>Local:2:I.Data.10 - MainProgram/MainRoutine - 4(XIO)</i>		
Local:2:I.Data.11	0	BOOL
<i>Local:2:I.Data.11 - MainProgram/L0000_Power - 1(XIC)</i>		
Local:2:I.Data.12	1	BOOL
<i>Local:2:I.Data.12 - MainProgram/L0000_Power - 2(XIO)</i>		
Local:2:I.Data.13	1	BOOL
<i>Local:2:I.Data.13 - MainProgram/L0000_Power - 3(XIO)</i>		
Local:2:I.Data.14	1	BOOL
<i>Local:2:I.Data.14 - MainProgram/L0000_Power - 4(XIO)</i>		
Local:2:I.Data.15	0	BOOL
<i>Local:2:I.Data.15 - MainProgram/L0000_Power - 5(XIC)</i>		
Local:4:O	AB:1769_DO8:O:0	PLC_SH
Constant	No	
External Access:	Read/Write	
Local:4:O.Data.0	0	BOOL
<i>Local:4:O.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - *3(OTE)</i>		
Local:4:O.Data.1	0	BOOL
<i>Local:4:O.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - *4(OTE)</i>		
Local:4:O.Data.2	0	BOOL
<i>Local:4:O.Data.2 - MainProgram/L2206_ScrewPressConveyor2 - *3(OTE)</i>		
Local:4:O.Data.3	0	BOOL
<i>Local:4:O.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - *4(OTE)</i>		
PRESS1_ConveyorRunCMD	0	BOOL
Constant	No	
External Access:	Read/Write	
<i>PRESS1_ConveyorRunCMD - MainProgram/Communications - *9(OTE)</i>		
<i>PRESS1_ConveyorRunCMD - MainProgram/L2106_ScrewPressConveyor1 - 11(XIC)</i>		
YA2106	ALRM	PLC_SH

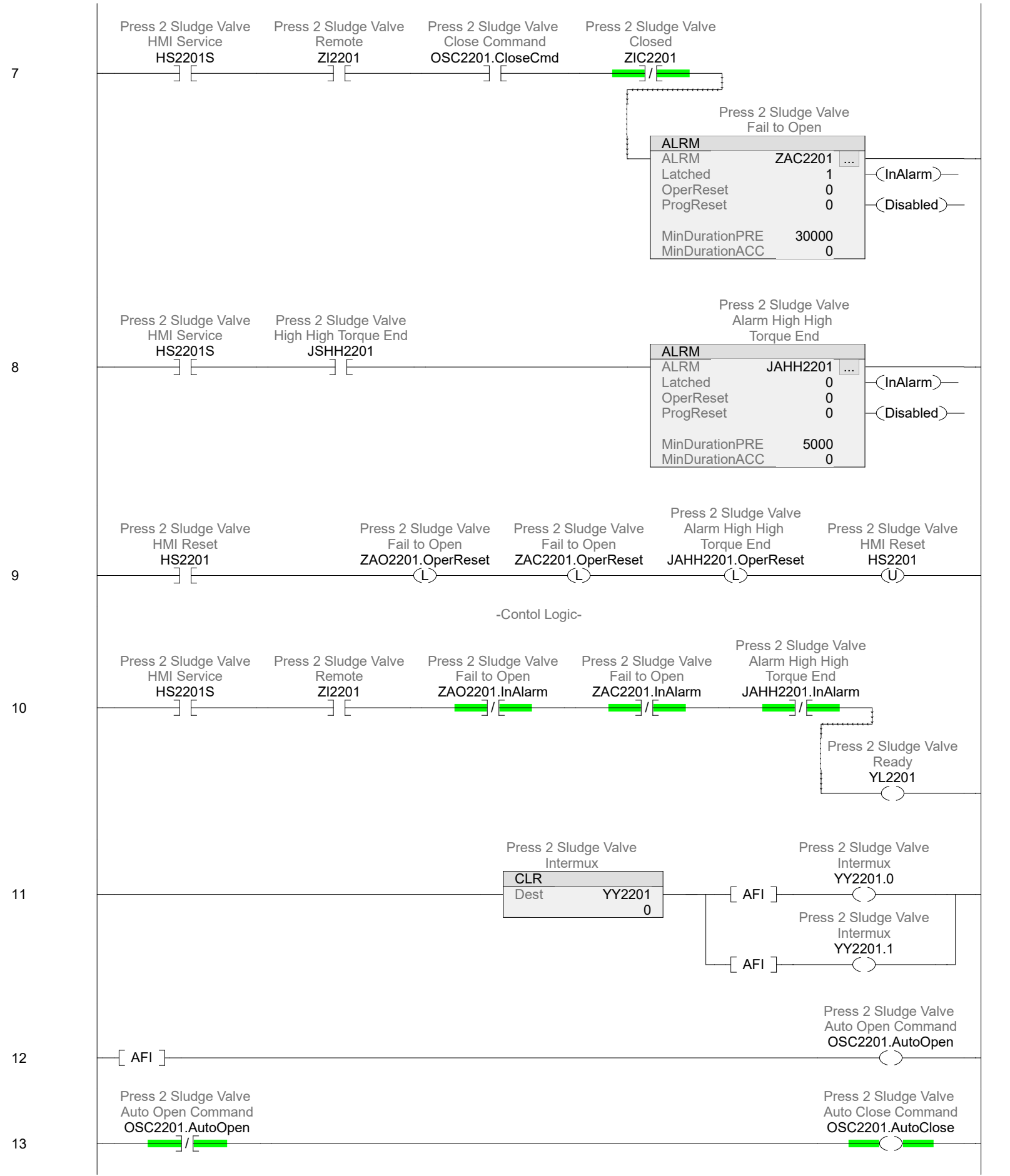
YA2106 (Continued)			
Screw Press Conveyor 1 Fail			
Constant	No		
External Access:	Read/Write		
<i>YA2106 - MainProgram/L2106_ScrewPressConveyor1 - *7(ALRM)</i>			
YA2106.EnableIn	0	BOOL	
Screw Press Conveyor 1 Fail Enable Input - System Defined Parameter			
YA2106.EnableOut	0	BOOL	
Screw Press Conveyor 1 Fail Enable Output - System Defined Parameter			
YA2106.Latched	0	BOOL	
Screw Press Conveyor 1 Fail			
YA2106.OperReset	0	BOOL	
Screw Press Conveyor 1 Fail			
<i>YA2106.OperReset - MainProgram/L2106_ScrewPressConveyor1 - *8(OTL)</i>			
YA2106.ProgReset	0	BOOL	
Screw Press Conveyor 1 Fail			
YA2106.OperDisable	0	BOOL	
Screw Press Conveyor 1 Fail			
YA2106.OperEnable	0	BOOL	
Screw Press Conveyor 1 Fail			
YA2106.AlarmCountReset	0	BOOL	
Screw Press Conveyor 1 Fail Set to 1 to reset alarm count			
YA2106.InAlarm	0	BOOL	
Screw Press Conveyor 1 Fail			
<i>YA2106.InAlarm - MainProgram/L2106_ScrewPressConveyor1 - 9(XIO)</i>			
YA2106.Disabled	0	BOOL	
Screw Press Conveyor 1 Fail			
YA2106.MinDurationPRE	0	DINT	
Screw Press Conveyor 1 Fail			
YA2106.MinDurationACC	0	DINT	
Screw Press Conveyor 1 Fail			
YA2106.AlarmCount	0	DINT	
Screw Press Conveyor 1 Fail			
YA2106.InAlarmDate	0	DINT	
Screw Press Conveyor 1 Fail			
YA2106.InAlarmTime	0	DINT	
Screw Press Conveyor 1 Fail			
YA2106.RetToNormalDate	0	DINT	
Screw Press Conveyor 1 Fail			
YA2106.RetToNormalTime	0	DINT	
Screw Press Conveyor 1 Fail			
YA2106.AlarmCountResetDate	0	DINT	
Screw Press Conveyor 1 Fail			
YA2106.AlarmCountResetTime	0	DINT	
Screw Press Conveyor 1 Fail			
YI2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI2106 - MainProgram/Communications - 30(XIC)</i>			
<i>YI2106 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>YI2106 - MainProgram/L2106_ScrewPressConveyor1 - *1(OTE), 14(XIC), 5(XIO), 6(XIC)</i>			
YL2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL2106 - MainProgram/L1100_PressControl - 3(XIO)</i>			
<i>YL2106 - MainProgram/L2106_ScrewPressConveyor1 - *9(OTE), 13(XIC)</i>			
YS2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 Fail Switch			
Constant	No		

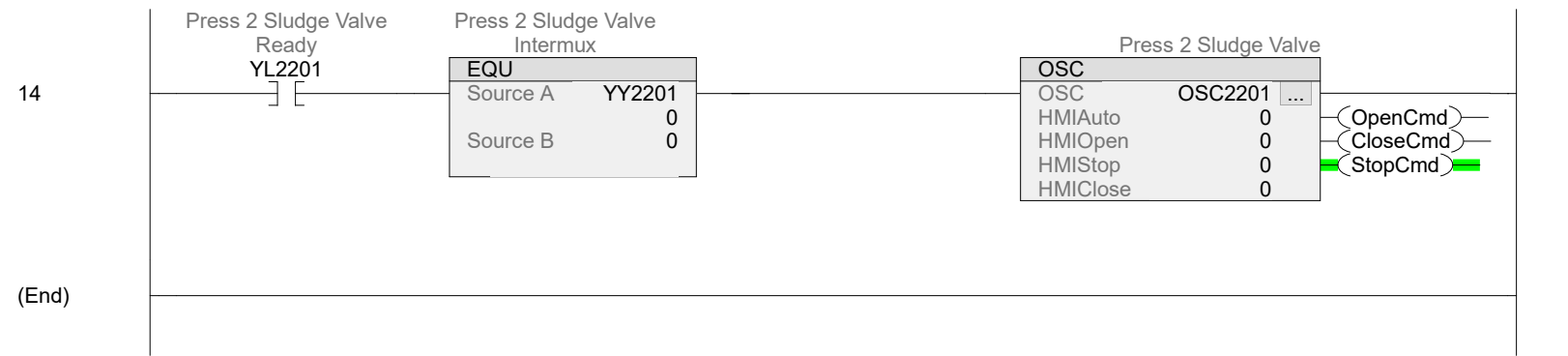
YS2106 (Continued)			
External Access:	Read/Write		
<i>YS2106 - MainProgram/L2106_ScrewPressConveyor1 - *2(OTE), 7(XIC)</i>			
YY2106	0	DINT	PLC_SH
Screw Press Conveyor 1 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY2106 - MainProgram/L2106_ScrewPressConveyor1 - *10(CLR), 13(EQU)</i>			
YY2106.0	0	BOOL	
Screw Press Conveyor 1 Intermux			
<i>YY2106.0 - MainProgram/L2106_ScrewPressConveyor1 - *10(OTE)</i>			
YY2106.1	0	BOOL	
Screw Press Conveyor 1 Intermux			
<i>YY2106.1 - MainProgram/L2106_ScrewPressConveyor1 - *10(OTE)</i>			
ZI2106	0	BOOL	PLC_SH
Screw Press Conveyor 1 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI2106 - MainProgram/L2106_ScrewPressConveyor1 - *0(OTE), 6(XIC), 9(XIC)</i>			

General

Type:	 Ladder Diagram	Number of Rungs:	15
In Program:	 MainProgram		







Name	Value	Data Type	Scope
HS2201	0	BOOL	PLC_SH
Press 2 Sludge Valve HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2201 - MainProgram/L2201_Press2_SludgeValve - *9(OTU), 9(XIC)</i>			
HS2201S	0	BOOL	PLC_SH
Press 2 Sludge Valve HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS2201S - MainProgram/L2201_Press2_SludgeValve - 10(XIC), 6(XIC), 7(XIC), 8(XIC)</i>			
JAHH2201		ALRM	PLC_SH
Press 2 Sludge Valve Alarm High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JAHH2201 - MainProgram/L2201_Press2_SludgeValve - *8(ALRM)</i>			
JAHH2201.EnableIn	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End Enable Input - System Defined Parameter			
JAHH2201.EnableOut	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End Enable Output - System Defined Parameter			
JAHH2201.Latched	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.OperReset	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
<i>JAHH2201.OperReset - MainProgram/L2201_Press2_SludgeValve - *9(OTL)</i>			
JAHH2201.ProgReset	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.OperDisable	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.OperEnable	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCountReset	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End Set to 1 to reset alarm count			
JAHH2201.InAlarm	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
<i>JAHH2201.InAlarm - MainProgram/L2201_Press2_SludgeValve - 10(XIO)</i>			
JAHH2201.Disabled	0	BOOL	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.MinDurationPRE	5000	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.MinDurationACC	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCount	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.InAlarmDate	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.InAlarmTime	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.RefToNormalDate	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.RefToNormalTime	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCountResetDate	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JAHH2201.AlarmCountResetTime	0	DINT	
Press 2 Sludge Valve Alarm High High Torque End			
JSHH2201	0	BOOL	PLC_SH
Press 2 Sludge Valve High High Torque End			
Constant	No		
External Access:	Read/Write		
<i>JSHH2201 - MainProgram/L2201_Press2_SludgeValve - *3(OTE), 8(XIC)</i>			

Local:1:I		AB:1769_DI16:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:1:I.Data.0	0	BOOL	
<i>Local:1:I.Data.0 - MainProgram/L1101_SHT1_ControlValve - 0(XIC)</i>			
Local:1:I.Data.1	0	BOOL	
<i>Local:1:I.Data.1 - MainProgram/L1101_SHT1_ControlValve - 1(XIC)</i>			
Local:1:I.Data.2	0	BOOL	
<i>Local:1:I.Data.2 - MainProgram/L1101_SHT1_ControlValve - 2(XIC)</i>			
Local:1:I.Data.3	0	BOOL	
<i>Local:1:I.Data.3 - MainProgram/L1101_SHT1_ControlValve - 3(XIC)</i>			
Local:1:I.Data.4	0	BOOL	
<i>Local:1:I.Data.4 - MainProgram/L1201_SHT2_ControlValve - 0(XIC)</i>			
Local:1:I.Data.5	0	BOOL	
<i>Local:1:I.Data.5 - MainProgram/L1201_SHT2_ControlValve - 1(XIC)</i>			
Local:1:I.Data.6	0	BOOL	
<i>Local:1:I.Data.6 - MainProgram/L1201_SHT2_ControlValve - 2(XIC)</i>			
Local:1:I.Data.7	0	BOOL	
<i>Local:1:I.Data.7 - MainProgram/L1201_SHT2_ControlValve - 3(XIC)</i>			
Local:1:I.Data.8	0	BOOL	
<i>Local:1:I.Data.8 - MainProgram/L2101_Press1_SludgeValve - 0(XIC)</i>			
Local:1:I.Data.9	0	BOOL	
<i>Local:1:I.Data.9 - MainProgram/L2101_Press1_SludgeValve - 1(XIC)</i>			
Local:1:I.Data.10	0	BOOL	
<i>Local:1:I.Data.10 - MainProgram/L2101_Press1_SludgeValve - 2(XIC)</i>			
Local:1:I.Data.11	0	BOOL	
<i>Local:1:I.Data.11 - MainProgram/L2101_Press1_SludgeValve - 3(XIC)</i>			
Local:1:I.Data.12	0	BOOL	
<i>Local:1:I.Data.12 - MainProgram/L2201_Press2_SludgeValve - 0(XIC)</i>			
Local:1:I.Data.13	0	BOOL	
<i>Local:1:I.Data.13 - MainProgram/L2201_Press2_SludgeValve - 1(XIC)</i>			
Local:1:I.Data.14	0	BOOL	
<i>Local:1:I.Data.14 - MainProgram/L2201_Press2_SludgeValve - 2(XIC)</i>			
Local:1:I.Data.15	0	BOOL	
<i>Local:1:I.Data.15 - MainProgram/L2201_Press2_SludgeValve - 3(XIC)</i>			
Local:3:O		AB:1769_DO8:O:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:3:O.Data.0	0	BOOL	
<i>Local:3:O.Data.0 - MainProgram/L1101_SHT1_ControlValve - *4(OTE)</i>			
Local:3:O.Data.1	0	BOOL	
<i>Local:3:O.Data.1 - MainProgram/L1101_SHT1_ControlValve - *5(OTE)</i>			
Local:3:O.Data.2	0	BOOL	
<i>Local:3:O.Data.2 - MainProgram/L1201_SHT2_ControlValve - *4(OTE)</i>			
Local:3:O.Data.3	0	BOOL	
<i>Local:3:O.Data.3 - MainProgram/L1201_SHT2_ControlValve - *5(OTE)</i>			
Local:3:O.Data.4	0	BOOL	
<i>Local:3:O.Data.4 - MainProgram/L2101_Press1_SludgeValve - *4(OTE)</i>			
Local:3:O.Data.5	0	BOOL	
<i>Local:3:O.Data.5 - MainProgram/L2101_Press1_SludgeValve - *5(OTE)</i>			
<i>Local:3:O.Data.5 - MainProgram/L2201_Press2_SludgeValve - *4(OTE)</i>			
Local:3:O.Data.6	0	BOOL	
<i>Local:3:O.Data.6 - MainProgram/L2201_Press2_SludgeValve - *5(OTE)</i>			
OSC2201		OSC	PLC_SH
Press 2 Sludge Valve			
Constant	No		
External Access:	Read/Write		
<i>OSC2201 - MainProgram/L2201_Press2_SludgeValve - *14(OSC)</i>			
OSC2201.EnableIn	0	BOOL	
Press 2 Sludge Valve Enable Input - System Defined Parameter			
OSC2201.EnableOut	0	BOOL	
Press 2 Sludge Valve Enable Output - System Defined Parameter			

OSC2201 (Continued)			
OSC2201.HMIAuto	0	BOOL	
Press 2 Sludge Valve HMI Auto			
<i>OSC2201.HMIAuto - MainProgram/L1100_PressControl - 4(XIO)</i>			
OSC2201.AutoOpen	0	BOOL	
Press 2 Sludge Valve Auto Open Command			
<i>OSC2201.AutoOpen - MainProgram/L2201_Press2_SludgeValve - *12(OTE), 13(XIO)</i>			
OSC2201.HMIOpen	0	BOOL	
Press 2 Sludge Valve HMI Manual Open			
OSC2201.HMIStop	0	BOOL	
Press 2 Sludge Valve HMI Manual Stop			
OSC2201.HMIClose	0	BOOL	
Press 2 Sludge Valve HMI Manual Close			
OSC2201.OpenCmd	0	BOOL	
Press 2 Sludge Valve Open Command			
<i>OSC2201.OpenCmd - MainProgram/L2201_Press2_SludgeValve - 4(XIC), 6(XIC)</i>			
OSC2201.AutoClose	1	BOOL	
Press 2 Sludge Valve Auto Close Command			
<i>OSC2201.AutoClose - MainProgram/L2201_Press2_SludgeValve - *13(OTE)</i>			
OSC2201.AutoStop	0	BOOL	
Press 2 Sludge Valve Auto Stop Command			
OSC2201.CloseCmd	0	BOOL	
Press 2 Sludge Valve Close Command			
<i>OSC2201.CloseCmd - MainProgram/L2201_Press2_SludgeValve - 5(XIC), 7(XIC)</i>			
OSC2201.StopCmd	1	BOOL	
Press 2 Sludge Valve Stop Command			
YL2201	0	BOOL	PLC_SH
Press 2 Sludge Valve Ready			
Constant No			
External Access: Read/Write			
<i>YL2201 - MainProgram/L1100_PressControl - 4(XIO)</i>			
<i>YL2201 - MainProgram/L2201_Press2_SludgeValve - *10(OTE), 14(XIC)</i>			
YY2201	0	DINT	PLC_SH
Press 2 Sludge Valve Intermux			
Constant No			
External Access: Read/Write			
<i>YY2201 - MainProgram/L2201_Press2_SludgeValve - *11(CLR), 14(EQU)</i>			
YY2201.0	0	BOOL	
Press 2 Sludge Valve Intermux			
<i>YY2201.0 - MainProgram/L2201_Press2_SludgeValve - *11(OTE)</i>			
YY2201.1	0	BOOL	
Press 2 Sludge Valve Intermux			
<i>YY2201.1 - MainProgram/L2201_Press2_SludgeValve - *11(OTE)</i>			
ZAC2201		ALRM	PLC_SH
Press 2 Sludge Valve Fail to Open			
Constant No			
External Access: Read/Write			
<i>ZAC2201 - MainProgram/L2201_Press2_SludgeValve - *7(ALRM)</i>			
ZAC2201.EnableIn	0	BOOL	
Press 2 Sludge Valve Fail to Open Enable Input - System Defined Parameter			
ZAC2201.EnableOut	0	BOOL	
Press 2 Sludge Valve Fail to Open Enable Output - System Defined Parameter			
ZAC2201.Latched	1	BOOL	
Press 2 Sludge Valve Fail to Open			
ZAC2201.OperReset	0	BOOL	
Press 2 Sludge Valve Fail to Open			
<i>ZAC2201.OperReset - MainProgram/L2201_Press2_SludgeValve - *9(OTL)</i>			
ZAC2201.ProgReset	0	BOOL	
Press 2 Sludge Valve Fail to Open			
ZAC2201.OperDisable	0	BOOL	
Press 2 Sludge Valve Fail to Open			

ZAC2201 (Continued)		
ZAC2201.OperEnable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCountReset	0	BOOL
Press 2 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAC2201.InAlarm	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAC2201.InAlarm - MainProgram/L2201_Press2_SludgeValve - 10(XIO)</i>		
ZAC2201.Disabled	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAC2201.MinDurationPRE	30000	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.MinDurationACC	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCount	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.InAlarmDate	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.InAlarmTime	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.RetToNormalDate	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.RetToNormalTime	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCountResetDate	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAC2201.AlarmCountResetTime	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAO2201		ALRM
Press 2 Sludge Valve Fail to Open		
Constant	No	
External Access:	Read/Write	
<i>ZAO2201 - MainProgram/L2201_Press2_SludgeValve - *6(ALRM)</i>		
ZAO2201.EnableIn	0	BOOL
Press 2 Sludge Valve Fail to Open Enable Input - System Defined Parameter		
ZAO2201.EnableOut	0	BOOL
Press 2 Sludge Valve Fail to Open Enable Output - System Defined Parameter		
ZAO2201.Latched	1	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.OperReset	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAO2201.OperReset - MainProgram/L2201_Press2_SludgeValve - *9(OTL)</i>		
ZAO2201.ProgReset	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.OperDisable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.OperEnable	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.AlarmCountReset	0	BOOL
Press 2 Sludge Valve Fail to Open Set to 1 to reset alarm count		
ZAO2201.InAlarm	0	BOOL
Press 2 Sludge Valve Fail to Open		
<i>ZAO2201.InAlarm - MainProgram/L2201_Press2_SludgeValve - 10(XIO)</i>		
ZAO2201.Disabled	0	BOOL
Press 2 Sludge Valve Fail to Open		
ZAO2201.MinDurationPRE	30000	DINT
Press 2 Sludge Valve Fail to Open		
ZAO2201.MinDurationACC	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAO2201.AlarmCount	0	DINT
Press 2 Sludge Valve Fail to Open		
ZAO2201.InAlarmDate	0	DINT
Press 2 Sludge Valve Fail to Open		

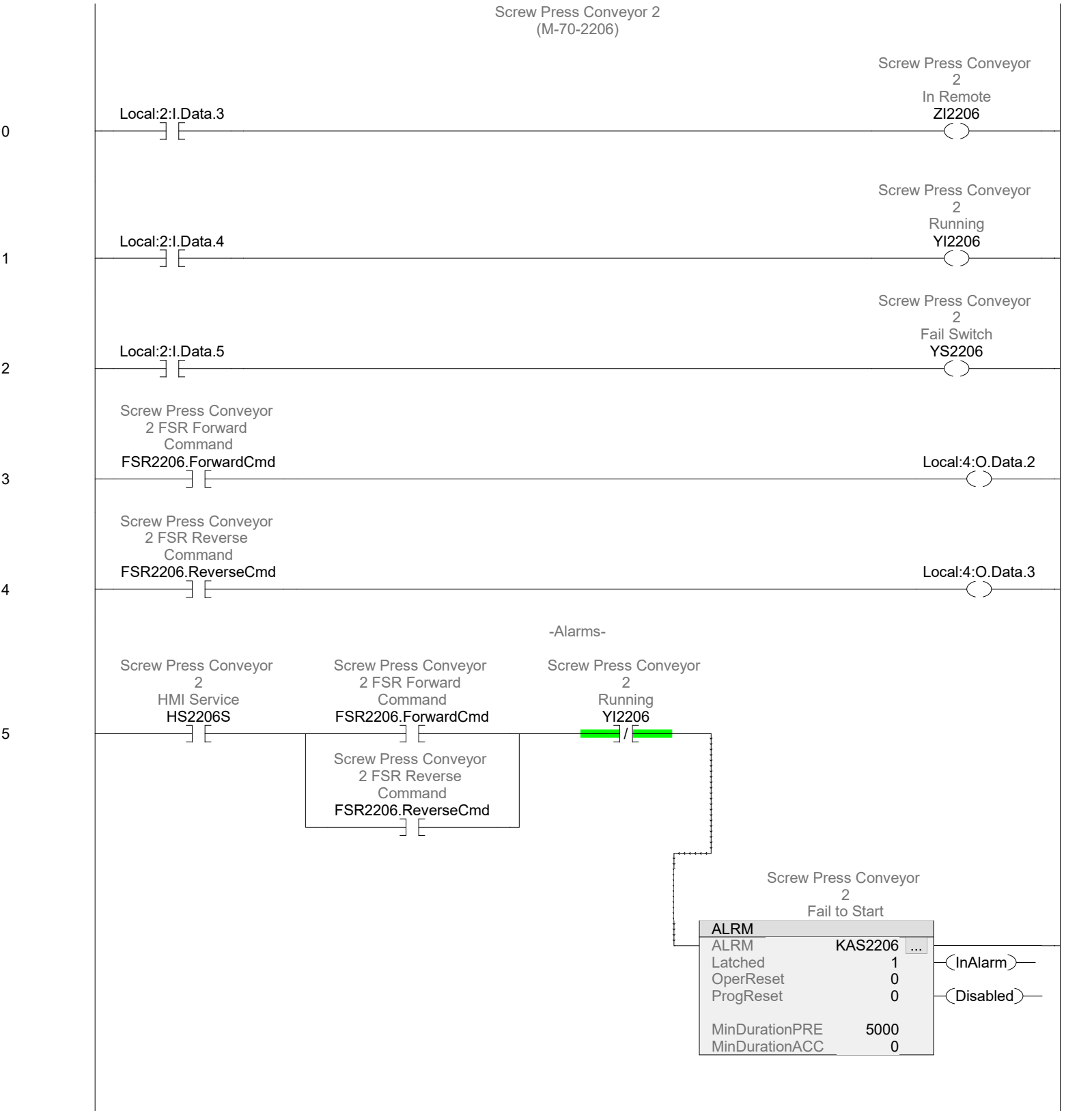
PLC_SH

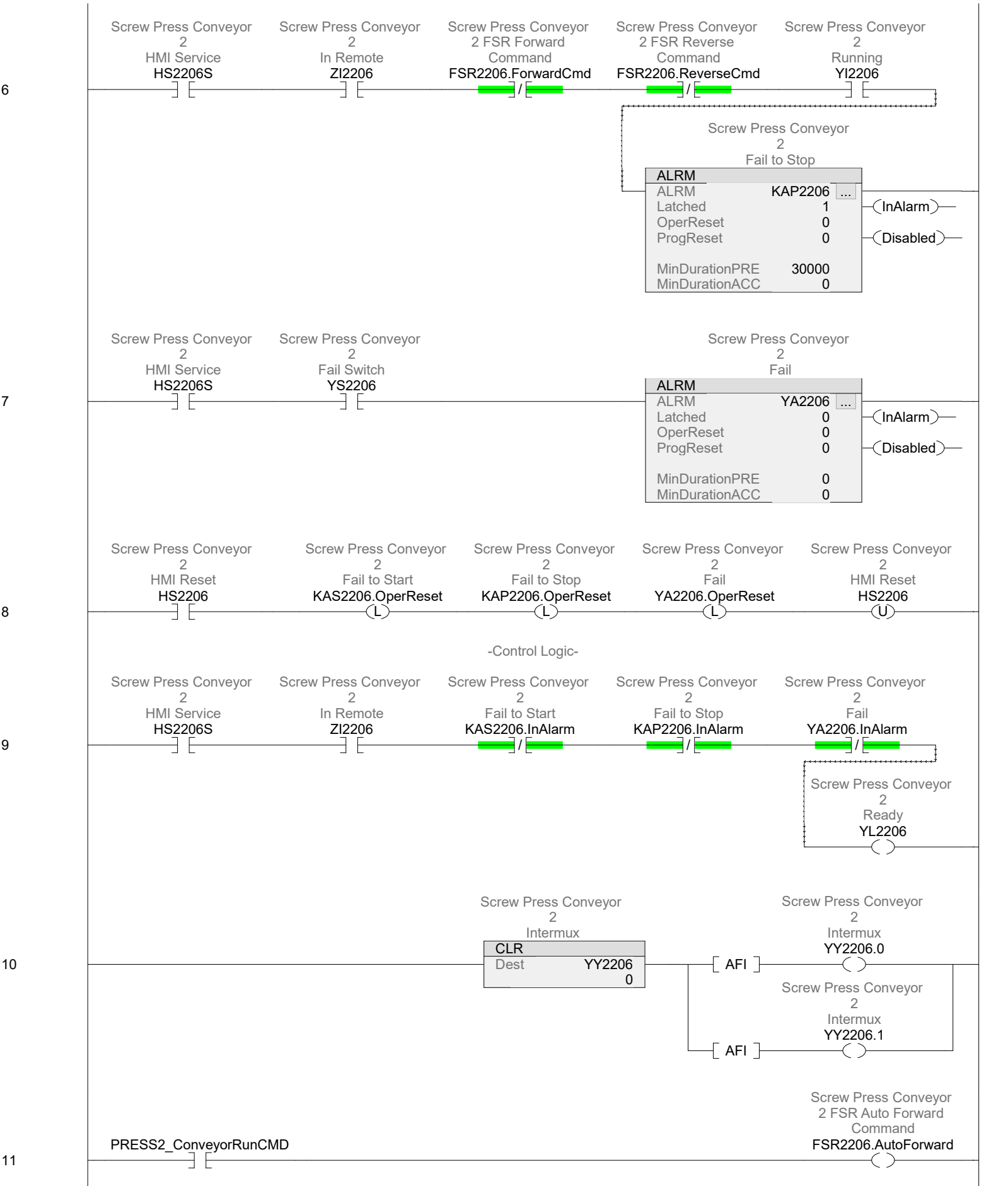
ZAO2201 (Continued)			
ZAO2201.InAlarmTime	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.RetToNormalDate	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.RetToNormalTime	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.AlarmCountResetDate	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZAO2201.AlarmCountResetTime	0	DINT	
Press 2 Sludge Valve Fail to Open			
ZI2201	0	BOOL	PLC_SH
Press 2 Sludge Valve Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI2201 - MainProgram/L2201_Press2_SludgeValve - *0(OTE), 10(XIC), 6(XIC), 7(XIC)</i>			
ZIC2201	0	BOOL	PLC_SH
Press 2 Sludge Valve Closed			
Constant	No		
External Access:	Read/Write		
<i>ZIC2201 - MainProgram/L2201_Press2_SludgeValve - *2(OTE), 7(XIO)</i>			
ZIO2201	0	BOOL	PLC_SH
Press 2 Sludge Valve Open			
Constant	No		
External Access:	Read/Write		
<i>ZIO2201 - MainProgram/Communications - 30(XIC)</i>			
<i>ZIO2201 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>ZIO2201 - MainProgram/L2201_Press2_SludgeValve - *1(OTE), 6(XIO)</i>			

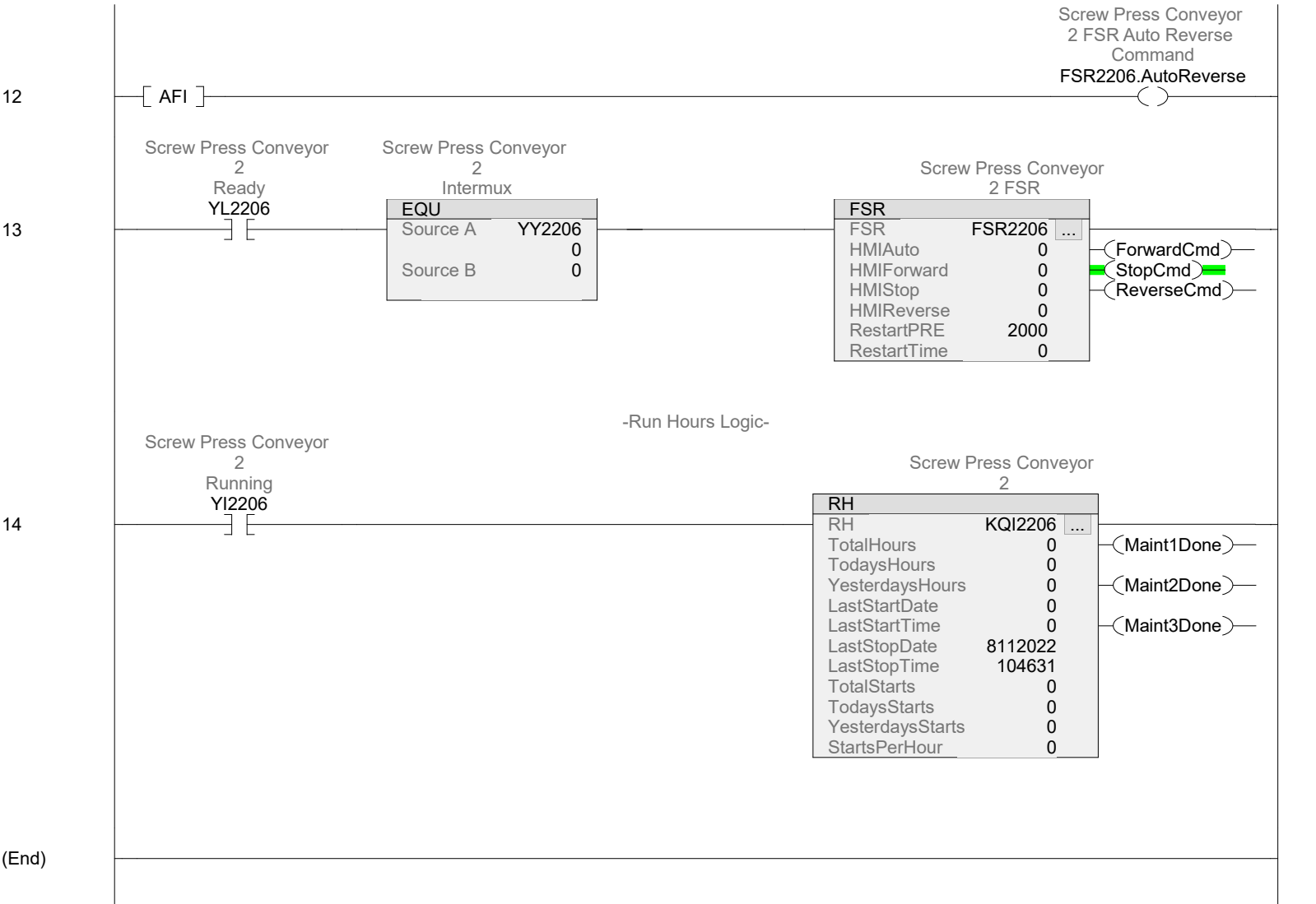
General

Type:	 Ladder Diagram	Number of Rungs:	15
In Program:	 MainProgram		

Screw Press Conveyor 2
(M-70-2206)







Name	Value	Data Type	Scope
FSR2206		FSR	PLC_SH
Screw Press Conveyor 2 FSR			
Constant	No		
External Access:	Read/Write		
<i>FSR2206 - MainProgram/L2206_ScrewPressConveyor2 - *13(FSR)</i>			
FSR2206.EnableIn	0	BOOL	
Screw Press Conveyor 2 FSR Enable Input - System Defined Parameter			
FSR2206.EnableOut	0	BOOL	
Screw Press Conveyor 2 FSR Enable Output - System Defined Parameter			
FSR2206.HMIAuto	0	BOOL	
Screw Press Conveyor 2 FSR HMI Auto			
<i>FSR2206.HMIAuto - MainProgram/L1100_PressControl - 4(XIO)</i>			
FSR2206.AutoForward	0	BOOL	
Screw Press Conveyor 2 FSR Auto Forward Command			
<i>FSR2206.AutoForward - MainProgram/L2206_ScrewPressConveyor2 - *11(OTE)</i>			
FSR2206.AutoStop	0	BOOL	
Screw Press Conveyor 2 FSR Auto Stop Command			
FSR2206.AutoReverse	0	BOOL	
Screw Press Conveyor 2 FSR Auto Reverse Command			
<i>FSR2206.AutoReverse - MainProgram/L2206_ScrewPressConveyor2 - *12(OTE)</i>			
FSR2206.HMIForward	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Forward			
FSR2206.HMIStop	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Stop			
FSR2206.HMIReverse	0	BOOL	
Screw Press Conveyor 2 FSR HMI Manual Reverse			
FSR2206.ForwardCmd	0	BOOL	
Screw Press Conveyor 2 FSR Forward Command			
<i>FSR2206.ForwardCmd - MainProgram/L2206_ScrewPressConveyor2 - 3(XIC), 5(XIC), 6(XIO)</i>			
FSR2206.StopCmd	1	BOOL	
Screw Press Conveyor 2 FSR Stop Command			
FSR2206.ReverseCmd	0	BOOL	
Screw Press Conveyor 2 FSR Reverse Command			
<i>FSR2206.ReverseCmd - MainProgram/L2206_ScrewPressConveyor2 - 4(XIC), 5(XIC), 6(XIO)</i>			
FSR2206.RestartActive	0	BOOL	
Screw Press Conveyor 2 FSR Restart Delay Active			
FSR2206.RestartPRE	2000	DINT	
Screw Press Conveyor 2 FSR Restart Delay Preset (Milliseconds)			
FSR2206.RestartTime	0	DINT	
Screw Press Conveyor 2 FSR Actual Restart Time (Times Down)			
HS2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS2206 - MainProgram/L2206_ScrewPressConveyor2 - *8(OTU), 8(XIC)</i>			
HS2206S	0	BOOL	PLC_SH
Screw Press Conveyor 2 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS2206S - MainProgram/L2206_ScrewPressConveyor2 - 5(XIC), 6(XIC), 7(XIC), 9(XIC)</i>			
KAP2206		ALRM	PLC_SH
Screw Press Conveyor 2 Fail to Stop			
Constant	No		
External Access:	Read/Write		
<i>KAP2206 - MainProgram/L2206_ScrewPressConveyor2 - *6(ALRM)</i>			
KAP2206.EnableIn	0	BOOL	
Screw Press Conveyor 2 Fail to Stop Enable Input - System Defined Parameter			
KAP2206.EnableOut	0	BOOL	
Screw Press Conveyor 2 Fail to Stop Enable Output - System Defined Parameter			
KAP2206.Latched	1	BOOL	

KAP2206 (Continued)

Screw Press Conveyor 2 Fail to Stop		
KAP2206.OperReset	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
<i>KAP2206.OperReset - MainProgram/L2206_ScrewPressConveyor2 - *8(OTL)</i>		
KAP2206.ProgReset	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.OperDisable	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.OperEnable	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCountReset	0	BOOL
Screw Press Conveyor 2 Fail to Stop Set to 1 to reset alarm count		
KAP2206.InAlarm	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
<i>KAP2206.InAlarm - MainProgram/L2206_ScrewPressConveyor2 - 9(XIO)</i>		
KAP2206.Disabled	0	BOOL
Screw Press Conveyor 2 Fail to Stop		
KAP2206.MinDurationPRE	30000	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.MinDurationACC	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCount	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.InAlarmDate	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.InAlarmTime	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.RetToNormalDate	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.RetToNormalTime	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCountResetDate	0	DINT
Screw Press Conveyor 2 Fail to Stop		
KAP2206.AlarmCountResetTime	0	DINT
Screw Press Conveyor 2 Fail to Stop		

KAS2206		ALRM	PLC_SH
Screw Press Conveyor 2 Fail to Start			
Constant	No		
External Access:	Read/Write		
<i>KAS2206 - MainProgram/L2206_ScrewPressConveyor2 - *5(ALRM)</i>			
KAS2206.EnableIn	0	BOOL	
Screw Press Conveyor 2 Fail to Start Enable Input - System Defined Parameter			
KAS2206.EnableOut	0	BOOL	
Screw Press Conveyor 2 Fail to Start Enable Output - System Defined Parameter			
KAS2206.Latched	1	BOOL	
Screw Press Conveyor 2 Fail to Start			
KAS2206.OperReset	0	BOOL	
Screw Press Conveyor 2 Fail to Start			
<i>KAS2206.OperReset - MainProgram/L2206_ScrewPressConveyor2 - *8(OTL)</i>			
KAS2206.ProgReset	0	BOOL	
Screw Press Conveyor 2 Fail to Start			
KAS2206.OperDisable	0	BOOL	
Screw Press Conveyor 2 Fail to Start			
KAS2206.OperEnable	0	BOOL	
Screw Press Conveyor 2 Fail to Start			
KAS2206.AlarmCountReset	0	BOOL	
Screw Press Conveyor 2 Fail to Start Set to 1 to reset alarm count			
KAS2206.InAlarm	0	BOOL	
Screw Press Conveyor 2 Fail to Start			
<i>KAS2206.InAlarm - MainProgram/L2206_ScrewPressConveyor2 - 9(XIO)</i>			
KAS2206.Disabled	0	BOOL	
Screw Press Conveyor 2 Fail to Start			

KAS2206 (Continued)		
KAS2206.MinDurationPRE	5000	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.MinDurationACC	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCount	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.InAlarmDate	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.InAlarmTime	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.RetToNormalDate	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.RetToNormalTime	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCountResetDate	0	DINT
Screw Press Conveyor 2 Fail to Start		
KAS2206.AlarmCountResetTime	0	DINT
Screw Press Conveyor 2 Fail to Start		
KQI2206		RH
Screw Press Conveyor 2		
Constant	No	
External Access:	Read/Write	
<i>KQI2206 - MainProgram/L2206_ScrewPressConveyor2 - *I4(RH)</i>		
KQI2206.EnableIn	0	BOOL
Screw Press Conveyor 2 Enable Input - System Defined Parameter		
KQI2206.EnableOut	0	BOOL
Screw Press Conveyor 2 Enable Output - System Defined Parameter		
KQI2206.TotalHours	0	DINT
Screw Press Conveyor 2 Total ETM		
KQI2206.TodaysHours	0	DINT
Screw Press Conveyor 2 Today's ETM		
KQI2206.YesterdaysHours	0	DINT
Screw Press Conveyor 2 Yesterday's ETM		
KQI2206.LastStartDate	0	DINT
Screw Press Conveyor 2 Last Start Date		
KQI2206.LastStartTime	0	DINT
Screw Press Conveyor 2 Last Start Time		
KQI2206.LastStopDate	8112022	DINT
Screw Press Conveyor 2 Last Stop Date		
KQI2206.LastStopTime	104631	DINT
Screw Press Conveyor 2 Last Stop Time		
KQI2206.TotalStarts	0	DINT
Screw Press Conveyor 2 Total Starts		
KQI2206.TodaysStarts	0	DINT
Screw Press Conveyor 2 Today's Starts		
KQI2206.YesterdaysStarts	0	DINT
Screw Press Conveyor 2 Yesterday's Starts		
KQI2206.StartsPerHour	0	DINT
Screw Press Conveyor 2 Calculated Number of Starts per Hour		
KQI2206.HourSP	0	DINT
Screw Press Conveyor 2 Hour to Rollover (0 - 23)		
KQI2206.MinuteSP	0	DINT
Screw Press Conveyor 2 Minute to Rollover (0 - 59)		
KQI2206.HMIReset	0	BOOL
Screw Press Conveyor 2		
KQI2206.Maint1Hours	0	DINT
Screw Press Conveyor 2 Maintenance 1 Hours		
KQI2206.Maint2Hours	0	DINT
Screw Press Conveyor 2 Maintenance 2 Hours		
KQI2206.Maint3Hours	0	DINT
Screw Press Conveyor 2 Maintenance 3 Hours		
KQI2206.Maint1Done	0	BOOL

KQI2206 (Continued)		
Screw Press Conveyor 2 Maintenance 1 Due		
KQI2206.Maint2Done	0	BOOL
Screw Press Conveyor 2 Maintenance 2 Due		
KQI2206.Maint3Done	0	BOOL
Screw Press Conveyor 2 Maintenance 3 Due		
KQI2206.Maint1SP	50000	DINT
Screw Press Conveyor 2 Maintenance 1 Hours SP		
KQI2206.Maint2SP	50000	DINT
Screw Press Conveyor 2 Maintenance 2 Hours SP		
KQI2206.Maint3SP	50000	DINT
Screw Press Conveyor 2 Maintenance 3 Hours SP		
Local:2:I		AB:1769_DI16:I:0
Constant	No	
External Access:	Read/Write	
Local:2:I.Data.0	0	BOOL
<i>Local:2:I.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - 0(XIC)</i>		
Local:2:I.Data.1	0	BOOL
<i>Local:2:I.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - 1(XIC)</i>		
Local:2:I.Data.2	0	BOOL
<i>Local:2:I.Data.2 - MainProgram/L2106_ScrewPressConveyor1 - 2(XIC)</i>		
Local:2:I.Data.3	0	BOOL
<i>Local:2:I.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - 0(XIC)</i>		
Local:2:I.Data.4	0	BOOL
<i>Local:2:I.Data.4 - MainProgram/L2206_ScrewPressConveyor2 - 1(XIC)</i>		
Local:2:I.Data.5	0	BOOL
<i>Local:2:I.Data.5 - MainProgram/L2206_ScrewPressConveyor2 - 2(XIC)</i>		
Local:2:I.Data.9	0	BOOL
<i>Local:2:I.Data.9 - MainProgram/L0000_Power - 0(XIC)</i>		
<i>Local:2:I.Data.9 - MainProgram/MainRoutine - 3(XIC)</i>		
Local:2:I.Data.10	0	BOOL
<i>Local:2:I.Data.10 - MainProgram/L0000_Intrusion - 0(XIC)</i>		
<i>Local:2:I.Data.10 - MainProgram/MainRoutine - 4(XIO)</i>		
Local:2:I.Data.11	0	BOOL
<i>Local:2:I.Data.11 - MainProgram/L0000_Power - 1(XIC)</i>		
Local:2:I.Data.12	1	BOOL
<i>Local:2:I.Data.12 - MainProgram/L0000_Power - 2(XIO)</i>		
Local:2:I.Data.13	1	BOOL
<i>Local:2:I.Data.13 - MainProgram/L0000_Power - 3(XIO)</i>		
Local:2:I.Data.14	1	BOOL
<i>Local:2:I.Data.14 - MainProgram/L0000_Power - 4(XIO)</i>		
Local:2:I.Data.15	0	BOOL
<i>Local:2:I.Data.15 - MainProgram/L0000_Power - 5(XIC)</i>		
Local:4:O		AB:1769_DO8:O:0
Constant	No	
External Access:	Read/Write	
Local:4:O.Data.0	0	BOOL
<i>Local:4:O.Data.0 - MainProgram/L2106_ScrewPressConveyor1 - *3(OTE)</i>		
Local:4:O.Data.1	0	BOOL
<i>Local:4:O.Data.1 - MainProgram/L2106_ScrewPressConveyor1 - *4(OTE)</i>		
Local:4:O.Data.2	0	BOOL
<i>Local:4:O.Data.2 - MainProgram/L2206_ScrewPressConveyor2 - *3(OTE)</i>		
Local:4:O.Data.3	0	BOOL
<i>Local:4:O.Data.3 - MainProgram/L2206_ScrewPressConveyor2 - *4(OTE)</i>		
PRESS2_ConveyorRunCMD	0	BOOL
Constant	No	
External Access:	Read/Write	
<i>PRESS2_ConveyorRunCMD - MainProgram/Communications - *24(OTE)</i>		
<i>PRESS2_ConveyorRunCMD - MainProgram/L2206_ScrewPressConveyor2 - 11(XIC)</i>		
YA2206		ALRM

YA2206 (Continued)			
Screw Press Conveyor 2 Fail			
Constant	No		
External Access:	Read/Write		
<i>YA2206 - MainProgram/L2206_ScrewPressConveyor2 - *7(ALRM)</i>			
YA2206.EnableIn	0	BOOL	
Screw Press Conveyor 2 Fail Enable Input - System Defined Parameter			
YA2206.EnableOut	0	BOOL	
Screw Press Conveyor 2 Fail Enable Output - System Defined Parameter			
YA2206.Latched	0	BOOL	
Screw Press Conveyor 2 Fail			
YA2206.OperReset	0	BOOL	
Screw Press Conveyor 2 Fail			
<i>YA2206.OperReset - MainProgram/L2206_ScrewPressConveyor2 - *8(OTL)</i>			
YA2206.ProgReset	0	BOOL	
Screw Press Conveyor 2 Fail			
YA2206.OperDisable	0	BOOL	
Screw Press Conveyor 2 Fail			
YA2206.OperEnable	0	BOOL	
Screw Press Conveyor 2 Fail			
YA2206.AlarmCountReset	0	BOOL	
Screw Press Conveyor 2 Fail Set to 1 to reset alarm count			
YA2206.InAlarm	0	BOOL	
Screw Press Conveyor 2 Fail			
<i>YA2206.InAlarm - MainProgram/L2206_ScrewPressConveyor2 - 9(XIO)</i>			
YA2206.Disabled	0	BOOL	
Screw Press Conveyor 2 Fail			
YA2206.MinDurationPRE	0	DINT	
Screw Press Conveyor 2 Fail			
YA2206.MinDurationACC	0	DINT	
Screw Press Conveyor 2 Fail			
YA2206.AlarmCount	0	DINT	
Screw Press Conveyor 2 Fail			
YA2206.InAlarmDate	0	DINT	
Screw Press Conveyor 2 Fail			
YA2206.InAlarmTime	0	DINT	
Screw Press Conveyor 2 Fail			
YA2206.RetToNormalDate	0	DINT	
Screw Press Conveyor 2 Fail			
YA2206.RetToNormalTime	0	DINT	
Screw Press Conveyor 2 Fail			
YA2206.AlarmCountResetDate	0	DINT	
Screw Press Conveyor 2 Fail			
YA2206.AlarmCountResetTime	0	DINT	
Screw Press Conveyor 2 Fail			
YI2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI2206 - MainProgram/Communications - 30(XIC)</i>			
<i>YI2206 - MainProgram/L1100_PressControl - 7(XIC)</i>			
<i>YI2206 - MainProgram/L2206_ScrewPressConveyor2 - *1(OTE), 14(XIC), 5(XIO), 6(XIC)</i>			
YL2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL2206 - MainProgram/L1100_PressControl - 4(XIO)</i>			
<i>YL2206 - MainProgram/L2206_ScrewPressConveyor2 - *9(OTE), 13(XIC)</i>			
YS2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 Fail Switch			
Constant	No		

YS2206 (Continued)			
External Access:	Read/Write		
<i>YS2206 - MainProgram/L2206_ScrewPressConveyor2 - *2(OTE), 7(XIC)</i>			
YY2206	0	DINT	PLC_SH
Screw Press Conveyor 2 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY2206 - MainProgram/L2206_ScrewPressConveyor2 - *10(CLR), 13(EQU)</i>			
YY2206.0	0	BOOL	
Screw Press Conveyor 2 Intermux			
<i>YY2206.0 - MainProgram/L2206_ScrewPressConveyor2 - *10(OTE)</i>			
YY2206.1	0	BOOL	
Screw Press Conveyor 2 Intermux			
<i>YY2206.1 - MainProgram/L2206_ScrewPressConveyor2 - *10(OTE)</i>			
ZI2206	0	BOOL	PLC_SH
Screw Press Conveyor 2 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI2206 - MainProgram/L2206_ScrewPressConveyor2 - *0(OTE), 6(XIC), 9(XIC)</i>			

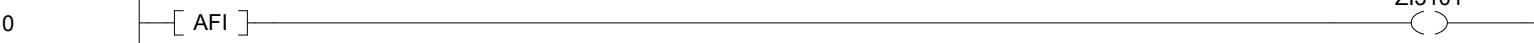
General

Type:	 Ladder Diagram	Number of Rungs:	15
In Program:	 MainProgram		

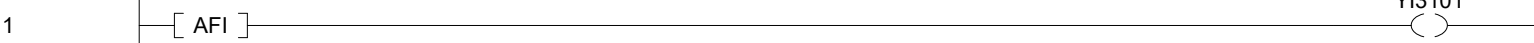
Sludge Pump 1 VFD
(P-70-1104)

This is going to be a network controlled drive

Aeration Blower 1
In Remote
ZI3101



Aeration Blower 1
Running
YI3101

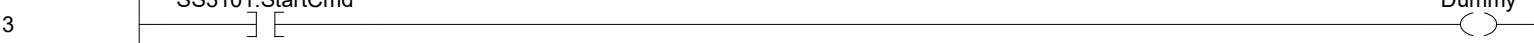


Aeration Blower 1
Fail Switch
YS3101



Aeration Blower 1
Start Command
SS3101.StartCmd

Dummy



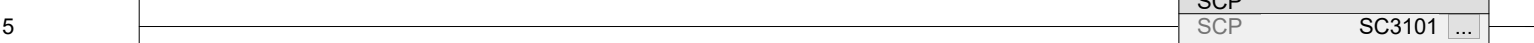
Aeration Blower 1
Speed

SCP	
SCP	SI3101 ...
Input	0.0
InputMin	4000.0
InputMax	20000.0
OutputMin	0.0
OutputMax	60.0
Output	0.0



Aeration Blower 1
Speed Control

SCP	
SCP	SC3101 ...
Input	41.99942
InputMin	0.0
InputMax	60.0
OutputMin	4000.0
OutputMax	20000.0
Output	15199.846



-Alarms-

Aeration Blower 1
HMI Service
HS3101S

Aeration Blower 1
Start Command
SS3101.StartCmd

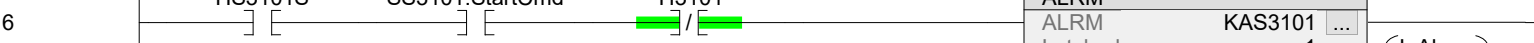
Aeration Blower 1
Running
YI3101

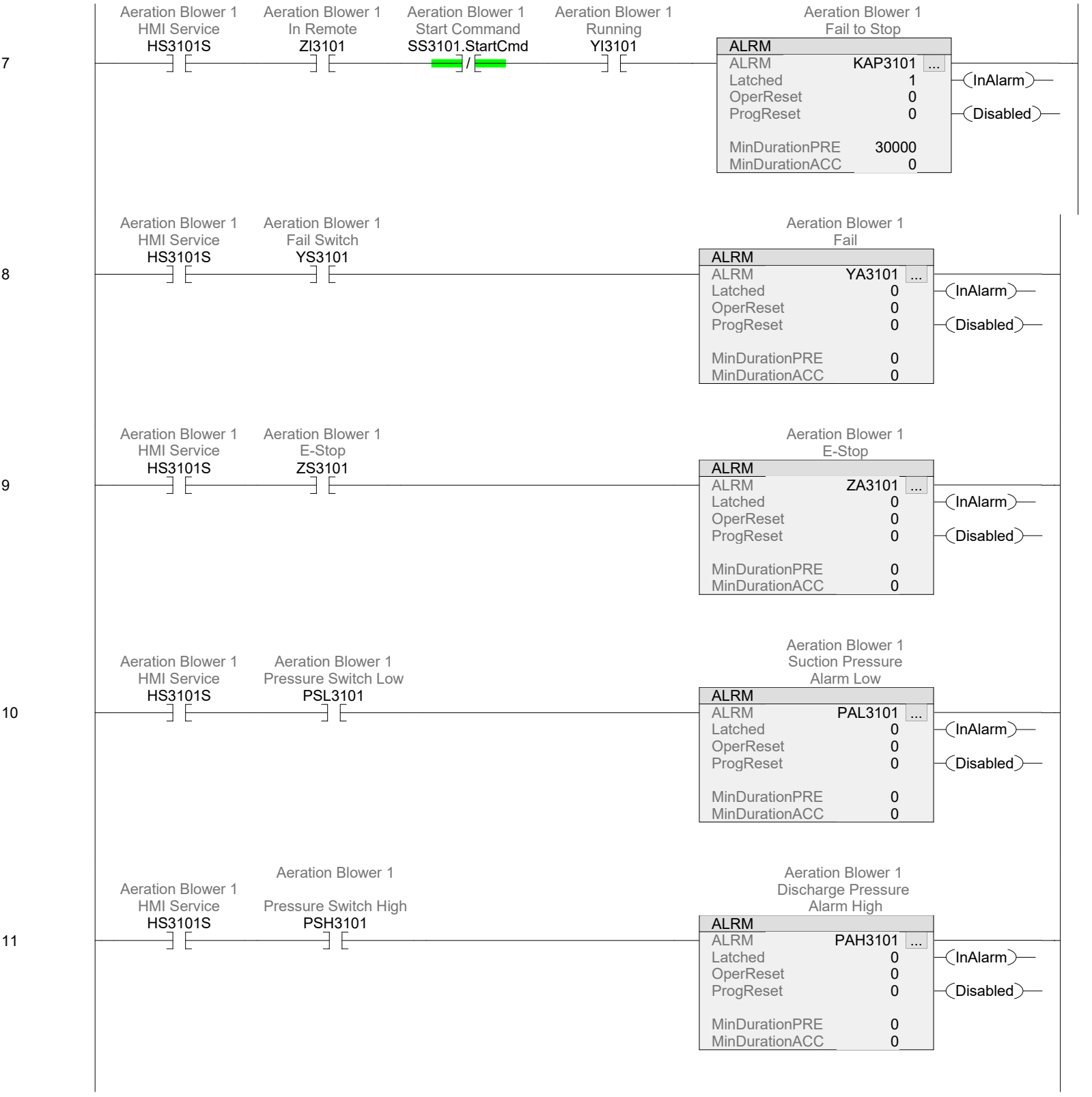
Aeration Blower 1
Fail to Start

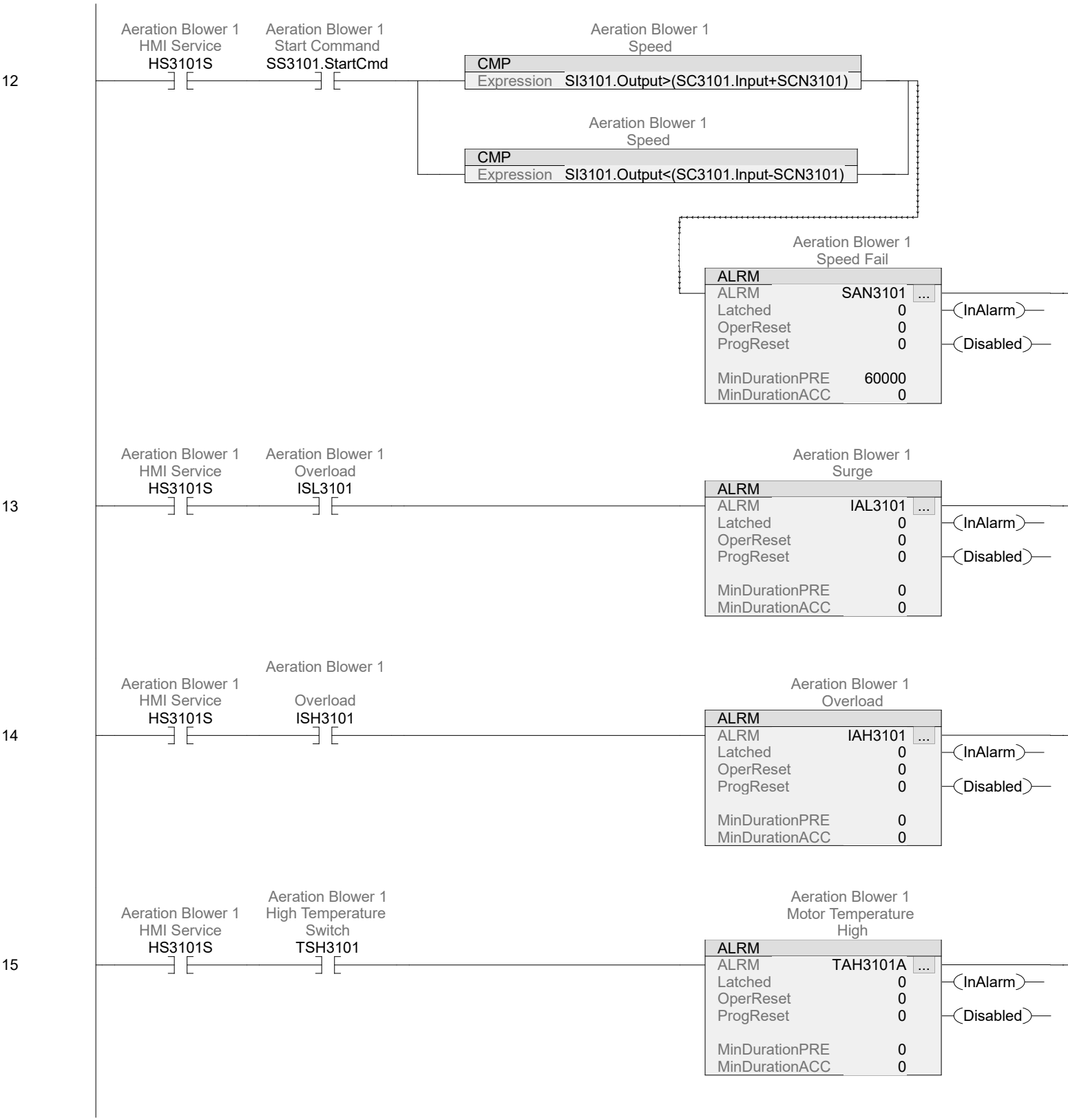
ALRM	
ALRM	KAS3101 ...
Latched	1
OperReset	0
ProgReset	0
MinDurationPRE	5000
MinDurationACC	0

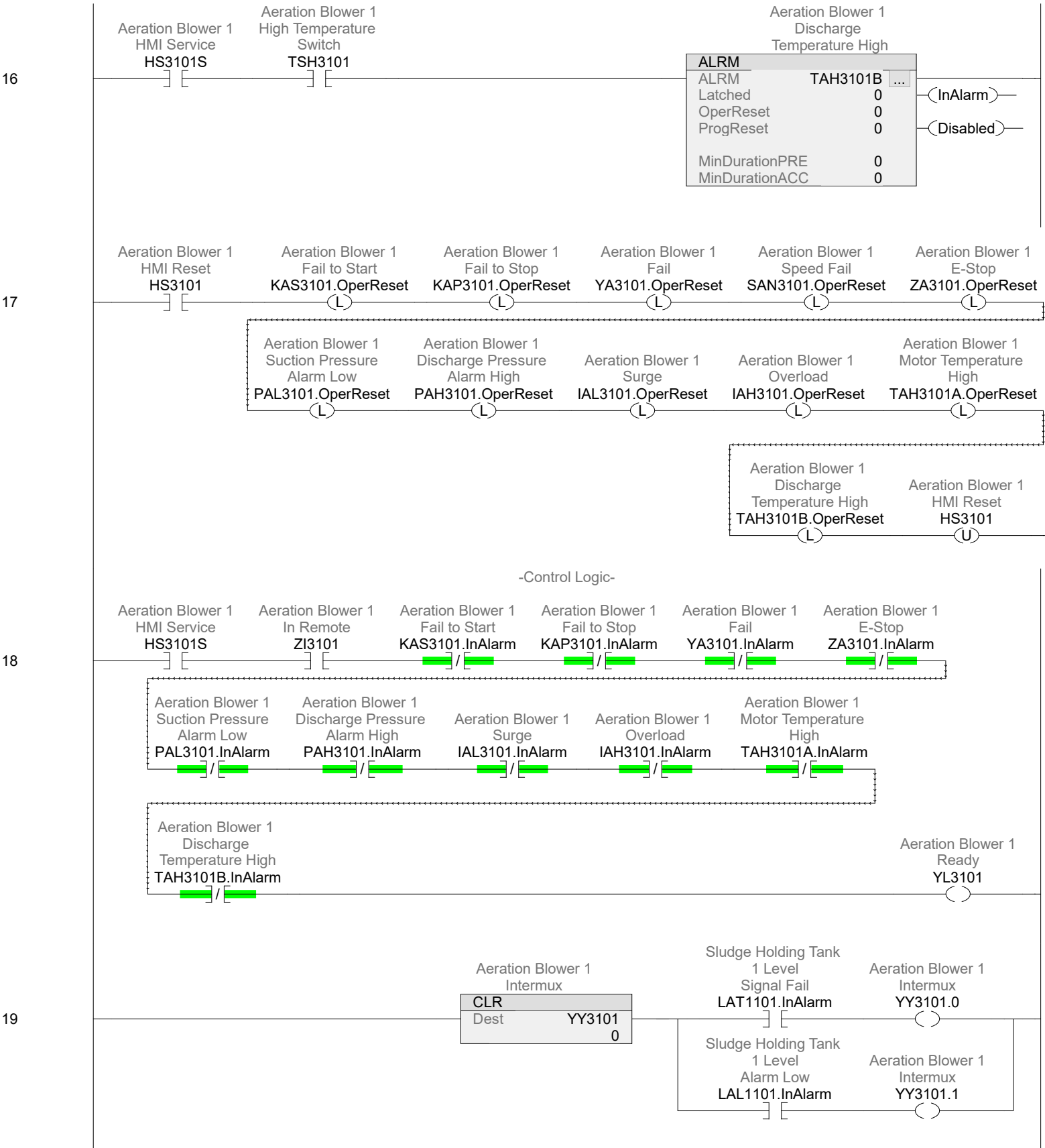
(InAlarm)

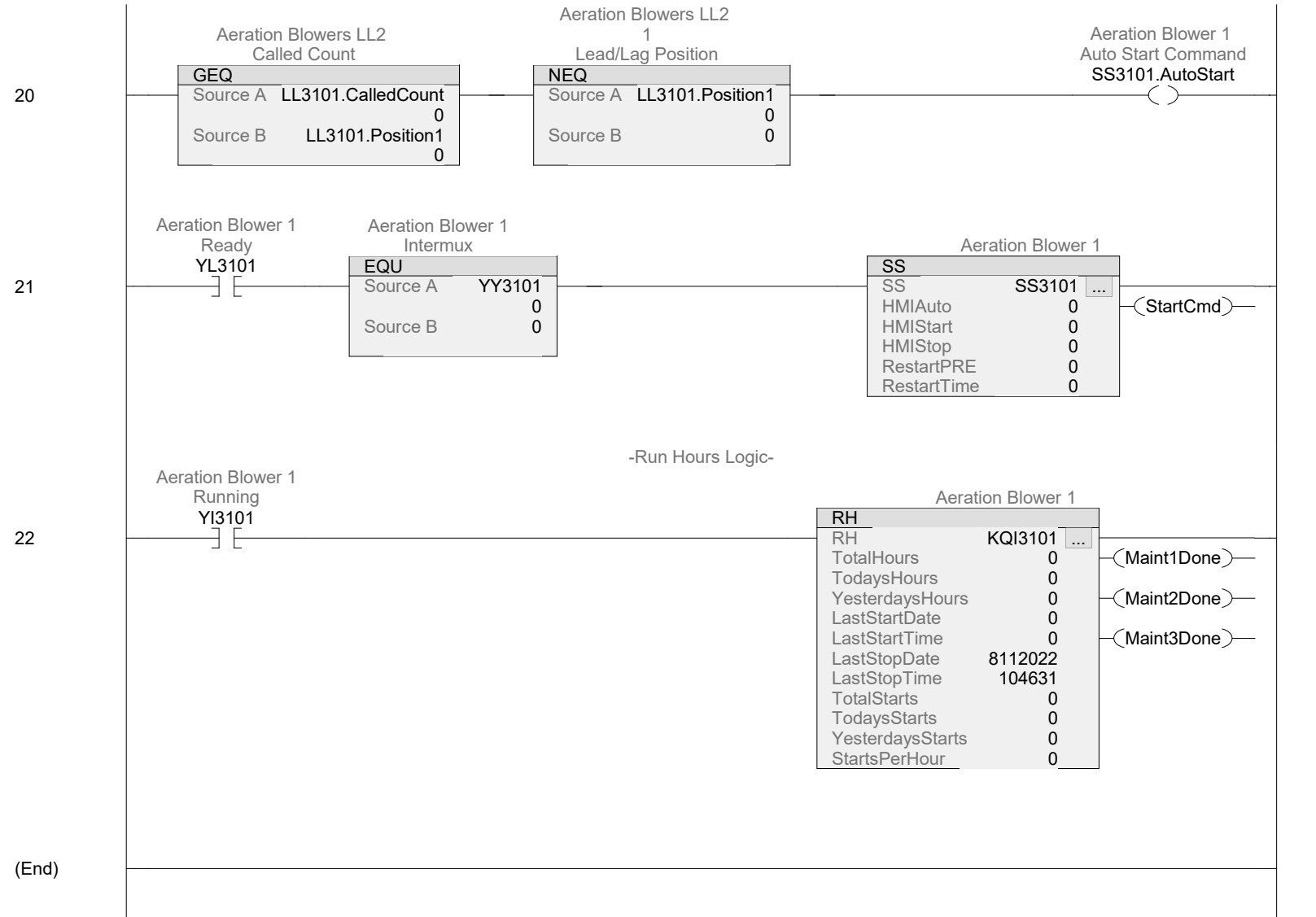
(Disabled)











Name	Value	Data Type	Scope
Dummy	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>Dummy - MainProgram/L3101_AerationBlower1_VFD - *3(OTE)</i>			
<i>Dummy - MainProgram/L3201_AerationBlower2_VFD - *3(OTE)</i>			
HS3101	0	BOOL	PLC_SH
Aeration Blower 1 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS3101 - MainProgram/L3101_AerationBlower1_VFD - *17(OTU), 17(XIC)</i>			
HS3101S	0	BOOL	PLC_SH
Aeration Blower 1 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS3101S - MainProgram/L3101_AerationBlower1_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 18(XIC), 6(XIC), 7(XIC), 8(XIC), 9(XIC)</i>			
IAH3101		ALRM	PLC_SH
Aeration Blower 1 Overload			
Constant	No		
External Access:	Read/Write		
<i>IAH3101 - MainProgram/L3101_AerationBlower1_VFD - *14(ALRM)</i>			
IAH3101.EnableIn	0	BOOL	
Aeration Blower 1 Overload Enable Input - System Defined Parameter			
IAH3101.EnableOut	0	BOOL	
Aeration Blower 1 Overload Enable Output - System Defined Parameter			
IAH3101.Latched	0	BOOL	
Aeration Blower 1 Overload			
IAH3101.OperReset	0	BOOL	
Aeration Blower 1 Overload			
<i>IAH3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>			
IAH3101.ProgReset	0	BOOL	
Aeration Blower 1 Overload			
IAH3101.OperDisable	0	BOOL	
Aeration Blower 1 Overload			
IAH3101.OperEnable	0	BOOL	
Aeration Blower 1 Overload			
IAH3101.AlarmCountReset	0	BOOL	
Aeration Blower 1 Overload Set to 1 to reset alarm count			
IAH3101.InAlarm	0	BOOL	
Aeration Blower 1 Overload			
<i>IAH3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>			
IAH3101.Disabled	0	BOOL	
Aeration Blower 1 Overload			
IAH3101.MinDurationPRE	0	DINT	
Aeration Blower 1 Overload			
IAH3101.MinDurationACC	0	DINT	
Aeration Blower 1 Overload			
IAH3101.AlarmCount	0	DINT	
Aeration Blower 1 Overload			
IAH3101.InAlarmDate	0	DINT	
Aeration Blower 1 Overload			
IAH3101.InAlarmTime	0	DINT	
Aeration Blower 1 Overload			
IAH3101.RetToNormalDate	0	DINT	
Aeration Blower 1 Overload			
IAH3101.RetToNormalTime	0	DINT	
Aeration Blower 1 Overload			
IAH3101.AlarmCountResetDate	0	DINT	
Aeration Blower 1 Overload			
IAH3101.AlarmCountResetTime	0	DINT	
Aeration Blower 1 Overload			

IAH3101 (Continued)			
Aeration Blower 1 Overload			
IAL3101			ALRM PLC_SH
Aeration Blower 1 Surge			
Constant	No		
External Access:	Read/Write		
<i>IAL3101 - MainProgram/L3101_AerationBlower1_VFD - *13(ALRM)</i>			
IAL3101.EnableIn	0		BOOL
Aeration Blower 1 Surge Enable Input - System Defined Parameter			
IAL3101.EnableOut	0		BOOL
Aeration Blower 1 Surge Enable Output - System Defined Parameter			
IAL3101.Latched	0		BOOL
Aeration Blower 1 Surge			
IAL3101.OperReset	0		BOOL
Aeration Blower 1 Surge			
<i>IAL3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>			
IAL3101.ProgReset	0		BOOL
Aeration Blower 1 Surge			
IAL3101.OperDisable	0		BOOL
Aeration Blower 1 Surge			
IAL3101.OperEnable	0		BOOL
Aeration Blower 1 Surge			
IAL3101.AlarmCountReset	0		BOOL
Aeration Blower 1 Surge Set to 1 to reset alarm count			
IAL3101.InAlarm	0		BOOL
Aeration Blower 1 Surge			
<i>IAL3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>			
IAL3101.Disabled	0		BOOL
Aeration Blower 1 Surge			
IAL3101.MinDurationPRE	0		DINT
Aeration Blower 1 Surge			
IAL3101.MinDurationACC	0		DINT
Aeration Blower 1 Surge			
IAL3101.AlarmCount	0		DINT
Aeration Blower 1 Surge			
IAL3101.InAlarmDate	0		DINT
Aeration Blower 1 Surge			
IAL3101.InAlarmTime	0		DINT
Aeration Blower 1 Surge			
IAL3101.RetToNormalDate	0		DINT
Aeration Blower 1 Surge			
IAL3101.RetToNormalTime	0		DINT
Aeration Blower 1 Surge			
IAL3101.AlarmCountResetDate	0		DINT
Aeration Blower 1 Surge			
IAL3101.AlarmCountResetTime	0		DINT
Aeration Blower 1 Surge			
ISH3101	0		BOOL PLC_SH
Aeration Blower 1			
Overstand	No		
External Access:	Read/Write		
<i>ISH3101 - MainProgram/L3101_AerationBlower1_VFD - 14(XIC)</i>			
ISL3101	0		BOOL PLC_SH
Aeration Blower 1 Overload			
Constant	No		
External Access:	Read/Write		
<i>ISL3101 - MainProgram/L3101_AerationBlower1_VFD - 13(XIC)</i>			
KAP3101			ALRM PLC_SH
Aeration Blower 1 Fail to Stop			
Constant	No		

KAP3101 (Continued)

External Access:	Read/Write	
<i>KAP3101 - MainProgram/L3101_AerationBlower1_VFD - *7(ALRM)</i>		
KAP3101.EnableIn	0	BOOL
Aeration Blower 1 Fail to Stop Enable Input - System Defined Parameter		
KAP3101.EnableOut	0	BOOL
Aeration Blower 1 Fail to Stop Enable Output - System Defined Parameter		
KAP3101.Latched	1	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.OperReset	0	BOOL
Aeration Blower 1 Fail to Stop		
<i>KAP3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
KAP3101.ProgReset	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.OperDisable	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.OperEnable	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Fail to Stop Set to 1 to reset alarm count		
KAP3101.InAlarm	0	BOOL
Aeration Blower 1 Fail to Stop		
<i>KAP3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
KAP3101.Disabled	0	BOOL
Aeration Blower 1 Fail to Stop		
KAP3101.MinDurationPRE	30000	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.MinDurationACC	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCount	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.InAlarmDate	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.InAlarmTime	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.RefToNormalDate	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.RefToNormalTime	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Fail to Stop		
KAP3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Fail to Stop		

KAS3101 ALRM PLC_SH

Aeration Blower 1 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS3101 - MainProgram/L3101_AerationBlower1_VFD - *6(ALRM)</i>		
KAS3101.EnableIn	0	BOOL
Aeration Blower 1 Fail to Start Enable Input - System Defined Parameter		
KAS3101.EnableOut	0	BOOL
Aeration Blower 1 Fail to Start Enable Output - System Defined Parameter		
KAS3101.Latched	1	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.OperReset	0	BOOL
Aeration Blower 1 Fail to Start		
<i>KAS3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
KAS3101.ProgReset	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.OperDisable	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.OperEnable	0	BOOL
Aeration Blower 1 Fail to Start		

KAS3101 (Continued)		
KAS3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Fail to Start Set to 1 to reset alarm count		
KAS3101.InAlarm	0	BOOL
Aeration Blower 1 Fail to Start		
<i>KAS3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
KAS3101.Disabled	0	BOOL
Aeration Blower 1 Fail to Start		
KAS3101.MinDurationPRE	5000	DINT
Aeration Blower 1 Fail to Start		
KAS3101.MinDurationACC	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCount	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.InAlarmDate	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.InAlarmTime	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.RefToNormalDate	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.RefToNormalTime	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Fail to Start		
KAS3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Fail to Start		
KQI3101		RH
Aeration Blower 1		
Constant	No	
External Access:	Read/Write	
<i>KQI3101 - MainProgram/L3101_AerationBlower1_VFD - *22(RH)</i>		
KQI3101.EnableIn	0	BOOL
Aeration Blower 1 Enable Input - System Defined Parameter		
KQI3101.EnableOut	0	BOOL
Aeration Blower 1 Enable Output - System Defined Parameter		
KQI3101.TotalHours	0	DINT
Aeration Blower 1 Total ETM		
KQI3101.TodaysHours	0	DINT
Aeration Blower 1 Today's ETM		
KQI3101.YesterdaysHours	0	DINT
Aeration Blower 1 Yesterday's ETM		
KQI3101.LastStartDate	0	DINT
Aeration Blower 1 Last Start Date		
KQI3101.LastStartTime	0	DINT
Aeration Blower 1 Last Start Time		
KQI3101.LastStopDate	8112022	DINT
Aeration Blower 1 Last Stop Date		
KQI3101.LastStopTime	104631	DINT
Aeration Blower 1 Last Stop Time		
KQI3101.TotalStarts	0	DINT
Aeration Blower 1 Total Starts		
KQI3101.TodaysStarts	0	DINT
Aeration Blower 1 Today's Starts		
KQI3101.YesterdaysStarts	0	DINT
Aeration Blower 1 Yesterday's Starts		
KQI3101.StartsPerHour	0	DINT
Aeration Blower 1 Calculated Number of Starts per Hour		
KQI3101.HourSP	0	DINT
Aeration Blower 1 Hour to Rollover (0 - 23)		
KQI3101.MinuteSP	0	DINT
Aeration Blower 1 Minute to Rollover (0 - 59)		
KQI3101.HMIRreset	0	BOOL
Aeration Blower 1		

PLC_SH

KQI3101 (Continued)		
KQI3101.Maint1Hours	0	DINT
Aeration Blower 1 Maintenance 1 Hours		
KQI3101.Maint2Hours	0	DINT
Aeration Blower 1 Maintenance 2 Hours		
KQI3101.Maint3Hours	0	DINT
Aeration Blower 1 Maintenance 3 Hours		
KQI3101.Maint1Done	0	BOOL
Aeration Blower 1 Maintenance 1 Due		
KQI3101.Maint2Done	0	BOOL
Aeration Blower 1 Maintenance 2 Due		
KQI3101.Maint3Done	0	BOOL
Aeration Blower 1 Maintenance 3 Due		
KQI3101.Maint1SP	50000	DINT
Aeration Blower 1 Maintenance 1 Hours SP		
KQI3101.Maint2SP	50000	DINT
Aeration Blower 1 Maintenance 2 Hours SP		
KQI3101.Maint3SP	50000	DINT
Aeration Blower 1 Maintenance 3 Hours SP		
LAL1101		ALRM
Sludge Holding Tank 1 Level Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>LAL1101 - MainProgram/L1101_SHT1_Level - *3(ALRM)</i>		
LAL1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Input - System Defined Parameter		
LAL1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Output - System Defined Parameter		
LAL1101.Latched	1	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAL1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Set to 1 to reset alarm count		
LAL1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.InAlarm - MainProgram/L1100_PressControl - 0(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>		
LAL1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RetToNormalTime	0	DINT

PLC_SH

LAL1101 (Continued)		
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAT1101		ALRM PLC_SH
Sludge Holding Tank 1 Level Signal Fail		
Constant	No	
External Access:	Read/Write	
<i>LAT1101 - MainProgram/L1101_SHT1_Level - *1(ALRM)</i>		
LAT1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Enable Input - System Defined Parameter		
LAT1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Enable Output - System Defined Parameter		
LAT1101.Latched	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
<i>LAT1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAT1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Set to 1 to reset alarm count		
LAT1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
<i>LAT1101.InAlarm - MainProgram/L1101_SHT1_Level - 2(XIO), 3(XIO)</i>		
<i>LAT1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>		
LAT1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.MinDurationPRE	5000	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.RefToNormalDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.RefToNormalTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LL3101		LL PLC_SH
Aeration Blowers LL2		
Constant	No	
External Access:	Read/Write	
LL3101.EnableIn	1	BOOL
Aeration Blowers LL2 Enable Input - System Defined Parameter		
LL3101.EnableOut	1	BOOL

LL3101 (Continued)

Aeration Blowers LL2 Enable Output - System Defined Parameter		
LL3101.AlternationMode	0	DINT
Aeration Blowers LL2 Alternation Mode		
LL3101.AlternationPRE	2400	DINT
Aeration Blowers LL2 Alternation Time Preset (0.01 HRS)		
LL3101.AlternationACC	0	DINT
Aeration Blowers LL2 Alternation Time Accumulated (0.01 HRS)		
LL3101.NextCall	0	DINT
Aeration Blowers LL2 (1)Increase Call (0)No Call (-1)Decrease Call		
LL3101.NextCallCountDown	0	DINT
Aeration Blowers LL2 Next Call Count Down (Milliseconds)		
LL3101.NextCalled	0	DINT
Aeration Blowers LL2 (Equipment Number)		
LL3101.CalledCount	0	DINT
Aeration Blowers LL2 Called Count		
<i>LL3101.CalledCount - MainProgram/L3101_AerationBlower1_VFD - 20(GEQ)</i>		
LL3101.ReadyCount	0	DINT
Aeration Blowers LL2 Ready Count		
LL3101.OnCountTotal	0	DINT
Aeration Blowers LL2 Total On Count		
LL3101.OnCountAuto	0	DINT
Aeration Blowers LL2 Auto On Count		
LL3101.OnCountMax	1	DINT
Aeration Blowers LL2 Maximum On Count		
LL3101.Ready1	0	BOOL
Aeration Blowers LL2 1 Ready		
LL3101.Ready2	0	BOOL
Aeration Blowers LL2 2 Ready		
LL3101.Ready3	0	BOOL
Aeration Blowers LL2 3 Ready		
LL3101.Ready4	0	BOOL
Aeration Blowers LL2 4 Ready		
LL3101.Ready5	0	BOOL
Aeration Blowers LL2 5 Ready		
LL3101.Ready6	0	BOOL
Aeration Blowers LL2 6 Ready		
LL3101.RunHours1	0	DINT
Aeration Blowers LL2 1 Total ETM		
LL3101.RunHours2	0	DINT
Aeration Blowers LL2 2 Total ETM		
LL3101.RunHours3	0	DINT
Aeration Blowers LL2 3 Total ETM		
LL3101.RunHours4	0	DINT
Aeration Blowers LL2 4 Total ETM		
LL3101.RunHours5	0	DINT
Aeration Blowers LL2 5 Total ETM		
LL3101.RunHours6	0	DINT
Aeration Blowers LL2 6 Total ETM		
LL3101.Position1SP	0	DINT
Aeration Blowers LL2 1 Lead/Lag Position SP		
LL3101.Position2SP	0	DINT
Aeration Blowers LL2 2 Lead/Lag Position SP		
LL3101.Position3SP	0	DINT
Aeration Blowers LL2 3 Lead/Lag Position SP		
LL3101.Position4SP	0	DINT
Aeration Blowers LL2 4 Lead/Lag Position SP		
LL3101.Position5SP	0	DINT
Aeration Blowers LL2 5 Lead/Lag Position SP		
LL3101.Position6SP	0	DINT
Aeration Blowers LL2 6 Lead/Lag Position SP		
LL3101.Position1	0	DINT
Aeration Blowers LL2 1 Lead/Lag Position		
<i>LL3101.Position1 - MainProgram/L3101_AerationBlower1_VFD - 20(GEQ), 20(NEQ)</i>		

LL3101 (Continued)		
LL3101.Position2	0	DINT
Aeration Blowers LL2 2 Lead/Lag Position		
LL3101.Position3	0	DINT
Aeration Blowers LL2 3 Lead/Lag Position		
LL3101.Position4	0	DINT
Aeration Blowers LL2 4 Lead/Lag Position		
LL3101.Position5	0	DINT
Aeration Blowers LL2 5 Lead/Lag Position		
LL3101.Position6	0	DINT
Aeration Blowers LL2 6 Lead/Lag Position		
LL3101.Delay0_1	5000	DINT
Aeration Blowers LL2 Call On 0 to 1 Delay (Milliseconds)		
LL3101.Delay1_2	10000	DINT
Aeration Blowers LL2 Call On 1 to 2 Delay (Milliseconds)		
LL3101.Delay2_3	15000	DINT
Aeration Blowers LL2 Call On 2 to 3 Delay (Milliseconds)		
LL3101.Delay3_4	20000	DINT
Aeration Blowers LL2 Call On 3 to 4 Delay (Milliseconds)		
LL3101.Delay4_5	25000	DINT
Aeration Blowers LL2 Call On 4 to 5 Delay (Milliseconds)		
LL3101.Delay5_6	30000	DINT
Aeration Blowers LL2 Call On 5 to 6 Delay (Milliseconds)		
LL3101.Delay6_5	30000	DINT
Aeration Blowers LL2 Call Off 6 to 5 Delay (Milliseconds)		
LL3101.Delay5_4	25000	DINT
Aeration Blowers LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL3101.Delay4_3	20000	DINT
Aeration Blowers LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL3101.Delay3_2	15000	DINT
Aeration Blowers LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL3101.Delay2_1	10000	DINT
Aeration Blowers LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL3101.Delay1_0	5000	DINT
Aeration Blowers LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL3101.MaxOn	0	BOOL
Aeration Blowers LL2 Maximum Number of Devices are Running		
LL3101.On1	0	BOOL
Aeration Blowers LL2		
LL3101.On2	0	BOOL
Aeration Blowers LL2		
LL3101.On3	0	BOOL
Aeration Blowers LL2		
LL3101.On4	0	BOOL
Aeration Blowers LL2		
LL3101.On5	0	BOOL
Aeration Blowers LL2		
LL3101.On6	0	BOOL
Aeration Blowers LL2		
LL3101.CountUpOS	0	BOOL
Aeration Blowers LL2		
LL3101.CountDownOS	0	BOOL
Aeration Blowers LL2		
PAH3101		ALRM
Aeration Blower 1 Discharge Pressure Alarm High		
Constant	No	
External Access:	Read/Write	
<i>PAH3101 - MainProgram/L3101_AerationBlower1_VFD - *11(ALRM)</i>		
PAH3101.EnableIn	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High Enable Input - System Defined Parameter		
PAH3101.EnableOut	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High Enable Output - System Defined Parameter		
PAH3101.Latched	0	BOOL

PLC_SH

PAH3101 (Continued)

Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.OperReset	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
<i>PAH3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
PAH3101.ProgReset	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.OperDisable	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.OperEnable	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCountReset	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH3101.InAlarm	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
<i>PAH3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
PAH3101.Disabled	0	BOOL
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.MinDurationPRE	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.MinDurationACC	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCount	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.InAlarmDate	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.InAlarmTime	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.RetToNormalDate	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.RetToNormalTime	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCountResetDate	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		
PAH3101.AlarmCountResetTime	0	DINT
Aeration Blower 1 Discharge Pressure Alarm High		

PAL3101		ALRM	PLC_SH
Aeration Blower 1 Suction Pressure Alarm Low			
Constant	No		
External Access:	Read/Write		
<i>PAL3101 - MainProgram/L3101_AerationBlower1_VFD - *10(ALRM)</i>			
PAL3101.EnableIn	0	BOOL	
Aeration Blower 1 Suction Pressure Alarm Low Enable Input - System Defined Parameter			
PAL3101.EnableOut	0	BOOL	
Aeration Blower 1 Suction Pressure Alarm Low Enable Output - System Defined Parameter			
PAL3101.Latched	0	BOOL	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.OperReset	0	BOOL	
Aeration Blower 1 Suction Pressure Alarm Low			
<i>PAL3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>			
PAL3101.ProgReset	0	BOOL	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.OperDisable	0	BOOL	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.OperEnable	0	BOOL	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.AlarmCountReset	0	BOOL	
Aeration Blower 1 Suction Pressure Alarm Low Set to 1 to reset alarm count			
PAL3101.InAlarm	0	BOOL	
Aeration Blower 1 Suction Pressure Alarm Low			
<i>PAL3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>			
PAL3101.Disabled	0	BOOL	
Aeration Blower 1 Suction Pressure Alarm Low			

PAL3101 (Continued)			
PAL3101.MinDurationPRE	0	DINT	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.MinDurationACC	0	DINT	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.AlarmCount	0	DINT	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.InAlarmDate	0	DINT	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.InAlarmTime	0	DINT	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.RetToNormalDate	0	DINT	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.RetToNormalTime	0	DINT	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.AlarmCountResetDate	0	DINT	
Aeration Blower 1 Suction Pressure Alarm Low			
PAL3101.AlarmCountResetTime	0	DINT	
Aeration Blower 1 Suction Pressure Alarm Low			
PSH3101	0	BOOL	PLC_SH
Aeration Blower 1			
Constant	No		
External Access: Read/Write			
<i>PSH3101 - MainProgram/L3101_AerationBlower1_VFD - 11(XIC)</i>			
PSL3101	0	BOOL	PLC_SH
Aeration Blower 1 Pressure Switch Low			
Constant	No		
External Access: Read/Write			
<i>PSL3101 - MainProgram/L3101_AerationBlower1_VFD - 10(XIC)</i>			
SAN3101		ALRM	PLC_SH
Aeration Blower 1 Speed Fail			
Constant	No		
External Access: Read/Write			
<i>SAN3101 - MainProgram/L3101_AerationBlower1_VFD - *12(ALRM)</i>			
SAN3101.EnableIn	0	BOOL	
Aeration Blower 1 Speed Fail Enable Input - System Defined Parameter			
SAN3101.EnableOut	0	BOOL	
Aeration Blower 1 Speed Fail Enable Output - System Defined Parameter			
SAN3101.Latched	0	BOOL	
Aeration Blower 1 Speed Fail			
SAN3101.OperReset	0	BOOL	
Aeration Blower 1 Speed Fail			
<i>SAN3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>			
SAN3101.ProgReset	0	BOOL	
Aeration Blower 1 Speed Fail			
SAN3101.OperDisable	0	BOOL	
Aeration Blower 1 Speed Fail			
SAN3101.OperEnable	0	BOOL	
Aeration Blower 1 Speed Fail			
SAN3101.AlarmCountReset	0	BOOL	
Aeration Blower 1 Speed Fail Set to 1 to reset alarm count			
SAN3101.InAlarm	0	BOOL	
Aeration Blower 1 Speed Fail			
SAN3101.Disabled	0	BOOL	
Aeration Blower 1 Speed Fail			
SAN3101.MinDurationPRE	60000	DINT	
Aeration Blower 1 Speed Fail			
SAN3101.MinDurationACC	0	DINT	
Aeration Blower 1 Speed Fail			
SAN3101.AlarmCount	0	DINT	
Aeration Blower 1 Speed Fail			

SAN3101 (Continued)			
SAN3101.InAlarmDate	0	DINT	
Aeration Blower 1 Speed Fail			
SAN3101.InAlarmTime	0	DINT	
Aeration Blower 1 Speed Fail			
SAN3101.RefToNormalDate	0	DINT	
Aeration Blower 1 Speed Fail			
SAN3101.RefToNormalTime	0	DINT	
Aeration Blower 1 Speed Fail			
SAN3101.AlarmCountResetDate	0	DINT	
Aeration Blower 1 Speed Fail			
SAN3101.AlarmCountResetTime	0	DINT	
Aeration Blower 1 Speed Fail			
SC3101		SCP	PLC_SH
Aeration Blower 1 Speed Control			
Constant	No		
External Access:	Read/Write		
<i>SC3101 - MainProgram/L3101_AerationBlower1_VFD - *5(SCP)</i>			
SC3101.EnableIn	1	BOOL	
Aeration Blower 1 Speed Control Enable Input - System Defined Parameter			
SC3101.EnableOut	1	BOOL	
Aeration Blower 1 Speed Control Enable Output - System Defined Parameter			
SC3101.Input	41.99942	REAL	
Aeration Blower 1 Speed Control			
<i>SC3101.Input - MainProgram/L3101_AerationBlower1_VFD - 12(CMP)</i>			
SC3101.InputMin	0.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.InputMax	60.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.OutputMin	4000.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.OutputMax	20000.0	REAL	
Aeration Blower 1 Speed Control			
SC3101.Output	15199.846	REAL	
Aeration Blower 1 Speed Control			
SC3101.ClampMin	1	BOOL	
Aeration Blower 1 Speed Control			
SC3101.ClampMax	1	BOOL	
Aeration Blower 1 Speed Control			
SCN3101	50.0	REAL	PLC_SH
Aeration Blower 1 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN3101 - MainProgram/L3101_AerationBlower1_VFD - 12(CMP)</i>			
SI3101		SCP	PLC_SH
Aeration Blower 1 Speed			
Constant	No		
External Access:	Read/Write		
<i>SI3101 - MainProgram/L3101_AerationBlower1_VFD - *4(SCP)</i>			
SI3101.EnableIn	1	BOOL	
Aeration Blower 1 Speed Enable Input - System Defined Parameter			
SI3101.EnableOut	1	BOOL	
Aeration Blower 1 Speed Enable Output - System Defined Parameter			
SI3101.Input	0.0	REAL	
Aeration Blower 1 Speed			
SI3101.InputMin	4000.0	REAL	
Aeration Blower 1 Speed			
SI3101.InputMax	20000.0	REAL	
Aeration Blower 1 Speed			
SI3101.OutputMin	0.0	REAL	
Aeration Blower 1 Speed			

SI3101 (Continued)		
SI3101.OutputMax	60.0	REAL
Aeration Blower 1 Speed		
SI3101.Output	0.0	REAL
Aeration Blower 1 Speed		
<i>SI3101.Output - MainProgram/L3101_AerationBlower1_VFD - 12(CMP)</i>		
SI3101.ClampMin	1	BOOL
Aeration Blower 1 Speed		
SI3101.ClampMax	1	BOOL
Aeration Blower 1 Speed		
SS3101		SS
Aeration Blower 1		
Constant	No	
External Access:	Read/Write	
<i>SS3101 - MainProgram/L3101_AerationBlower1_VFD - *21(SS)</i>		
SS3101.EnableIn	0	BOOL
Aeration Blower 1 Enable Input - System Defined Parameter		
SS3101.EnableOut	0	BOOL
Aeration Blower 1 Enable Output - System Defined Parameter		
SS3101.HMIAuto	0	BOOL
Aeration Blower 1 HMI Auto		
SS3101.AutoStart	0	BOOL
Aeration Blower 1 Auto Start Command		
<i>SS3101.AutoStart - MainProgram/L3101_AerationBlower1_VFD - *20(OTE)</i>		
SS3101.HMIStart	0	BOOL
Aeration Blower 1 HMI Manual Start		
SS3101.HMIStop	0	BOOL
Aeration Blower 1 HMI Manual Stop		
SS3101.StartCmd	0	BOOL
Aeration Blower 1 Start Command		
<i>SS3101.StartCmd - MainProgram/L3101_AerationBlower1_VFD - 12(XIC), 3(XIC), 6(XIC), 7(XIO)</i>		
SS3101.RestartActive	0	BOOL
Aeration Blower 1 Restart Delay Active		
SS3101.RestartPRE	0	DINT
Aeration Blower 1 Restart Delay Preset (Milliseconds)		
SS3101.RestartTime	0	DINT
Aeration Blower 1 Actual Restart Time (Times Down)		
TAH3101A		ALRM
Aeration Blower 1 Motor Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH3101A - MainProgram/L3101_AerationBlower1_VFD - *15(ALRM)</i>		
TAH3101A.EnableIn	0	BOOL
Aeration Blower 1 Motor Temperature High Enable Input - System Defined Parameter		
TAH3101A.EnableOut	0	BOOL
Aeration Blower 1 Motor Temperature High Enable Output - System Defined Parameter		
TAH3101A.Latched	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.OperReset	0	BOOL
Aeration Blower 1 Motor Temperature High		
<i>TAH3101A.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
TAH3101A.ProgReset	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.OperDisable	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.OperEnable	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCountReset	0	BOOL
Aeration Blower 1 Motor Temperature High Set to 1 to reset alarm count		
TAH3101A.InAlarm	0	BOOL
Aeration Blower 1 Motor Temperature High		
<i>TAH3101A.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		

TAH3101A (Continued)		
TAH3101A.Disabled	0	BOOL
Aeration Blower 1 Motor Temperature High		
TAH3101A.MinDurationPRE	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.MinDurationACC	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCount	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.InAlarmDate	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.InAlarmTime	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.RetToNormalDate	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.RetToNormalTime	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCountResetDate	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101A.AlarmCountResetTime	0	DINT
Aeration Blower 1 Motor Temperature High		
TAH3101B		ALRM PLC_SH
Aeration Blower 1 Discharge Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH3101B - MainProgram/L3101_AerationBlower1_VFD - *16(ALRM)</i>		
TAH3101B.EnableIn	0	BOOL
Aeration Blower 1 Discharge Temperature High Enable Input - System Defined Parameter		
TAH3101B.EnableOut	0	BOOL
Aeration Blower 1 Discharge Temperature High Enable Output - System Defined Parameter		
TAH3101B.Latched	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.OperReset	0	BOOL
Aeration Blower 1 Discharge Temperature High		
<i>TAH3101B.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>		
TAH3101B.ProgReset	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.OperDisable	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.OperEnable	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCountReset	0	BOOL
Aeration Blower 1 Discharge Temperature High Set to 1 to reset alarm count		
TAH3101B.InAlarm	0	BOOL
Aeration Blower 1 Discharge Temperature High		
<i>TAH3101B.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>		
TAH3101B.Disabled	0	BOOL
Aeration Blower 1 Discharge Temperature High		
TAH3101B.MinDurationPRE	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.MinDurationACC	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCount	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.InAlarmDate	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.InAlarmTime	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.RetToNormalDate	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.RetToNormalTime	0	DINT
Aeration Blower 1 Discharge Temperature High		
TAH3101B.AlarmCountResetDate	0	DINT

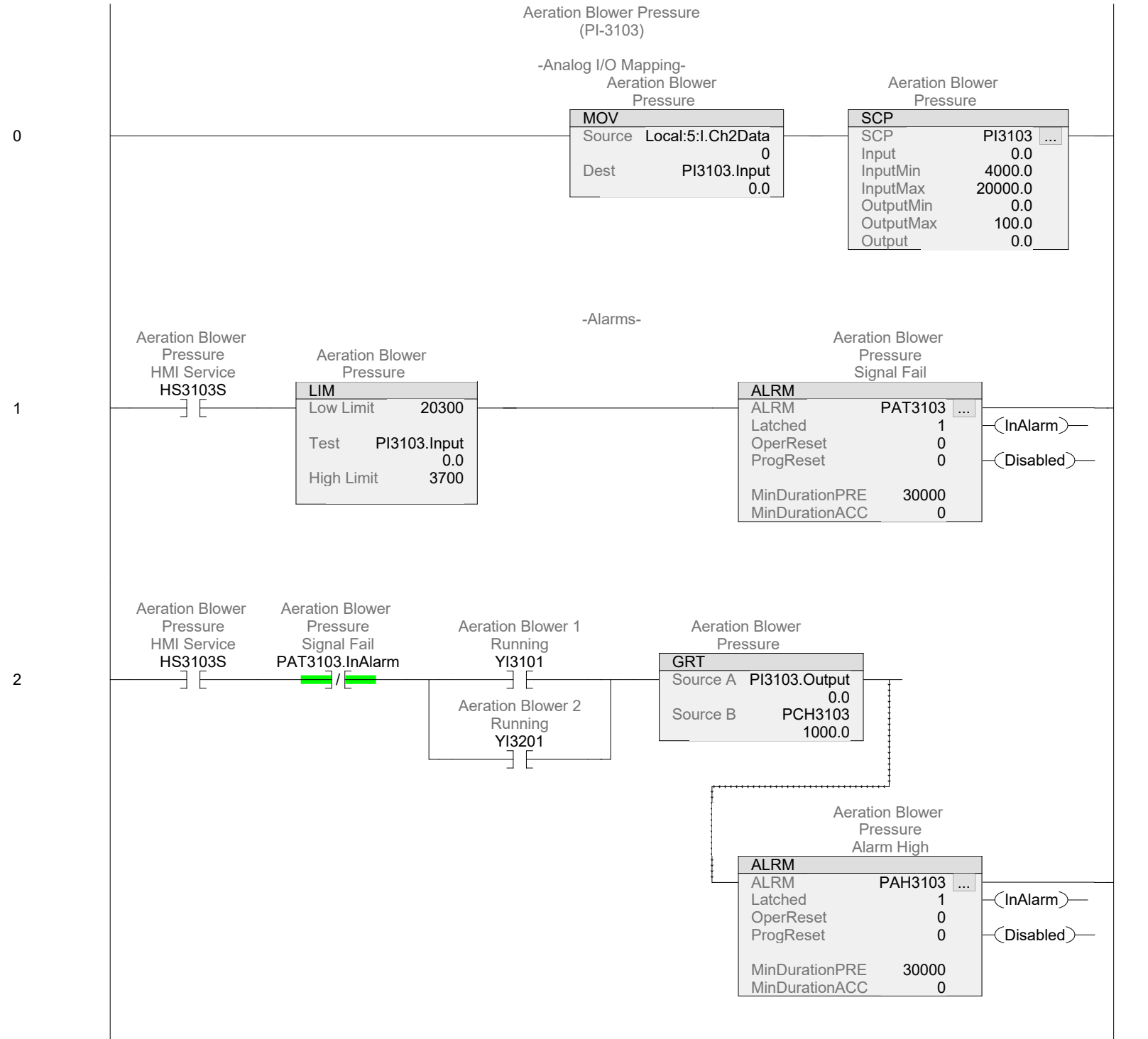
TAH3101B (Continued)			
Aeration Blower 1 Discharge Temperature High			
TAH3101B.AlarmCountResetTime	0	DINT	
Aeration Blower 1 Discharge Temperature High			
TSH3101	0	BOOL	PLC_SH
Aeration Blower 1 High Temperature Switch			
Constant	No		
External Access:	Read/Write		
<i>TSH3101 - MainProgram/L3101_AerationBlower1_VFD - 15(XIC), 16(XIC)</i>			
YA3101		ALRM	PLC_SH
Aeration Blower 1 Fail			
Constant	No		
External Access:	Read/Write		
<i>YA3101 - MainProgram/L3101_AerationBlower1_VFD - *8(ALRM)</i>			
YA3101.EnableIn	0	BOOL	
Aeration Blower 1 Fail Enable Input - System Defined Parameter			
YA3101.EnableOut	0	BOOL	
Aeration Blower 1 Fail Enable Output - System Defined Parameter			
YA3101.Latched	0	BOOL	
Aeration Blower 1 Fail			
YA3101.OperReset	0	BOOL	
Aeration Blower 1 Fail			
<i>YA3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>			
YA3101.ProgReset	0	BOOL	
Aeration Blower 1 Fail			
YA3101.OperDisable	0	BOOL	
Aeration Blower 1 Fail			
YA3101.OperEnable	0	BOOL	
Aeration Blower 1 Fail			
YA3101.AlarmCountReset	0	BOOL	
Aeration Blower 1 Fail Set to 1 to reset alarm count			
YA3101.InAlarm	0	BOOL	
Aeration Blower 1 Fail			
<i>YA3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>			
YA3101.Disabled	0	BOOL	
Aeration Blower 1 Fail			
YA3101.MinDurationPRE	0	DINT	
Aeration Blower 1 Fail			
YA3101.MinDurationACC	0	DINT	
Aeration Blower 1 Fail			
YA3101.AlarmCount	0	DINT	
Aeration Blower 1 Fail			
YA3101.InAlarmDate	0	DINT	
Aeration Blower 1 Fail			
YA3101.InAlarmTime	0	DINT	
Aeration Blower 1 Fail			
YA3101.RefToNormalDate	0	DINT	
Aeration Blower 1 Fail			
YA3101.RefToNormalTime	0	DINT	
Aeration Blower 1 Fail			
YA3101.AlarmCountResetDate	0	DINT	
Aeration Blower 1 Fail			
YA3101.AlarmCountResetTime	0	DINT	
Aeration Blower 1 Fail			
YI3101	0	BOOL	PLC_SH
Aeration Blower 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI3101 - MainProgram/L3101_AerationBlower1_VFD - *1(OTE), 22(XIC), 6(XIO), 7(XIC)</i>			
<i>YI3101 - MainProgram/L3103_AerBlower_Pressure - 2(XIC), 3(XIC)</i>			

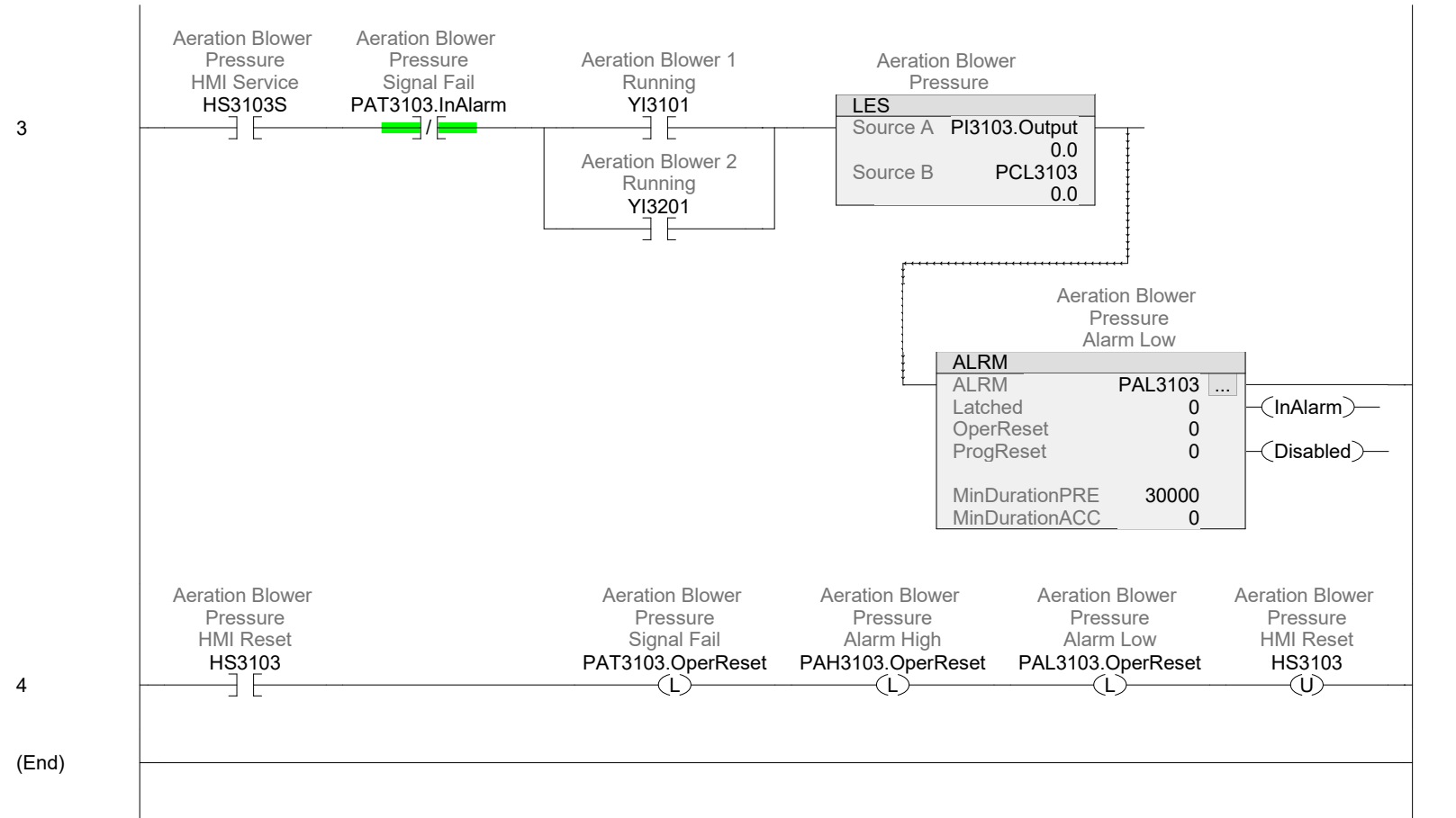
YL3101	0	BOOL	PLC_SH
Aeration Blower 1 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL3101 - MainProgram/L3101_AerationBlower1_VFD - *18(OTE), 21(XIC)</i>			
YS3101	0	BOOL	PLC_SH
Aeration Blower 1 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS3101 - MainProgram/L3101_AerationBlower1_VFD - *2(OTE), 8(XIC)</i>			
YY3101	0	DINT	PLC_SH
Aeration Blower 1 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY3101 - MainProgram/L3101_AerationBlower1_VFD - *19(CLR), 21(EQU)</i>			
YY3101.0	0	BOOL	
Aeration Blower 1 Intermux			
<i>YY3101.0 - MainProgram/L3101_AerationBlower1_VFD - *19(OTE)</i>			
YY3101.1	0	BOOL	
Aeration Blower 1 Intermux			
<i>YY3101.1 - MainProgram/L3101_AerationBlower1_VFD - *19(OTE)</i>			
ZA3101		ALRM	PLC_SH
Aeration Blower 1 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZA3101 - MainProgram/L3101_AerationBlower1_VFD - *9(ALRM)</i>			
ZA3101.EnableIn	0	BOOL	
Aeration Blower 1 E-Stop Enable Input - System Defined Parameter			
ZA3101.EnableOut	0	BOOL	
Aeration Blower 1 E-Stop Enable Output - System Defined Parameter			
ZA3101.Latched	0	BOOL	
Aeration Blower 1 E-Stop			
ZA3101.OperReset	0	BOOL	
Aeration Blower 1 E-Stop			
<i>ZA3101.OperReset - MainProgram/L3101_AerationBlower1_VFD - *17(OTL)</i>			
ZA3101.ProgReset	0	BOOL	
Aeration Blower 1 E-Stop			
ZA3101.OperDisable	0	BOOL	
Aeration Blower 1 E-Stop			
ZA3101.OperEnable	0	BOOL	
Aeration Blower 1 E-Stop			
ZA3101.AlarmCountReset	0	BOOL	
Aeration Blower 1 E-Stop Set to 1 to reset alarm count			
ZA3101.InAlarm	0	BOOL	
Aeration Blower 1 E-Stop			
<i>ZA3101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 18(XIO)</i>			
ZA3101.Disabled	0	BOOL	
Aeration Blower 1 E-Stop			
ZA3101.MinDurationPRE	0	DINT	
Aeration Blower 1 E-Stop			
ZA3101.MinDurationACC	0	DINT	
Aeration Blower 1 E-Stop			
ZA3101.AlarmCount	0	DINT	
Aeration Blower 1 E-Stop			
ZA3101.InAlarmDate	0	DINT	
Aeration Blower 1 E-Stop			
ZA3101.InAlarmTime	0	DINT	
Aeration Blower 1 E-Stop			
ZA3101.RetToNormalDate	0	DINT	
Aeration Blower 1 E-Stop			
ZA3101.RetToNormalTime	0	DINT	
Aeration Blower 1 E-Stop			

ZA3101 (Continued)				
Aeration Blower 1 E-Stop				
ZA3101.AlarmCountResetDate	0		DINT	
Aeration Blower 1 E-Stop				
ZA3101.AlarmCountResetTime	0		DINT	
Aeration Blower 1 E-Stop				
ZI3101	0		BOOL	PLC_SH
Aeration Blower 1 In Remote				
Constant	No			
External Access:	Read/Write			
<i>ZI3101 - MainProgram/L3101_AerationBlower1_VFD - *0(O TE), 18(XIC), 7(XIC)</i>				
ZS3101	0		BOOL	PLC_SH
Aeration Blower 1 E-Stop				
Constant	No			
External Access:	Read/Write			
<i>ZS3101 - MainProgram/L3101_AerationBlower1_VFD - 9(XIC)</i>				

General

Type:	 Ladder Diagram	Number of Rungs:	23
In Program:	 MainProgram		





Name	Value	Data Type	Scope
HS3103	0	BOOL	PLC_SH
Aeration Blower Pressure HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS3103 - MainProgram/L3103_AerBlower_Pressure - *4(OTU), 4(XIC)</i>			
HS3103S	0	BOOL	PLC_SH
Aeration Blower Pressure HMI Service			
Constant	No		
External Access:	Read/Write		
<i>HS3103S - MainProgram/L3103_AerBlower_Pressure - 1(XIC), 2(XIC), 3(XIC)</i>			
Local:5:I		AB:1769_IF8:I:0	PLC_SH
Constant	No		
External Access:	Read/Write		
Local:5:I.Ch0Data	0	INT	
<i>Local:5:I.Ch0Data - MainProgram/L1101_SHT1_Level - 0(MOV)</i>			
Local:5:I.Ch1Data	0	INT	
<i>Local:5:I.Ch1Data - MainProgram/L1102_SHT1_BlanketLevel - 0(MOV)</i>			
Local:5:I.Ch2Data	0	INT	
<i>Local:5:I.Ch2Data - MainProgram/L3103_AerBlower_Pressure - 0(MOV)</i>			
PAH3103		ALRM	PLC_SH
Aeration Blower Pressure Alarm High			
Constant	No		
External Access:	Read/Write		
<i>PAH3103 - MainProgram/L3103_AerBlower_Pressure - *2(ALRM)</i>			
PAH3103.EnableIn	0	BOOL	
Aeration Blower Pressure Alarm High Enable Input - System Defined Parameter			
PAH3103.EnableOut	0	BOOL	
Aeration Blower Pressure Alarm High Enable Output - System Defined Parameter			
PAH3103.Latched	1	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.OperReset	0	BOOL	
Aeration Blower Pressure Alarm High			
<i>PAH3103.OperReset - MainProgram/L3103_AerBlower_Pressure - *4(OTL)</i>			
PAH3103.ProgReset	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.OperDisable	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.OperEnable	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCountReset	0	BOOL	
Aeration Blower Pressure Alarm High Set to 1 to reset alarm count			
PAH3103.InAlarm	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.Disabled	0	BOOL	
Aeration Blower Pressure Alarm High			
PAH3103.MinDurationPRE	30000	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.MinDurationACC	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCount	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.InAlarmDate	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.InAlarmTime	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.RefToNormalDate	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.RefToNormalTime	0	DINT	
Aeration Blower Pressure Alarm High			
PAH3103.AlarmCountResetDate	0	DINT	

PAH3103 (Continued)		
Aeration Blower Pressure Alarm High		
PAH3103.AlarmCountResetTime	0	DINT
Aeration Blower Pressure Alarm High		
PAL3103		ALRM PLC_SH
Aeration Blower Pressure Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>PAL3103 - MainProgram/L3103_AerBlower_Pressure - *3(ALRM)</i>		
PAL3103.EnableIn	0	BOOL
Aeration Blower Pressure Alarm Low Enable Input - System Defined Parameter		
PAL3103.EnableOut	0	BOOL
Aeration Blower Pressure Alarm Low Enable Output - System Defined Parameter		
PAL3103.Latched	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.OperReset	0	BOOL
Aeration Blower Pressure Alarm Low		
<i>PAL3103.OperReset - MainProgram/L3103_AerBlower_Pressure - *4(OTL)</i>		
PAL3103.ProgReset	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.OperDisable	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.OperEnable	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCountReset	0	BOOL
Aeration Blower Pressure Alarm Low Set to 1 to reset alarm count		
PAL3103.InAlarm	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.Disabled	0	BOOL
Aeration Blower Pressure Alarm Low		
PAL3103.MinDurationPRE	30000	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.MinDurationACC	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCount	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.InAlarmDate	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.InAlarmTime	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.RetToNormalDate	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.RetToNormalTime	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCountResetDate	0	DINT
Aeration Blower Pressure Alarm Low		
PAL3103.AlarmCountResetTime	0	DINT
Aeration Blower Pressure Alarm Low		
PAT3103		ALRM PLC_SH
Aeration Blower Pressure Signal Fail		
Constant	No	
External Access:	Read/Write	
<i>PAT3103 - MainProgram/L3103_AerBlower_Pressure - *1(ALRM)</i>		
PAT3103.EnableIn	0	BOOL
Aeration Blower Pressure Signal Fail Enable Input - System Defined Parameter		
PAT3103.EnableOut	0	BOOL
Aeration Blower Pressure Signal Fail Enable Output - System Defined Parameter		
PAT3103.Latched	1	BOOL
Aeration Blower Pressure Signal Fail		
PAT3103.OperReset	0	BOOL
Aeration Blower Pressure Signal Fail		
<i>PAT3103.OperReset - MainProgram/L3103_AerBlower_Pressure - *4(OTL)</i>		

PAT3103 (Continued)			
PAT3103.ProgReset	0	BOOL	
Aeration Blower Pressure Signal Fail			
PAT3103.OperDisable	0	BOOL	
Aeration Blower Pressure Signal Fail			
PAT3103.OperEnable	0	BOOL	
Aeration Blower Pressure Signal Fail			
PAT3103.AlarmCountReset	0	BOOL	
Aeration Blower Pressure Signal Fail Set to 1 to reset alarm count			
PAT3103.InAlarm	0	BOOL	
Aeration Blower Pressure Signal Fail			
<i>PAT3103.InAlarm - MainProgram/L3103_AerBlower_Pressure - 2(XIO), 3(XIO)</i>			
PAT3103.Disabled	0	BOOL	
Aeration Blower Pressure Signal Fail			
PAT3103.MinDurationPRE	30000	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.MinDurationACC	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.AlarmCount	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.InAlarmDate	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.InAlarmTime	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.RetToNormalDate	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.RetToNormalTime	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.AlarmCountResetDate	0	DINT	
Aeration Blower Pressure Signal Fail			
PAT3103.AlarmCountResetTime	0	DINT	
Aeration Blower Pressure Signal Fail			
PCH3103	1000.0	REAL	PLC_SH
Aeration Blower Pressure Alarm High SP			
Constant No			
External Access: Read/Write			
<i>PCH3103 - MainProgram/L3103_AerBlower_Pressure - 2(GRT)</i>			
PCL3103	0.0	REAL	PLC_SH
Aeration Blower Pressure Alarm Low SP			
Constant No			
External Access: Read/Write			
<i>PCL3103 - MainProgram/L3103_AerBlower_Pressure - 3(LES)</i>			
PI3103		SCP	PLC_SH
Aeration Blower Pressure			
Constant No			
External Access: Read/Write			
<i>PI3103 - MainProgram/L3103_AerBlower_Pressure - *0(SCP)</i>			
PI3103.EnableIn	1	BOOL	
Aeration Blower Pressure Enable Input - System Defined Parameter			
PI3103.EnableOut	1	BOOL	
Aeration Blower Pressure Enable Output - System Defined Parameter			
PI3103.Input	0.0	REAL	
Aeration Blower Pressure			
<i>PI3103.Input - MainProgram/L3103_AerBlower_Pressure - *0(MOV), 1(LIM)</i>			
PI3103.InputMin	4000.0	REAL	
Aeration Blower Pressure			
PI3103.InputMax	20000.0	REAL	
Aeration Blower Pressure			
PI3103.OutputMin	0.0	REAL	
Aeration Blower Pressure			
PI3103.OutputMax	100.0	REAL	

PI3103 (Continued)			
Aeration Blower Pressure			
PI3103.Output	0.0	REAL	
Aeration Blower Pressure			
<i>PI3103.Output - MainProgram/L3103_AerBlower_Pressure - 2(GRT), 3(LES)</i>			
PI3103.ClampMin	1	BOOL	
Aeration Blower Pressure			
PI3103.ClampMax	1	BOOL	
Aeration Blower Pressure			
YI3101	0	BOOL	PLC_SH
Aeration Blower 1 Running			
Constant	No		
External Access:	Read/Write		
<i>YI3101 - MainProgram/L3101_AerationBlower1_VFD - *1(OTE), 22(XIC), 6(XIO), 7(XIC)</i>			
<i>YI3101 - MainProgram/L3103_AerBlower_Pressure - 2(XIC), 3(XIC)</i>			
YI3201	0	BOOL	PLC_SH
Aeration Blower 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI3201 - MainProgram/L3103_AerBlower_Pressure - 2(XIC), 3(XIC)</i>			
<i>YI3201 - MainProgram/L3201_AerationBlower2_VFD - *1(OTE), 22(XIC), 6(XIO), 7(XIC)</i>			

General

Type:	 Ladder Diagram	Number of Rungs:	5
In Program:	 MainProgram		

Sludge Pump 1 VFD
(P-70-1104)

This is going to be a network controlled drive

Aeration Blower 2
In Remote
ZI3201

Aeration Blower 2
Running
YI3201

Aeration Blower 2
Fail Switch
YS3201

0

1

2

3

4

5

6

Aeration Blower 2
Start Command
SS3201.StartCmd

Dummy

Aeration Blower 2
Speed

SCP	
SCP	SI3201 ...
Input	0.0
InputMin	4000.0
InputMax	20000.0
OutputMin	0.0
OutputMax	60.0
Output	0.0

Aeration Blower 2
Speed Control

SCP	
SCP	SC3201 ...
Input	41.99942
InputMin	0.0
InputMax	60.0
OutputMin	4000.0
OutputMax	20000.0
Output	15199.846

-Alarms-

Aeration Blower 2
HMI Service
HS3201S

Aeration Blower 2
Start Command
SS3201.StartCmd

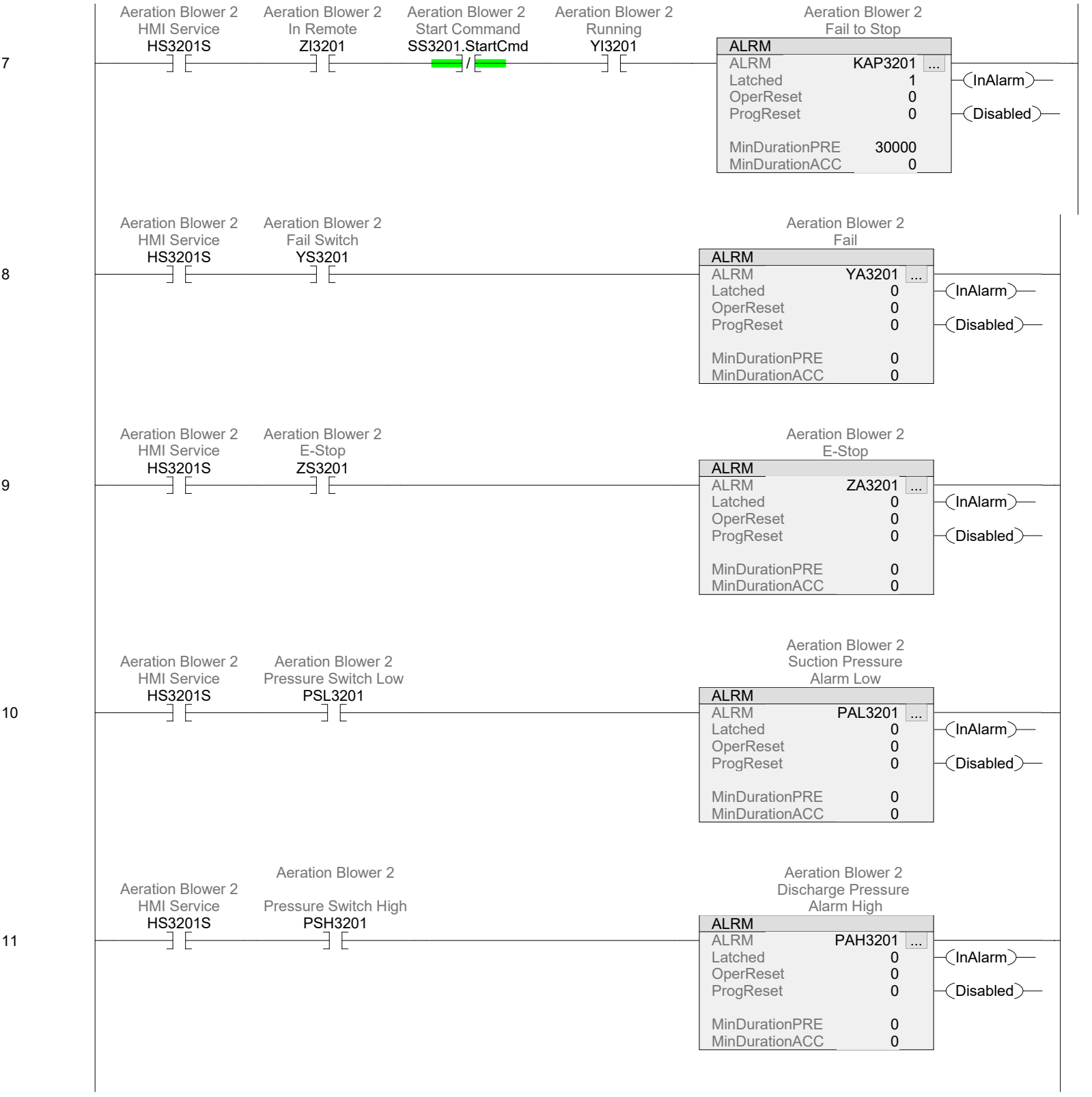
Aeration Blower 2
Running
YI3201

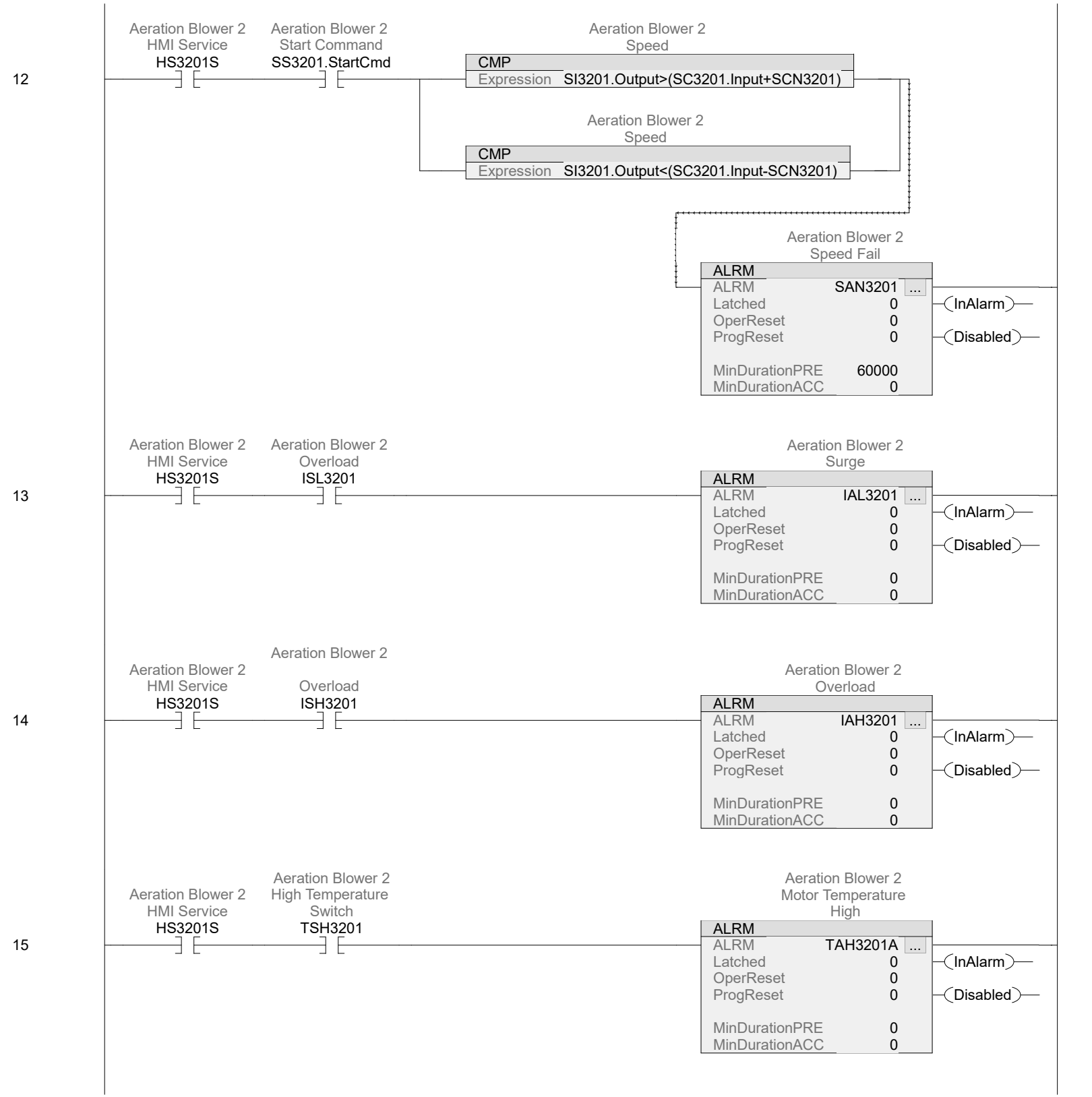
Aeration Blower 2
Fail to Start

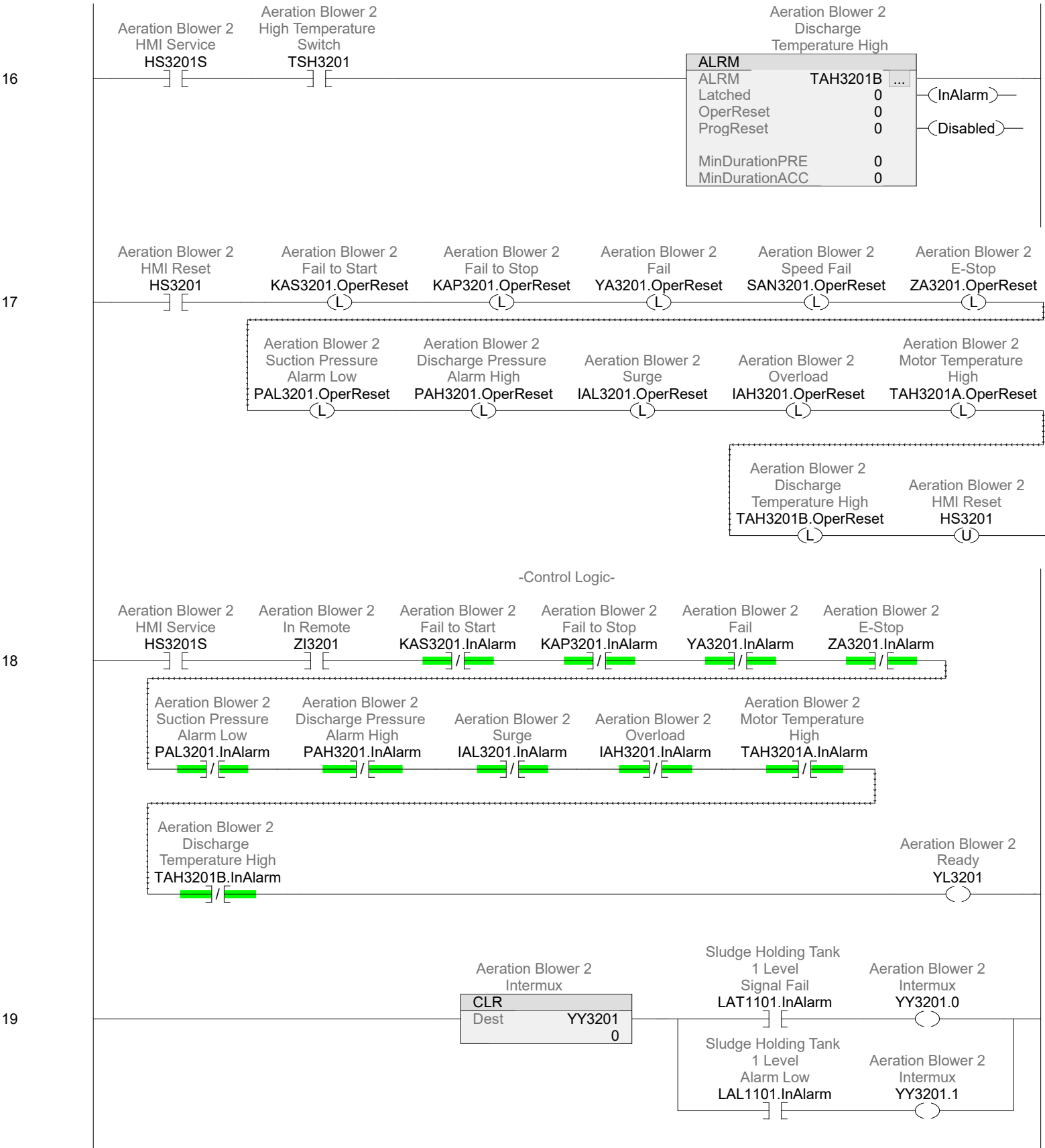
ALRM	
ALRM	KAS3201 ...
Latched	1
OperReset	0
ProgReset	0
MinDurationPRE	30000
MinDurationACC	0

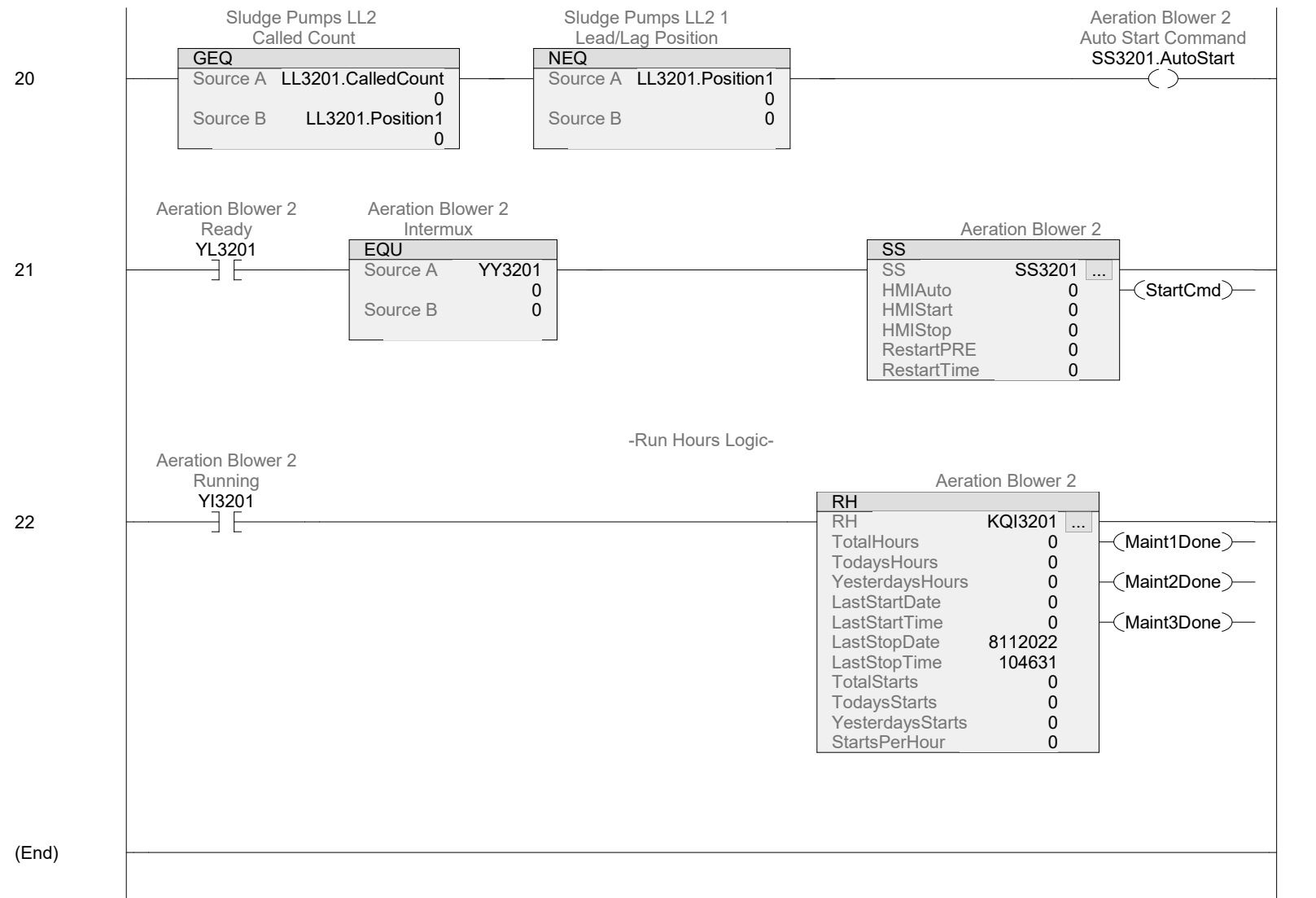
(InAlarm)

(Disabled)









Name	Value	Data Type	Scope
Dummy	0	BOOL	PLC_SH
Constant	No		
External Access:	Read/Write		
<i>Dummy - MainProgram/L3101_AerationBlower1_VFD - *3(OTE)</i>			
<i>Dummy - MainProgram/L3201_AerationBlower2_VFD - *3(OTE)</i>			
HS3201	0	BOOL	PLC_SH
Aeration Blower 2 HMI Reset			
Constant	No		
External Access:	Read/Write		
<i>HS3201 - MainProgram/L3201_AerationBlower2_VFD - *17(OTU), 17(XIC)</i>			
HS3201S	0	BOOL	PLC_SH
Aeration Blower 2 HMI Service			
Constant	No		
External Access:	Read Only		
<i>HS3201S - MainProgram/L3201_AerationBlower2_VFD - 10(XIC), 11(XIC), 12(XIC), 13(XIC), 14(XIC), 15(XIC), 16(XIC), 18(XIC), 6(XIC), 7(XIC), 8(XIC), 9(XIC)</i>			
IAH3201		ALRM	PLC_SH
Aeration Blower 2 Overload			
Constant	No		
External Access:	Read/Write		
<i>IAH3201 - MainProgram/L3201_AerationBlower2_VFD - *14(ALRM)</i>			
IAH3201.EnableIn	0	BOOL	
Aeration Blower 2 Overload Enable Input - System Defined Parameter			
IAH3201.EnableOut	0	BOOL	
Aeration Blower 2 Overload Enable Output - System Defined Parameter			
IAH3201.Latched	0	BOOL	
Aeration Blower 2 Overload			
IAH3201.OperReset	0	BOOL	
Aeration Blower 2 Overload			
<i>IAH3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
IAH3201.ProgReset	0	BOOL	
Aeration Blower 2 Overload			
IAH3201.OperDisable	0	BOOL	
Aeration Blower 2 Overload			
IAH3201.OperEnable	0	BOOL	
Aeration Blower 2 Overload			
IAH3201.AlarmCountReset	0	BOOL	
Aeration Blower 2 Overload Set to 1 to reset alarm count			
IAH3201.InAlarm	0	BOOL	
Aeration Blower 2 Overload			
<i>IAH3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>			
IAH3201.Disabled	0	BOOL	
Aeration Blower 2 Overload			
IAH3201.MinDurationPRE	0	DINT	
Aeration Blower 2 Overload			
IAH3201.MinDurationACC	0	DINT	
Aeration Blower 2 Overload			
IAH3201.AlarmCount	0	DINT	
Aeration Blower 2 Overload			
IAH3201.InAlarmDate	0	DINT	
Aeration Blower 2 Overload			
IAH3201.InAlarmTime	0	DINT	
Aeration Blower 2 Overload			
IAH3201.RetToNormalDate	0	DINT	
Aeration Blower 2 Overload			
IAH3201.RetToNormalTime	0	DINT	
Aeration Blower 2 Overload			
IAH3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Overload			
IAH3201.AlarmCountResetTime	0	DINT	

IAH3201 (Continued)				
Aeration Blower 2 Overload				
IAL3201			ALRM	PLC_SH
Aeration Blower 2 Surge				
Constant	No			
External Access:	Read/Write			
<i>IAL3201 - MainProgram/L3201_AerationBlower2_VFD - *13(ALRM)</i>				
IAL3201.EnableIn	0		BOOL	
Aeration Blower 2 Surge Enable Input - System Defined Parameter				
IAL3201.EnableOut	0		BOOL	
Aeration Blower 2 Surge Enable Output - System Defined Parameter				
IAL3201.Latched	0		BOOL	
Aeration Blower 2 Surge				
IAL3201.OperReset	0		BOOL	
Aeration Blower 2 Surge				
<i>IAL3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>				
IAL3201.ProgReset	0		BOOL	
Aeration Blower 2 Surge				
IAL3201.OperDisable	0		BOOL	
Aeration Blower 2 Surge				
IAL3201.OperEnable	0		BOOL	
Aeration Blower 2 Surge				
IAL3201.AlarmCountReset	0		BOOL	
Aeration Blower 2 Surge Set to 1 to reset alarm count				
IAL3201.InAlarm	0		BOOL	
Aeration Blower 2 Surge				
<i>IAL3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>				
IAL3201.Disabled	0		BOOL	
Aeration Blower 2 Surge				
IAL3201.MinDurationPRE	0		DINT	
Aeration Blower 2 Surge				
IAL3201.MinDurationACC	0		DINT	
Aeration Blower 2 Surge				
IAL3201.AlarmCount	0		DINT	
Aeration Blower 2 Surge				
IAL3201.InAlarmDate	0		DINT	
Aeration Blower 2 Surge				
IAL3201.InAlarmTime	0		DINT	
Aeration Blower 2 Surge				
IAL3201.RetToNormalDate	0		DINT	
Aeration Blower 2 Surge				
IAL3201.RetToNormalTime	0		DINT	
Aeration Blower 2 Surge				
IAL3201.AlarmCountResetDate	0		DINT	
Aeration Blower 2 Surge				
IAL3201.AlarmCountResetTime	0		DINT	
Aeration Blower 2 Surge				
ISH3201	0		BOOL	PLC_SH
Aeration Blower 2				
Overstand	No			
External Access:	Read/Write			
<i>ISH3201 - MainProgram/L3201_AerationBlower2_VFD - 14(XIC)</i>				
ISL3201	0		BOOL	PLC_SH
Aeration Blower 2 Overload				
Constant	No			
External Access:	Read/Write			
<i>ISL3201 - MainProgram/L3201_AerationBlower2_VFD - 13(XIC)</i>				
KAP3201			ALRM	PLC_SH
Aeration Blower 2 Fail to Stop				
Constant	No			

KAP3201 (Continued)

External Access:	Read/Write	
<i>KAP3201 - MainProgram/L3201_AerationBlower2_VFD - *7(ALRM)</i>		
KAP3201.EnableIn	0	BOOL
Aeration Blower 2 Fail to Stop Enable Input - System Defined Parameter		
KAP3201.EnableOut	0	BOOL
Aeration Blower 2 Fail to Stop Enable Output - System Defined Parameter		
KAP3201.Latched	1	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.OperReset	0	BOOL
Aeration Blower 2 Fail to Stop		
<i>KAP3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
KAP3201.ProgReset	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.OperDisable	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.OperEnable	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Fail to Stop Set to 1 to reset alarm count		
KAP3201.InAlarm	0	BOOL
Aeration Blower 2 Fail to Stop		
<i>KAP3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
KAP3201.Disabled	0	BOOL
Aeration Blower 2 Fail to Stop		
KAP3201.MinDurationPRE	30000	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.MinDurationACC	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCount	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.InAlarmDate	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.InAlarmTime	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.RefToNormalDate	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.RefToNormalTime	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCountResetDate	0	DINT
Aeration Blower 2 Fail to Stop		
KAP3201.AlarmCountResetTime	0	DINT
Aeration Blower 2 Fail to Stop		

KAS3201 ALRM PLC_SH

Aeration Blower 2 Fail to Start		
Constant	No	
External Access:	Read/Write	
<i>KAS3201 - MainProgram/L3201_AerationBlower2_VFD - *6(ALRM)</i>		
KAS3201.EnableIn	0	BOOL
Aeration Blower 2 Fail to Start Enable Input - System Defined Parameter		
KAS3201.EnableOut	0	BOOL
Aeration Blower 2 Fail to Start Enable Output - System Defined Parameter		
KAS3201.Latched	1	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.OperReset	0	BOOL
Aeration Blower 2 Fail to Start		
<i>KAS3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
KAS3201.ProgReset	0	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.OperDisable	0	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.OperEnable	0	BOOL
Aeration Blower 2 Fail to Start		

KAS3201 (Continued)		
KAS3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Fail to Start Set to 1 to reset alarm count		
KAS3201.InAlarm	0	BOOL
Aeration Blower 2 Fail to Start		
<i>KAS3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
KAS3201.Disabled	0	BOOL
Aeration Blower 2 Fail to Start		
KAS3201.MinDurationPRE	30000	DINT
Aeration Blower 2 Fail to Start		
KAS3201.MinDurationACC	0	DINT
Aeration Blower 2 Fail to Start		
KAS3201.AlarmCount	0	DINT
Aeration Blower 2 Fail to Start		
KAS3201.InAlarmDate	0	DINT
Aeration Blower 2 Fail to Start		
KAS3201.InAlarmTime	0	DINT
Aeration Blower 2 Fail to Start		
KAS3201.RefToNormalDate	0	DINT
Aeration Blower 2 Fail to Start		
KAS3201.RefToNormalTime	0	DINT
Aeration Blower 2 Fail to Start		
KAS3201.AlarmCountResetDate	0	DINT
Aeration Blower 2 Fail to Start		
KAS3201.AlarmCountResetTime	0	DINT
Aeration Blower 2 Fail to Start		
KQI3201		RH
Aeration Blower 2		
Constant	No	
External Access:	Read/Write	
<i>KQI3201 - MainProgram/L3201_AerationBlower2_VFD - *22(RH)</i>		
KQI3201.EnableIn	0	BOOL
Aeration Blower 2 Enable Input - System Defined Parameter		
KQI3201.EnableOut	0	BOOL
Aeration Blower 2 Enable Output - System Defined Parameter		
KQI3201.TotalHours	0	DINT
Aeration Blower 2 Total ETM		
KQI3201.TodaysHours	0	DINT
Aeration Blower 2 Today's ETM		
KQI3201.YesterdaysHours	0	DINT
Aeration Blower 2 Yesterday's ETM		
KQI3201.LastStartDate	0	DINT
Aeration Blower 2 Last Start Date		
KQI3201.LastStartTime	0	DINT
Aeration Blower 2 Last Start Time		
KQI3201.LastStopDate	8112022	DINT
Aeration Blower 2 Last Stop Date		
KQI3201.LastStopTime	104631	DINT
Aeration Blower 2 Last Stop Time		
KQI3201.TotalStarts	0	DINT
Aeration Blower 2 Total Starts		
KQI3201.TodaysStarts	0	DINT
Aeration Blower 2 Today's Starts		
KQI3201.YesterdaysStarts	0	DINT
Aeration Blower 2 Yesterday's Starts		
KQI3201.StartsPerHour	0	DINT
Aeration Blower 2 Calculated Number of Starts per Hour		
KQI3201.HourSP	0	DINT
Aeration Blower 2 Hour to Rollover (0 - 23)		
KQI3201.MinuteSP	0	DINT
Aeration Blower 2 Minute to Rollover (0 - 59)		
KQI3201.HMIRreset	0	BOOL
Aeration Blower 2		

PLC_SH

KQI3201 (Continued)		
KQI3201.Maint1Hours	0	DINT
Aeration Blower 2 Maintenance 1 Hours		
KQI3201.Maint2Hours	0	DINT
Aeration Blower 2 Maintenance 2 Hours		
KQI3201.Maint3Hours	0	DINT
Aeration Blower 2 Maintenance 3 Hours		
KQI3201.Maint1Done	0	BOOL
Aeration Blower 2 Maintenance 1 Due		
KQI3201.Maint2Done	0	BOOL
Aeration Blower 2 Maintenance 2 Due		
KQI3201.Maint3Done	0	BOOL
Aeration Blower 2 Maintenance 3 Due		
KQI3201.Maint1SP	50000	DINT
Aeration Blower 2 Maintenance 1 Hours SP		
KQI3201.Maint2SP	50000	DINT
Aeration Blower 2 Maintenance 2 Hours SP		
KQI3201.Maint3SP	50000	DINT
Aeration Blower 2 Maintenance 3 Hours SP		
LAL1101		ALRM
Sludge Holding Tank 1 Level Alarm Low		
Constant	No	
External Access:	Read/Write	
<i>LAL1101 - MainProgram/L1101_SHT1_Level - *3(ALRM)</i>		
LAL1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Input - System Defined Parameter		
LAL1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Enable Output - System Defined Parameter		
LAL1101.Latched	1	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAL1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Alarm Low Set to 1 to reset alarm count		
LAL1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
<i>LAL1101.InAlarm - MainProgram/L1100_PressControl - 0(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>		
<i>LAL1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>		
LAL1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationPRE	30000	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RetToNormalDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.RetToNormalTime	0	DINT

PLC_SH

LAL1101 (Continued)		
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAL1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Alarm Low		
LAT1101		ALRM PLC_SH
Sludge Holding Tank 1 Level Signal Fail		
Constant	No	
External Access:	Read/Write	
<i>LAT1101 - MainProgram/L1101_SHT1_Level - *1(ALRM)</i>		
LAT1101.EnableIn	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Enable Input - System Defined Parameter		
LAT1101.EnableOut	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Enable Output - System Defined Parameter		
LAT1101.Latched	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
<i>LAT1101.OperReset - MainProgram/L1101_SHT1_Level - *4(OTL)</i>		
LAT1101.ProgReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperDisable	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.OperEnable	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountReset	0	BOOL
Sludge Holding Tank 1 Level Signal Fail Set to 1 to reset alarm count		
LAT1101.InAlarm	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
<i>LAT1101.InAlarm - MainProgram/L1101_SHT1_Level - 2(XIO), 3(XIO)</i>		
<i>LAT1101.InAlarm - MainProgram/L1104_SludgeFeedPump1_VFD - 20(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L1204_SludgeFeedPump2_VFD - 20(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L3101_AerationBlower1_VFD - 19(XIC)</i>		
<i>LAT1101.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 19(XIC)</i>		
LAT1101.Disabled	0	BOOL
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.MinDurationPRE	5000	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.MinDurationACC	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCount	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.InAlarmDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.InAlarmTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.RefToNormalDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.RefToNormalTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountResetDate	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LAT1101.AlarmCountResetTime	0	DINT
Sludge Holding Tank 1 Level Signal Fail		
LL3201		LL PLC_SH
Sludge Pumps LL2		
Constant	No	
External Access:	Read/Write	
LL3201.EnableIn	1	BOOL
Sludge Pumps LL2 Enable Input - System Defined Parameter		
LL3201.EnableOut	1	BOOL

LL3201 (Continued)

Sludge Pumps LL2 Enable Output - System Defined Parameter		
LL3201.AlternationMode	0	DINT
Sludge Pumps LL2 Alternation Mode		
LL3201.AlternationPRE	2400	DINT
Sludge Pumps LL2 Alternation Time Preset (0.01 HRS)		
LL3201.AlternationACC	0	DINT
Sludge Pumps LL2 Alternation Time Accumulated (0.01 HRS)		
LL3201.NextCall	0	DINT
Sludge Pumps LL2 (1)Increase Call (0)No Call (-1)Decrease Call		
LL3201.NextCallCountDown	0	DINT
Sludge Pumps LL2 Next Call Count Down (Milliseconds)		
LL3201.NextCalled	0	DINT
Sludge Pumps LL2 (Equipment Number)		
LL3201.CalledCount	0	DINT
Sludge Pumps LL2 Called Count		
<i>LL3201.CalledCount - MainProgram/L3201_AerationBlower2_VFD - 20(GEQ)</i>		
LL3201.ReadyCount	0	DINT
Sludge Pumps LL2 Ready Count		
LL3201.OnCountTotal	0	DINT
Sludge Pumps LL2 Total On Count		
LL3201.OnCountAuto	0	DINT
Sludge Pumps LL2 Auto On Count		
LL3201.OnCountMax	1	DINT
Sludge Pumps LL2 Maximum On Count		
LL3201.Ready1	0	BOOL
Sludge Pumps LL2 1 Ready		
LL3201.Ready2	0	BOOL
Sludge Pumps LL2 2 Ready		
LL3201.Ready3	0	BOOL
Sludge Pumps LL2 3 Ready		
LL3201.Ready4	0	BOOL
Sludge Pumps LL2 4 Ready		
LL3201.Ready5	0	BOOL
Sludge Pumps LL2 5 Ready		
LL3201.Ready6	0	BOOL
Sludge Pumps LL2 6 Ready		
LL3201.RunHours1	0	DINT
Sludge Pumps LL2 1 Total ETM		
LL3201.RunHours2	0	DINT
Sludge Pumps LL2 2 Total ETM		
LL3201.RunHours3	0	DINT
Sludge Pumps LL2 3 Total ETM		
LL3201.RunHours4	0	DINT
Sludge Pumps LL2 4 Total ETM		
LL3201.RunHours5	0	DINT
Sludge Pumps LL2 5 Total ETM		
LL3201.RunHours6	0	DINT
Sludge Pumps LL2 6 Total ETM		
LL3201.Position1SP	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position SP		
LL3201.Position2SP	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position SP		
LL3201.Position3SP	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position SP		
LL3201.Position4SP	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position SP		
LL3201.Position5SP	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position SP		
LL3201.Position6SP	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position SP		
LL3201.Position1	0	DINT
Sludge Pumps LL2 1 Lead/Lag Position		
<i>LL3201.Position1 - MainProgram/L3201_AerationBlower2_VFD - 20(GEQ), 20(NEQ)</i>		

LL3201 (Continued)		
LL3201.Position2	0	DINT
Sludge Pumps LL2 2 Lead/Lag Position		
LL3201.Position3	0	DINT
Sludge Pumps LL2 3 Lead/Lag Position		
LL3201.Position4	0	DINT
Sludge Pumps LL2 4 Lead/Lag Position		
LL3201.Position5	0	DINT
Sludge Pumps LL2 5 Lead/Lag Position		
LL3201.Position6	0	DINT
Sludge Pumps LL2 6 Lead/Lag Position		
LL3201.Delay0_1	5000	DINT
Sludge Pumps LL2 Call On 0 to 1 Delay (Milliseconds)		
LL3201.Delay1_2	10000	DINT
Sludge Pumps LL2 Call On 1 to 2 Delay (Milliseconds)		
LL3201.Delay2_3	15000	DINT
Sludge Pumps LL2 Call On 2 to 3 Delay (Milliseconds)		
LL3201.Delay3_4	20000	DINT
Sludge Pumps LL2 Call On 3 to 4 Delay (Milliseconds)		
LL3201.Delay4_5	25000	DINT
Sludge Pumps LL2 Call On 4 to 5 Delay (Milliseconds)		
LL3201.Delay5_6	30000	DINT
Sludge Pumps LL2 Call On 5 to 6 Delay (Milliseconds)		
LL3201.Delay6_5	30000	DINT
Sludge Pumps LL2 Call Off 6 to 5 Delay (Milliseconds)		
LL3201.Delay5_4	25000	DINT
Sludge Pumps LL2 Call Off 5 to 4 Delay (Milliseconds)		
LL3201.Delay4_3	20000	DINT
Sludge Pumps LL2 Call Off 4 to 3 Delay (Milliseconds)		
LL3201.Delay3_2	15000	DINT
Sludge Pumps LL2 Call Off 3 to 2 Delay (Milliseconds)		
LL3201.Delay2_1	10000	DINT
Sludge Pumps LL2 Call Off 2 to 1 Delay (Milliseconds)		
LL3201.Delay1_0	5000	DINT
Sludge Pumps LL2 Call Off 1 to 0 Delay (Milliseconds)		
LL3201.MaxOn	0	BOOL
Sludge Pumps LL2 Maximum Number of Devices are Running		
LL3201.On1	0	BOOL
Sludge Pumps LL2		
LL3201.On2	0	BOOL
Sludge Pumps LL2		
LL3201.On3	0	BOOL
Sludge Pumps LL2		
LL3201.On4	0	BOOL
Sludge Pumps LL2		
LL3201.On5	0	BOOL
Sludge Pumps LL2		
LL3201.On6	0	BOOL
Sludge Pumps LL2		
LL3201.CountUpOS	0	BOOL
Sludge Pumps LL2		
LL3201.CountDownOS	0	BOOL
Sludge Pumps LL2		
PAH3201		ALRM
Aeration Blower 2 Discharge Pressure Alarm High		
Constant	No	
External Access:	Read/Write	
<i>PAH3201 - MainProgram/L3201_AerationBlower2_VFD - *11(ALRM)</i>		
PAH3201.EnableIn	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High Enable Input - System Defined Parameter		
PAH3201.EnableOut	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High Enable Output - System Defined Parameter		
PAH3201.Latched	0	BOOL

PLC_SH

PAH3201 (Continued)

Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.OperReset	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High		
<i>PAH3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
PAH3201.ProgReset	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.OperDisable	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.OperEnable	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCountReset	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High Set to 1 to reset alarm count		
PAH3201.InAlarm	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High		
<i>PAH3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
PAH3201.Disabled	0	BOOL
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.MinDurationPRE	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.MinDurationACC	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCount	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.InAlarmDate	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.InAlarmTime	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.RetToNormalDate	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.RetToNormalTime	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCountResetDate	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		
PAH3201.AlarmCountResetTime	0	DINT
Aeration Blower 2 Discharge Pressure Alarm High		

PAL3201		ALRM	PLC_SH
Aeration Blower 2 Suction Pressure Alarm Low			
Constant	No		
External Access:	Read/Write		
<i>PAL3201 - MainProgram/L3201_AerationBlower2_VFD - *10(ALRM)</i>			
PAL3201.EnableIn	0	BOOL	
Aeration Blower 2 Suction Pressure Alarm Low Enable Input - System Defined Parameter			
PAL3201.EnableOut	0	BOOL	
Aeration Blower 2 Suction Pressure Alarm Low Enable Output - System Defined Parameter			
PAL3201.Latched	0	BOOL	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.OperReset	0	BOOL	
Aeration Blower 2 Suction Pressure Alarm Low			
<i>PAL3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
PAL3201.ProgReset	0	BOOL	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.OperDisable	0	BOOL	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.OperEnable	0	BOOL	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.AlarmCountReset	0	BOOL	
Aeration Blower 2 Suction Pressure Alarm Low Set to 1 to reset alarm count			
PAL3201.InAlarm	0	BOOL	
Aeration Blower 2 Suction Pressure Alarm Low			
<i>PAL3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>			
PAL3201.Disabled	0	BOOL	
Aeration Blower 2 Suction Pressure Alarm Low			

PAL3201 (Continued)			
PAL3201.MinDurationPRE	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.MinDurationACC	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.AlarmCount	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.InAlarmDate	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.InAlarmTime	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.RetToNormalDate	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.RetToNormalTime	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PAL3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Suction Pressure Alarm Low			
PSH3201	0	BOOL	PLC_SH
Aeration Blower 2			
Constant	No		
External Access: Read/Write			
<i>PSH3201 - MainProgram/L3201_AerationBlower2_VFD - 11(XIC)</i>			
PSL3201	0	BOOL	PLC_SH
Aeration Blower 2 Pressure Switch Low			
Constant	No		
External Access: Read/Write			
<i>PSL3201 - MainProgram/L3201_AerationBlower2_VFD - 10(XIC)</i>			
SAN3201		ALRM	PLC_SH
Aeration Blower 2 Speed Fail			
Constant	No		
External Access: Read/Write			
<i>SAN3201 - MainProgram/L3201_AerationBlower2_VFD - *12(ALRM)</i>			
SAN3201.EnableIn	0	BOOL	
Aeration Blower 2 Speed Fail Enable Input - System Defined Parameter			
SAN3201.EnableOut	0	BOOL	
Aeration Blower 2 Speed Fail Enable Output - System Defined Parameter			
SAN3201.Latched	0	BOOL	
Aeration Blower 2 Speed Fail			
SAN3201.OperReset	0	BOOL	
Aeration Blower 2 Speed Fail			
<i>SAN3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
SAN3201.ProgReset	0	BOOL	
Aeration Blower 2 Speed Fail			
SAN3201.OperDisable	0	BOOL	
Aeration Blower 2 Speed Fail			
SAN3201.OperEnable	0	BOOL	
Aeration Blower 2 Speed Fail			
SAN3201.AlarmCountReset	0	BOOL	
Aeration Blower 2 Speed Fail Set to 1 to reset alarm count			
SAN3201.InAlarm	0	BOOL	
Aeration Blower 2 Speed Fail			
SAN3201.Disabled	0	BOOL	
Aeration Blower 2 Speed Fail			
SAN3201.MinDurationPRE	60000	DINT	
Aeration Blower 2 Speed Fail			
SAN3201.MinDurationACC	0	DINT	
Aeration Blower 2 Speed Fail			
SAN3201.AlarmCount	0	DINT	
Aeration Blower 2 Speed Fail			

SAN3201 (Continued)			
SAN3201.InAlarmDate	0	DINT	
Aeration Blower 2 Speed Fail			
SAN3201.InAlarmTime	0	DINT	
Aeration Blower 2 Speed Fail			
SAN3201.RefToNormalDate	0	DINT	
Aeration Blower 2 Speed Fail			
SAN3201.RefToNormalTime	0	DINT	
Aeration Blower 2 Speed Fail			
SAN3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Speed Fail			
SAN3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Speed Fail			
SC3201		SCP	PLC_SH
Aeration Blower 2 Speed Control			
Constant	No		
External Access:	Read/Write		
<i>SC3201 - MainProgram/L3201_AerationBlower2_VFD - *5(SCP)</i>			
SC3201.EnableIn	1	BOOL	
Aeration Blower 2 Speed Control Enable Input - System Defined Parameter			
SC3201.EnableOut	1	BOOL	
Aeration Blower 2 Speed Control Enable Output - System Defined Parameter			
SC3201.Input	41.99942	REAL	
Aeration Blower 2 Speed Control			
<i>SC3201.Input - MainProgram/L3201_AerationBlower2_VFD - 12(CMP)</i>			
SC3201.InputMin	0.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.InputMax	60.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.OutputMin	4000.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.OutputMax	20000.0	REAL	
Aeration Blower 2 Speed Control			
SC3201.Output	15199.846	REAL	
Aeration Blower 2 Speed Control			
SC3201.ClampMin	1	BOOL	
Aeration Blower 2 Speed Control			
SC3201.ClampMax	1	BOOL	
Aeration Blower 2 Speed Control			
SCN3201	50.0	REAL	PLC_SH
Aeration Blower 2 Speed Deviation SP			
Constant	No		
External Access:	Read/Write		
<i>SCN3201 - MainProgram/L3201_AerationBlower2_VFD - 12(CMP)</i>			
SI3201		SCP	PLC_SH
Aeration Blower 2 Speed			
Constant	No		
External Access:	Read/Write		
<i>SI3201 - MainProgram/L3201_AerationBlower2_VFD - *4(SCP)</i>			
SI3201.EnableIn	1	BOOL	
Aeration Blower 2 Speed Enable Input - System Defined Parameter			
SI3201.EnableOut	1	BOOL	
Aeration Blower 2 Speed Enable Output - System Defined Parameter			
SI3201.Input	0.0	REAL	
Aeration Blower 2 Speed			
SI3201.InputMin	4000.0	REAL	
Aeration Blower 2 Speed			
SI3201.InputMax	20000.0	REAL	
Aeration Blower 2 Speed			
SI3201.OutputMin	0.0	REAL	
Aeration Blower 2 Speed			

SI3201 (Continued)		
SI3201.OutputMax	60.0	REAL
Aeration Blower 2 Speed		
SI3201.Output	0.0	REAL
Aeration Blower 2 Speed		
<i>SI3201.Output - MainProgram/L3201_AerationBlower2_VFD - 12(CMP)</i>		
SI3201.ClampMin	1	BOOL
Aeration Blower 2 Speed		
SI3201.ClampMax	1	BOOL
Aeration Blower 2 Speed		
SS3201		SS
Aeration Blower 2		
Constant	No	
External Access:	Read/Write	
<i>SS3201 - MainProgram/L3201_AerationBlower2_VFD - *21(SS)</i>		
SS3201.EnableIn	0	BOOL
Aeration Blower 2 Enable Input - System Defined Parameter		
SS3201.EnableOut	0	BOOL
Aeration Blower 2 Enable Output - System Defined Parameter		
SS3201.HMIAuto	0	BOOL
Aeration Blower 2 HMI Auto		
SS3201.AutoStart	0	BOOL
Aeration Blower 2 Auto Start Command		
<i>SS3201.AutoStart - MainProgram/L3201_AerationBlower2_VFD - *20(OTE)</i>		
SS3201.HMISTart	0	BOOL
Aeration Blower 2 HMI Manual Start		
SS3201.HMISTop	0	BOOL
Aeration Blower 2 HMI Manual Stop		
SS3201.StartCmd	0	BOOL
Aeration Blower 2 Start Command		
<i>SS3201.StartCmd - MainProgram/L3201_AerationBlower2_VFD - 12(XIC), 3(XIC), 6(XIC), 7(XIO)</i>		
SS3201.RestartActive	0	BOOL
Aeration Blower 2 Restart Delay Active		
SS3201.RestartPRE	0	DINT
Aeration Blower 2 Restart Delay Preset (Milliseconds)		
SS3201.RestartTime	0	DINT
Aeration Blower 2 Actual Restart Time (Times Down)		
TAH3201A		ALRM
Aeration Blower 2 Motor Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH3201A - MainProgram/L3201_AerationBlower2_VFD - *15(ALRM)</i>		
TAH3201A.EnableIn	0	BOOL
Aeration Blower 2 Motor Temperature High Enable Input - System Defined Parameter		
TAH3201A.EnableOut	0	BOOL
Aeration Blower 2 Motor Temperature High Enable Output - System Defined Parameter		
TAH3201A.Latched	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.OperReset	0	BOOL
Aeration Blower 2 Motor Temperature High		
<i>TAH3201A.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
TAH3201A.ProgReset	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.OperDisable	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.OperEnable	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCountReset	0	BOOL
Aeration Blower 2 Motor Temperature High Set to 1 to reset alarm count		
TAH3201A.InAlarm	0	BOOL
Aeration Blower 2 Motor Temperature High		
<i>TAH3201A.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		

TAH3201A (Continued)		
TAH3201A.Disabled	0	BOOL
Aeration Blower 2 Motor Temperature High		
TAH3201A.MinDurationPRE	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.MinDurationACC	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCount	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.InAlarmDate	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.InAlarmTime	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.RetToNormalDate	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.RetToNormalTime	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCountResetDate	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201A.AlarmCountResetTime	0	DINT
Aeration Blower 2 Motor Temperature High		
TAH3201B		ALRM
Aeration Blower 2 Discharge Temperature High		
Constant	No	
External Access:	Read/Write	
<i>TAH3201B - MainProgram/L3201_AerationBlower2_VFD - *16(ALRM)</i>		
TAH3201B.EnableIn	0	BOOL
Aeration Blower 2 Discharge Temperature High Enable Input - System Defined Parameter		
TAH3201B.EnableOut	0	BOOL
Aeration Blower 2 Discharge Temperature High Enable Output - System Defined Parameter		
TAH3201B.Latched	0	BOOL
Aeration Blower 2 Discharge Temperature High		
TAH3201B.OperReset	0	BOOL
Aeration Blower 2 Discharge Temperature High		
<i>TAH3201B.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>		
TAH3201B.ProgReset	0	BOOL
Aeration Blower 2 Discharge Temperature High		
TAH3201B.OperDisable	0	BOOL
Aeration Blower 2 Discharge Temperature High		
TAH3201B.OperEnable	0	BOOL
Aeration Blower 2 Discharge Temperature High		
TAH3201B.AlarmCountReset	0	BOOL
Aeration Blower 2 Discharge Temperature High Set to 1 to reset alarm count		
TAH3201B.InAlarm	0	BOOL
Aeration Blower 2 Discharge Temperature High		
<i>TAH3201B.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>		
TAH3201B.Disabled	0	BOOL
Aeration Blower 2 Discharge Temperature High		
TAH3201B.MinDurationPRE	0	DINT
Aeration Blower 2 Discharge Temperature High		
TAH3201B.MinDurationACC	0	DINT
Aeration Blower 2 Discharge Temperature High		
TAH3201B.AlarmCount	0	DINT
Aeration Blower 2 Discharge Temperature High		
TAH3201B.InAlarmDate	0	DINT
Aeration Blower 2 Discharge Temperature High		
TAH3201B.InAlarmTime	0	DINT
Aeration Blower 2 Discharge Temperature High		
TAH3201B.RetToNormalDate	0	DINT
Aeration Blower 2 Discharge Temperature High		
TAH3201B.RetToNormalTime	0	DINT
Aeration Blower 2 Discharge Temperature High		
TAH3201B.AlarmCountResetDate	0	DINT
Aeration Blower 2 Discharge Temperature High		

TAH3201B (Continued)			
Aeration Blower 2 Discharge Temperature High			
TAH3201B.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Discharge Temperature High			
TSH3201	0	BOOL	PLC_SH
Aeration Blower 2 High Temperature Switch			
Constant	No		
External Access:	Read/Write		
<i>TSH3201 - MainProgram/L3201_AerationBlower2_VFD - 15(XIC), 16(XIC)</i>			
YA3201		ALRM	PLC_SH
Aeration Blower 2 Fail			
Constant	No		
External Access:	Read/Write		
<i>YA3201 - MainProgram/L3201_AerationBlower2_VFD - *8(ALRM)</i>			
YA3201.EnableIn	0	BOOL	
Aeration Blower 2 Fail Enable Input - System Defined Parameter			
YA3201.EnableOut	0	BOOL	
Aeration Blower 2 Fail Enable Output - System Defined Parameter			
YA3201.Latched	0	BOOL	
Aeration Blower 2 Fail			
YA3201.OperReset	0	BOOL	
Aeration Blower 2 Fail			
<i>YA3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
YA3201.ProgReset	0	BOOL	
Aeration Blower 2 Fail			
YA3201.OperDisable	0	BOOL	
Aeration Blower 2 Fail			
YA3201.OperEnable	0	BOOL	
Aeration Blower 2 Fail			
YA3201.AlarmCountReset	0	BOOL	
Aeration Blower 2 Fail Set to 1 to reset alarm count			
YA3201.InAlarm	0	BOOL	
Aeration Blower 2 Fail			
<i>YA3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>			
YA3201.Disabled	0	BOOL	
Aeration Blower 2 Fail			
YA3201.MinDurationPRE	0	DINT	
Aeration Blower 2 Fail			
YA3201.MinDurationACC	0	DINT	
Aeration Blower 2 Fail			
YA3201.AlarmCount	0	DINT	
Aeration Blower 2 Fail			
YA3201.InAlarmDate	0	DINT	
Aeration Blower 2 Fail			
YA3201.InAlarmTime	0	DINT	
Aeration Blower 2 Fail			
YA3201.RefToNormalDate	0	DINT	
Aeration Blower 2 Fail			
YA3201.RefToNormalTime	0	DINT	
Aeration Blower 2 Fail			
YA3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 Fail			
YA3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 Fail			
YI3201	0	BOOL	PLC_SH
Aeration Blower 2 Running			
Constant	No		
External Access:	Read/Write		
<i>YI3201 - MainProgram/L3103_AerBlower_Pressure - 2(XIC), 3(XIC)</i>			
<i>YI3201 - MainProgram/L3201_AerationBlower2_VFD - *1(OTE), 22(XIC), 6(XIO), 7(XIC)</i>			

YL3201	0	BOOL	PLC_SH
Aeration Blower 2 Ready			
Constant	No		
External Access:	Read/Write		
<i>YL3201 - MainProgram/L3201_AerationBlower2_VFD - *18(OTE), 21(XIC)</i>			
YS3201	0	BOOL	PLC_SH
Aeration Blower 2 Fail Switch			
Constant	No		
External Access:	Read/Write		
<i>YS3201 - MainProgram/L3201_AerationBlower2_VFD - *2(OTE), 8(XIC)</i>			
YY3201	0	DINT	PLC_SH
Aeration Blower 2 Intermux			
Constant	No		
External Access:	Read/Write		
<i>YY3201 - MainProgram/L3201_AerationBlower2_VFD - *19(CLR), 21(EQU)</i>			
YY3201.0	0	BOOL	
Aeration Blower 2 Intermux			
<i>YY3201.0 - MainProgram/L3201_AerationBlower2_VFD - *19(OTE)</i>			
YY3201.1	0	BOOL	
Aeration Blower 2 Intermux			
<i>YY3201.1 - MainProgram/L3201_AerationBlower2_VFD - *19(OTE)</i>			
ZA3201		ALRM	PLC_SH
Aeration Blower 2 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZA3201 - MainProgram/L3201_AerationBlower2_VFD - *9(ALRM)</i>			
ZA3201.EnableIn	0	BOOL	
Aeration Blower 2 E-Stop Enable Input - System Defined Parameter			
ZA3201.EnableOut	0	BOOL	
Aeration Blower 2 E-Stop Enable Output - System Defined Parameter			
ZA3201.Latched	0	BOOL	
Aeration Blower 2 E-Stop			
ZA3201.OperReset	0	BOOL	
Aeration Blower 2 E-Stop			
<i>ZA3201.OperReset - MainProgram/L3201_AerationBlower2_VFD - *17(OTL)</i>			
ZA3201.ProgReset	0	BOOL	
Aeration Blower 2 E-Stop			
ZA3201.OperDisable	0	BOOL	
Aeration Blower 2 E-Stop			
ZA3201.OperEnable	0	BOOL	
Aeration Blower 2 E-Stop			
ZA3201.AlarmCountReset	0	BOOL	
Aeration Blower 2 E-Stop Set to 1 to reset alarm count			
ZA3201.InAlarm	0	BOOL	
Aeration Blower 2 E-Stop			
<i>ZA3201.InAlarm - MainProgram/L3201_AerationBlower2_VFD - 18(XIO)</i>			
ZA3201.Disabled	0	BOOL	
Aeration Blower 2 E-Stop			
ZA3201.MinDurationPRE	0	DINT	
Aeration Blower 2 E-Stop			
ZA3201.MinDurationACC	0	DINT	
Aeration Blower 2 E-Stop			
ZA3201.AlarmCount	0	DINT	
Aeration Blower 2 E-Stop			
ZA3201.InAlarmDate	0	DINT	
Aeration Blower 2 E-Stop			
ZA3201.InAlarmTime	0	DINT	
Aeration Blower 2 E-Stop			
ZA3201.RetToNormalDate	0	DINT	
Aeration Blower 2 E-Stop			
ZA3201.RetToNormalTime	0	DINT	

ZA3201 (Continued)			
Aeration Blower 2 E-Stop			
ZA3201.AlarmCountResetDate	0	DINT	
Aeration Blower 2 E-Stop			
ZA3201.AlarmCountResetTime	0	DINT	
Aeration Blower 2 E-Stop			
ZI3201	0	BOOL	PLC_SH
Aeration Blower 2 In Remote			
Constant	No		
External Access:	Read/Write		
<i>ZI3201 - MainProgram/L3201_AerationBlower2_VFD - *0(O TE), 18(XIC), 7(XIC)</i>			
ZS3201	0	BOOL	PLC_SH
Aeration Blower 2 E-Stop			
Constant	No		
External Access:	Read/Write		
<i>ZS3201 - MainProgram/L3201_AerationBlower2_VFD - 9(XIC)</i>			

General

Type:	 Ladder Diagram	Number of Rungs:	23
In Program:	 MainProgram		

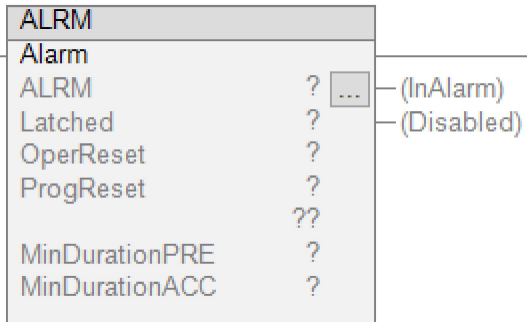
Signature Listing

ALRM v33.0 First Revision

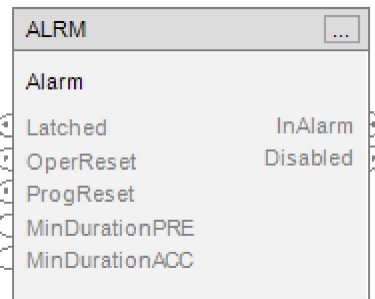
Alarm

Available Languages

Relay Ladder



Function Block



Structured Text

ALRM(ProgReset);

Parameters

Required	Name	Data Type	Usage	Description
X	ALRM	ALRM	InOut	Alarm
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
	Latched	BOOL	Input	
	OperReset	BOOL	Input	
X	ProgReset	BOOL	Input	
	OperDisable	BOOL	Input	
	OperEnable	BOOL	Input	
	AlarmCountReset	BOOL	Input	Set to 1 to reset alarm count
	InAlarm	BOOL	Output	
	Disabled	BOOL	Output	
	MinDurationPRE	DINT	Input	
	MinDurationACC	DINT	Input	
	AlarmCount	DINT	Output	
	InAlarmDate	DINT	Output	
	InAlarmTime	DINT	Output	
	RetToNormalDate	DINT	Output	
	RetToNormalTime	DINT	Output	
	AlarmCountResetDate	DINT	Output	
	AlarmCountResetTime	DINT	Output	

Extended Description

[Triggers an alarm with adjustable delays and optional latching]

EnableIn:
Follows the rung condition. Set if the rung condition is true. Cleared if the rung condition is false.

Latched:
Specifies whether the alarm is latched. Latched alarms remain InAlarm when the alarm condition becomes false, until a Reset command is received. When set, the alarm is latched. When cleared, the alarm is unlatched. A latched alarm can only be reset when the alarm condition is false.

ProgReset:
Set by the user program to reset the alarm. Requires a cleared-to-set transition while the alarm is InAlarm and the In condition is not in alarm.

OperReset:
Set by the operator interface to reset the alarm. Requires a cleared-to-set transition while the alarm is InAlarm and the In condition is not in alarm. The alarm instruction clears this parameter.

OperDisable:
Set by the operator interface to disable the alarm. The alarm instruction clears this parameter.

OperEnable:
Set by the operator interface to enable the alarm. Takes precedence over Disable command. The alarm instruction clears this parameter.

AlarmCountReset
Set by the user program to reset the alarm count. A cleared-to-set transition resets the alarm count to zero.

MinDurationPRE
Minimum duration preset (milliseconds) for the alarm condition to remain true before the alarm is marked as InAlarm and alarm notification is sent to clients.

InAlarm
Alarm active status. Set when the alarm is active. Cleared when the alarm is not active (normal status).

Disabled
Disabled status of the alarm. Set when the alarm is disabled. Cleared when the alarm is enabled.

MinDurationACC
Elapsed time since the alarm was detected. When this value reaches MinDurationPRE, the alarm becomes active (InAlarm is set)

AlarmCount
Number of times the alarm has been activated (InAlarm is set). If the the value of 2,000,000,000 is reached, the counter leaves the value at 2,000,000,000.

InAlarmDate
Date of alarm detection (format=DDMMYYYY).

InAlarmTime
Time of alarm detection (format=HHMMSS).

RetToNormalDate
Date of alarm returning to a normal state (format=DDMMYYYY).

RetToNormalTime
Time of alarm returning to a normal state (format=HHMMSS).

AlarmCountResetDate
Date indicating when the alarm count was reset (format=DDMMYYYY).

AlarmCountResetTime
Time indicating when the alarm count was reset (format=HHMMSS).

Execution

Condition	Description
EnableIn is false	
EnableIn is true	

Revision v33.0 First Revision Notes

.0 Implemented Control/Status Local tags to improve comms efficiency

Name	Default	Data Type	Scope
AlarmCount	0	DINT	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AlarmCount - ALRM/EnableInFalse - *12(ADD), *16(CLR), 12(ADD), 12(GRT), 12(LES)</i>			
<i>AlarmCount - ALRM/Logic - *15(ADD), *19(CLR), 15(ADD), 15(GRT), 15(LES)</i>			
AlarmCountReset	0	BOOL	ALRM
Set to 1 to reset alarm count			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AlarmCountReset - ALRM/EnableInFalse - *16(OTU), *8(OTL), 16(XIC)</i>			
<i>AlarmCountReset - ALRM/Logic - *19(OTU), *8(OTL), 19(XIC)</i>			
AlarmCountResetDate	0	DINT	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AlarmCountResetDate - ALRM/EnableInFalse - *16(CPT)</i>			
<i>AlarmCountResetDate - ALRM/Logic - *19(CPT)</i>			
AlarmCountResetTime	0	DINT	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AlarmCountResetTime - ALRM/EnableInFalse - *16(CPT)</i>			
<i>AlarmCountResetTime - ALRM/Logic - *19(CPT)</i>			
Disabled	0	BOOL	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Disabled - ALRM/EnableInFalse - *13(OTL), *14(OTU), 1(XIC), 11(XIC)</i>			
<i>Disabled - ALRM/Logic - *16(OTL), *17(OTU), 1(XIC), 13(XIO), 14(XIO)</i>			
EnableIn	1	BOOL	ALRM
Enable Input - System Defined Parameter			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>EnableIn - ALRM/EnableInFalse - 1(XIC)</i>			
<i>EnableIn - ALRM/Logic - 1(XIC)</i>			
InAlarm	0	BOOL	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>InAlarm - ALRM/EnableInFalse - *11(OTU), 1(XIC), 10(XIO), 12(XIC), 12(XIO)</i>			
<i>InAlarm - ALRM/Logic - *14(OTE), 1(XIC), 14(XIC), 15(XIC), 15(XIO)</i>			
InAlarmDate	0	DINT	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	No		

InAlarmDate (Continued)

External Access: Read/Write
*InAlarmDate - ALRM/EnableInFalse - *12(CPT)*
*InAlarmDate - ALRM/Logic - *15(CPT)*

InAlarmTime 0 DINT ALRM

Usage: Output Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*InAlarmTime - ALRM/EnableInFalse - *12(CPT)*
*InAlarmTime - ALRM/Logic - *15(CPT)*

Latched 0 BOOL ALRM

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
*Latched - ALRM/EnableInFalse - *5(OTL), *6(OTU), 1(XIC), 10(XIO), 11(XIO)*
*Latched - ALRM/Logic - *5(OTL), *6(OTU), 1(XIC), 14(XIC)*

MinDurationACC 0 DINT ALRM

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
MinDurationACC - ALRM/EnableInFalse - 1(MOV)
*MinDurationACC - ALRM/Logic - *11(MOV), *12(MOV), 1(MOV)*

MinDurationPRE 0 DINT ALRM

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
*MinDurationPRE - ALRM/EnableInFalse - *2(MOV), 1(MOV)*
*MinDurationPRE - ALRM/Logic - *2(MOV), 1(MOV), 10(MOV), 12(GRT), 12(MOV)*

OperDisable 0 BOOL ALRM

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*OperDisable - ALRM/EnableInFalse - *13(OTU), *3(OTL), 13(XIC)*
*OperDisable - ALRM/Logic - *16(OTU), *3(OTL), 16(XIC)*

OperEnable 0 BOOL ALRM

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*OperEnable - ALRM/EnableInFalse - *14(OTU), *4(OTL), 14(XIC)*
*OperEnable - ALRM/Logic - *17(OTU), *4(OTL), 17(XIC)*

OperReset 0 BOOL ALRM

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
*OperReset - ALRM/EnableInFalse - *15(OTU), *7(OTL), 10(XIC), 11(XIC), 15(XIC)*
*OperReset - ALRM/Logic - *18(OTU), *7(OTL), 14(XIO), 18(XIC)*

ProgReset 0 BOOL ALRM

Usage: Input Parameter

ProgReset (Continued)

Required: Yes
Visible: Yes
External Access: Read/Write
ProgReset - ALRM/EnableInFalse - 11(XIC)
ProgReset - ALRM/Logic - 14(XIO)

RetToNormalDate 0 DINT ALRM

Usage: Output Parameter
Required: No
Visible: No
External Access: Read/Write
*RetToNormalDate - ALRM/EnableInFalse - *12(CPT)*
*RetToNormalDate - ALRM/Logic - *15(CPT)*

RetToNormalTime 0 DINT ALRM

Usage: Output Parameter
Required: No
Visible: No
External Access: Read/Write
*RetToNormalTime - ALRM/EnableInFalse - *12(CPT)*
*RetToNormalTime - ALRM/Logic - *15(CPT)*

Name	Default	Data Type	Scope
AlarmTimer		TIMER	ALRM
Usage:	Local Tag		
External Access:	None		
<i>AlarmTimer - ALRM/EnableInFalse - *10(RES)</i>			
<i>AlarmTimer - ALRM/Logic - *13(TON)</i>			
AlarmTimer.PRE	0	DINT	
<i>AlarmTimer.PRE - ALRM/Logic - *10(MOV)</i>			
AlarmTimer.ACC	0	DINT	
<i>AlarmTimer.ACC - ALRM/Logic - 11(MOV), 12(GRT)</i>			
AlarmTimer.TT	0	BOOL	
<i>AlarmTimer.TT - ALRM/Logic - 11(XIC)</i>			
AlarmTimer.DN	0	BOOL	
<i>AlarmTimer.DN - ALRM/Logic - 12(XIC), 14(XIC)</i>			
Clock		DINT[7]	ALRM
Usage:	Local Tag		
External Access:	None		
Clock[0]	0	DINT	
<i>Clock[0] - ALRM/EnableInFalse - *9(GSV), 12(CPT), 16(CPT)</i>			
<i>Clock[0] - ALRM/Logic - *9(GSV), 15(CPT), 19(CPT)</i>			
Clock[1]	0	DINT	
<i>Clock[1] - ALRM/EnableInFalse - 12(CPT), 16(CPT)</i>			
<i>Clock[1] - ALRM/Logic - 15(CPT), 19(CPT)</i>			
Clock[2]	0	DINT	
<i>Clock[2] - ALRM/EnableInFalse - 12(CPT), 16(CPT)</i>			
<i>Clock[2] - ALRM/Logic - 15(CPT), 19(CPT)</i>			
Clock[3]	0	DINT	
<i>Clock[3] - ALRM/EnableInFalse - 12(CPT), 16(CPT)</i>			
<i>Clock[3] - ALRM/Logic - 15(CPT), 19(CPT)</i>			
Clock[4]	0	DINT	
<i>Clock[4] - ALRM/EnableInFalse - 12(CPT), 16(CPT)</i>			
<i>Clock[4] - ALRM/Logic - 15(CPT), 19(CPT)</i>			
Clock[5]	0	DINT	
<i>Clock[5] - ALRM/EnableInFalse - 12(CPT), 16(CPT)</i>			
<i>Clock[5] - ALRM/Logic - 15(CPT), 19(CPT)</i>			
Control		ALRM_Control	ALRM
Usage:	Local Tag		
External Access:	Read/Write		
Control.OperLatch	0	BOOL	
<i>Control.OperLatch - ALRM/EnableInFalse - *0(OTU), *5(OTU), 5(XIC)</i>			
<i>Control.OperLatch - ALRM/Logic - *0(OTU), *5(OTU), 5(XIC)</i>			
Control.OperUnlatch	0	BOOL	
<i>Control.OperUnlatch - ALRM/EnableInFalse - *0(OTU), *6(OTU), 6(XIC)</i>			
<i>Control.OperUnlatch - ALRM/Logic - *0(OTU), *6(OTU), 6(XIC)</i>			
Control.OperEnable	0	BOOL	
<i>Control.OperEnable - ALRM/EnableInFalse - *0(OTU), *4(OTU), 4(XIC)</i>			
<i>Control.OperEnable - ALRM/Logic - *0(OTU), *4(OTU), 4(XIC)</i>			
Control.OperDisable	0	BOOL	
<i>Control.OperDisable - ALRM/EnableInFalse - *0(OTU), *3(OTU), 3(XIC)</i>			
<i>Control.OperDisable - ALRM/Logic - *0(OTU), *3(OTU), 3(XIC)</i>			
Control.OperReset	0	BOOL	
<i>Control.OperReset - ALRM/EnableInFalse - *0(OTU), *7(OTU), 7(XIC)</i>			
<i>Control.OperReset - ALRM/Logic - *0(OTU), *7(OTU), 7(XIC)</i>			
Control.AlarmCountReset	0	BOOL	
<i>Control.AlarmCountReset - ALRM/EnableInFalse - *0(OTU), *8(OTU), 8(XIC)</i>			
<i>Control.AlarmCountReset - ALRM/Logic - *0(OTU), *8(OTU), 8(XIC)</i>			
Control.MinDurationPRE	0	DINT	
<i>Control.MinDurationPRE - ALRM/EnableInFalse - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
<i>Control.MinDurationPRE - ALRM/Logic - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
FS_ONS	0	BOOL	ALRM

FS_ONS (Continued)

Usage: Local Tag
 External Access: None
*FS_ONS - ALRM/EnableInFalse - *0(ONS)*
*FS_ONS - ALRM/Logic - *0(ONS)*

OS_0 0 BOOL ALRM

Usage: Local Tag
 External Access: None
*OS_0 - ALRM/EnableInFalse - *0(OTU)*
*OS_0 - ALRM/Logic - *0(OTU)*

OS_1 0 BOOL ALRM

Usage: Local Tag
 External Access: None
*OS_1 - ALRM/EnableInFalse - *0(OTU), *11(ONS)*
*OS_1 - ALRM/Logic - *0(OTU)*

OS_2 0 BOOL ALRM

Usage: Local Tag
 External Access: None
*OS_2 - ALRM/EnableInFalse - *0(OTU), *12(ONS)*
*OS_2 - ALRM/Logic - *0(OTU), *15(ONS)*

OS_3 0 BOOL ALRM

Usage: Local Tag
 External Access: None
*OS_3 - ALRM/EnableInFalse - *0(OTU), *12(ONS)*
*OS_3 - ALRM/Logic - *0(OTU), *15(ONS)*

Status ALRM_Status ALRM

Usage: Local Tag
 External Access: Read/Write

Status.EnableIn 0 BOOL

*Status.EnableIn - ALRM/EnableInFalse - *1(OTE)*
*Status.EnableIn - ALRM/Logic - *1(OTE)*

Status.Latched 0 BOOL

*Status.Latched - ALRM/EnableInFalse - *1(OTE)*
*Status.Latched - ALRM/Logic - *1(OTE)*

Status.InAlarm 0 BOOL

*Status.InAlarm - ALRM/EnableInFalse - *1(OTE)*
*Status.InAlarm - ALRM/Logic - *1(OTE)*

Status.Disabled 0 BOOL

*Status.Disabled - ALRM/EnableInFalse - *1(OTE)*
*Status.Disabled - ALRM/Logic - *1(OTE)*

Status.MinDurationPRE 0 DINT

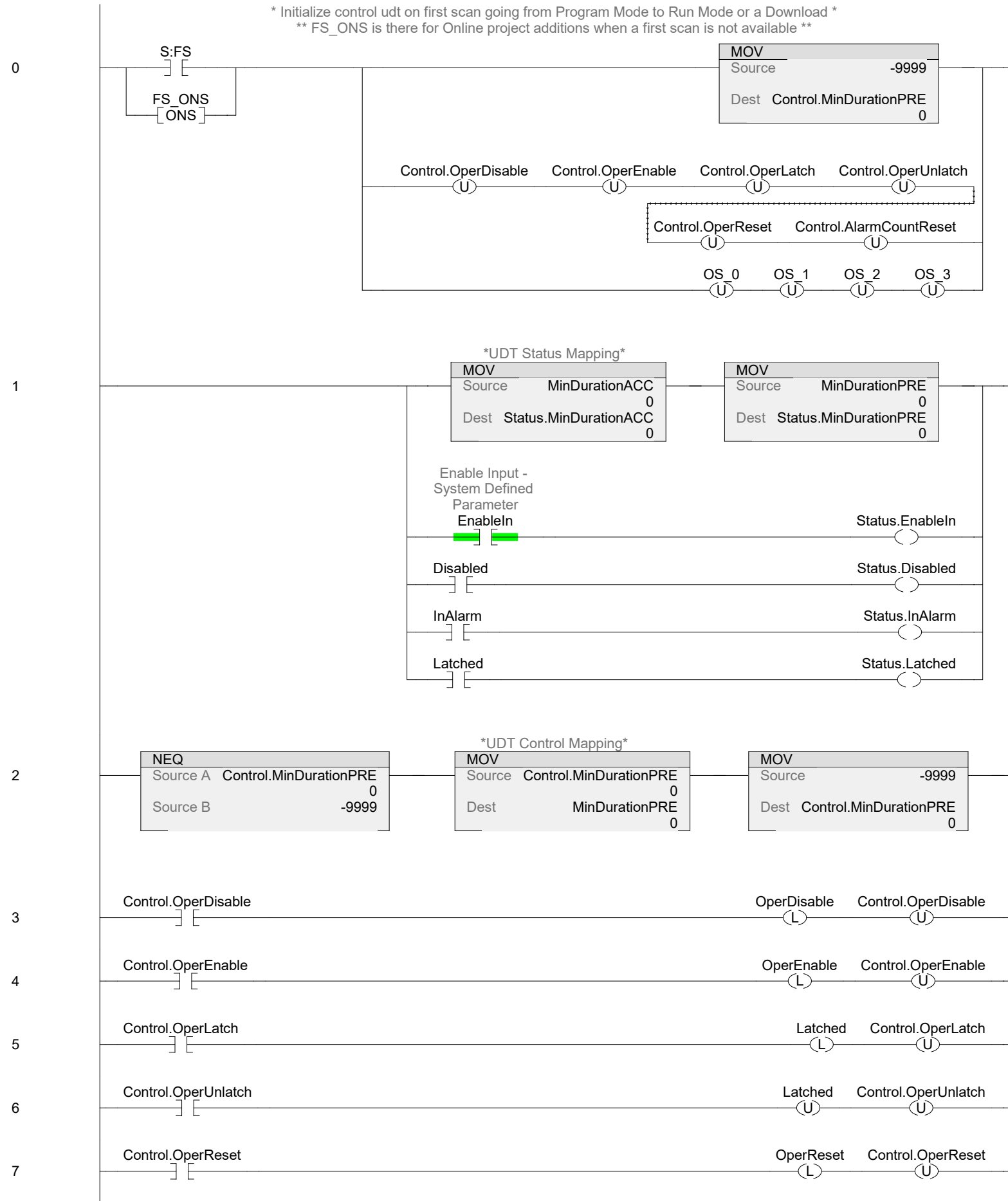
*Status.MinDurationPRE - ALRM/EnableInFalse - *1(MOV)*
*Status.MinDurationPRE - ALRM/Logic - *1(MOV)*

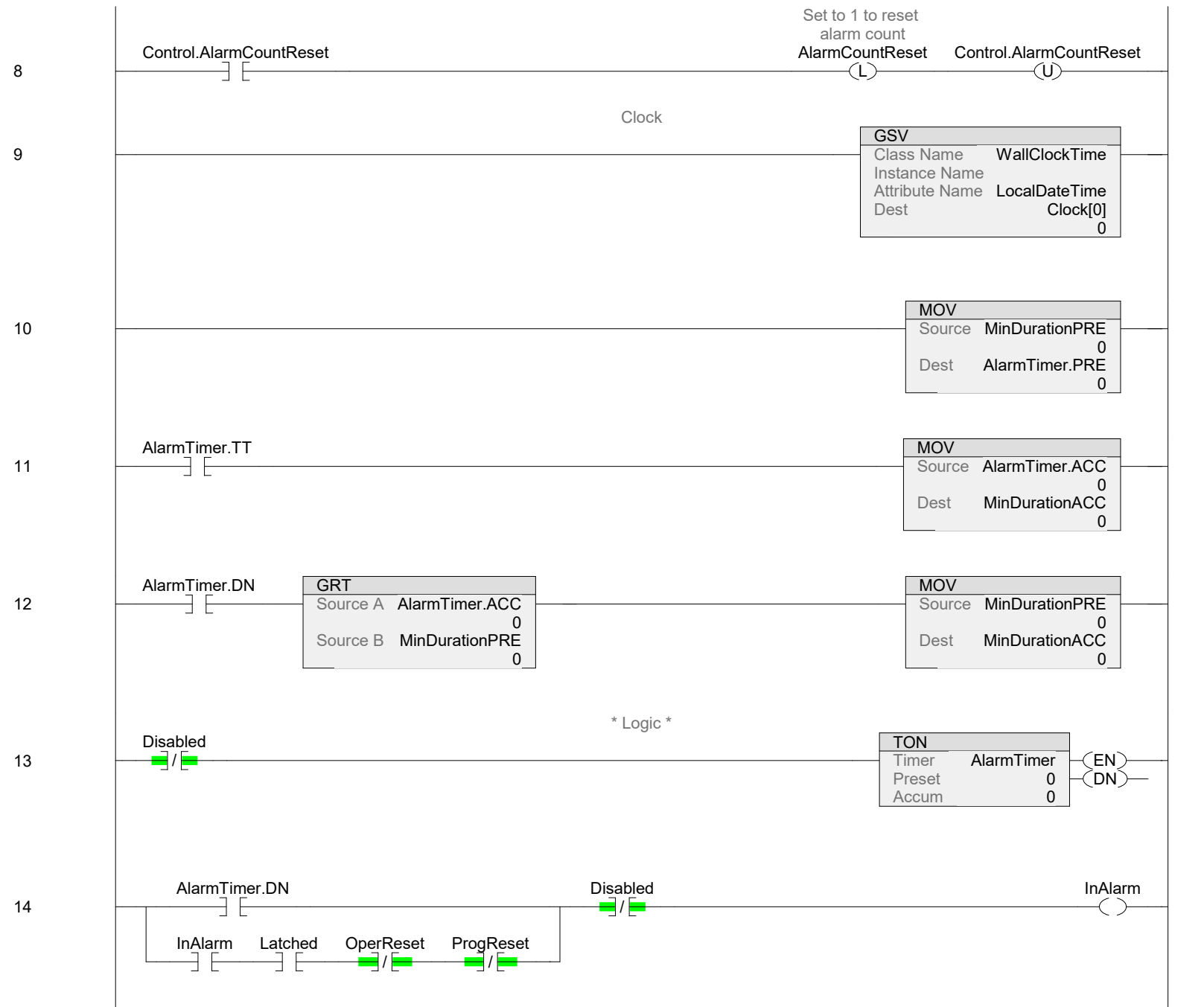
Status.MinDurationACC 0 DINT

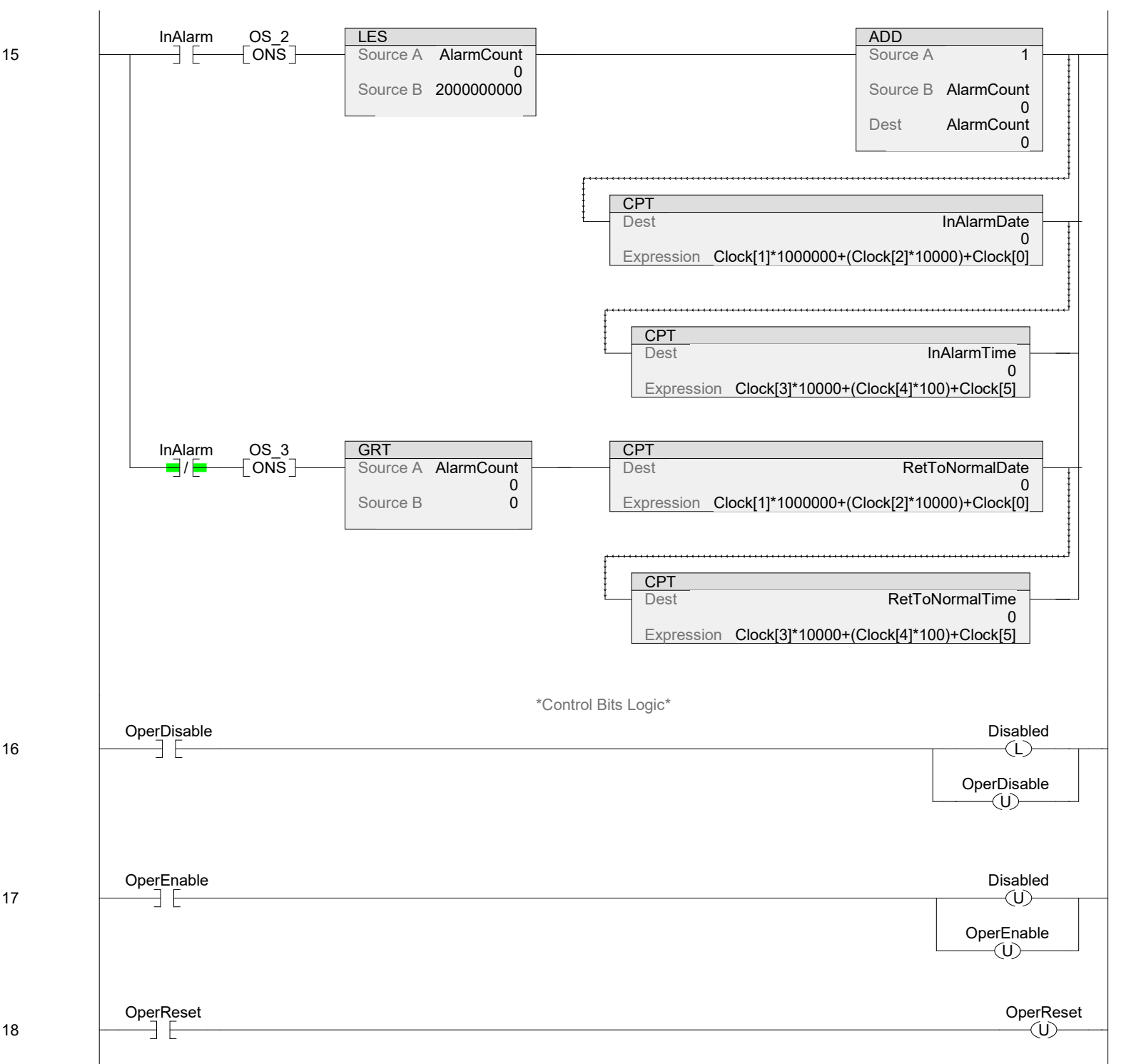
*Status.MinDurationACC - ALRM/EnableInFalse - *1(MOV)*
*Status.MinDurationACC - ALRM/Logic - *1(MOV)*

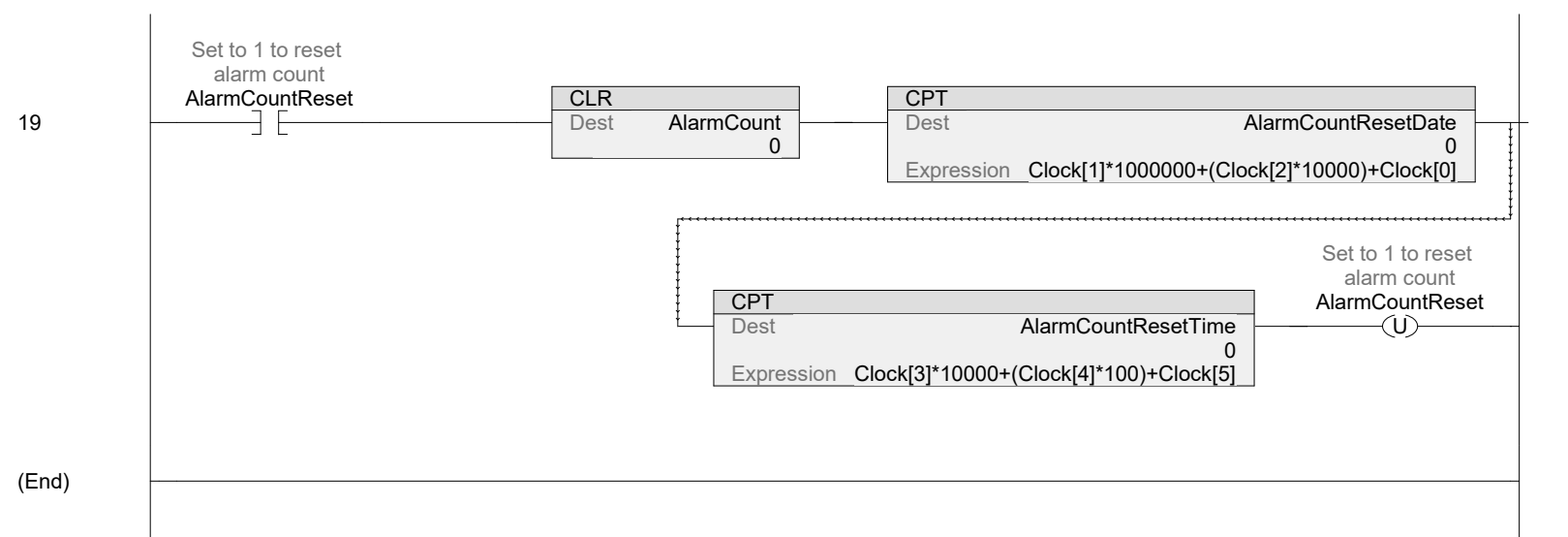
* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *

** FS_ONS is there for Online project additions when a first scan is not available **



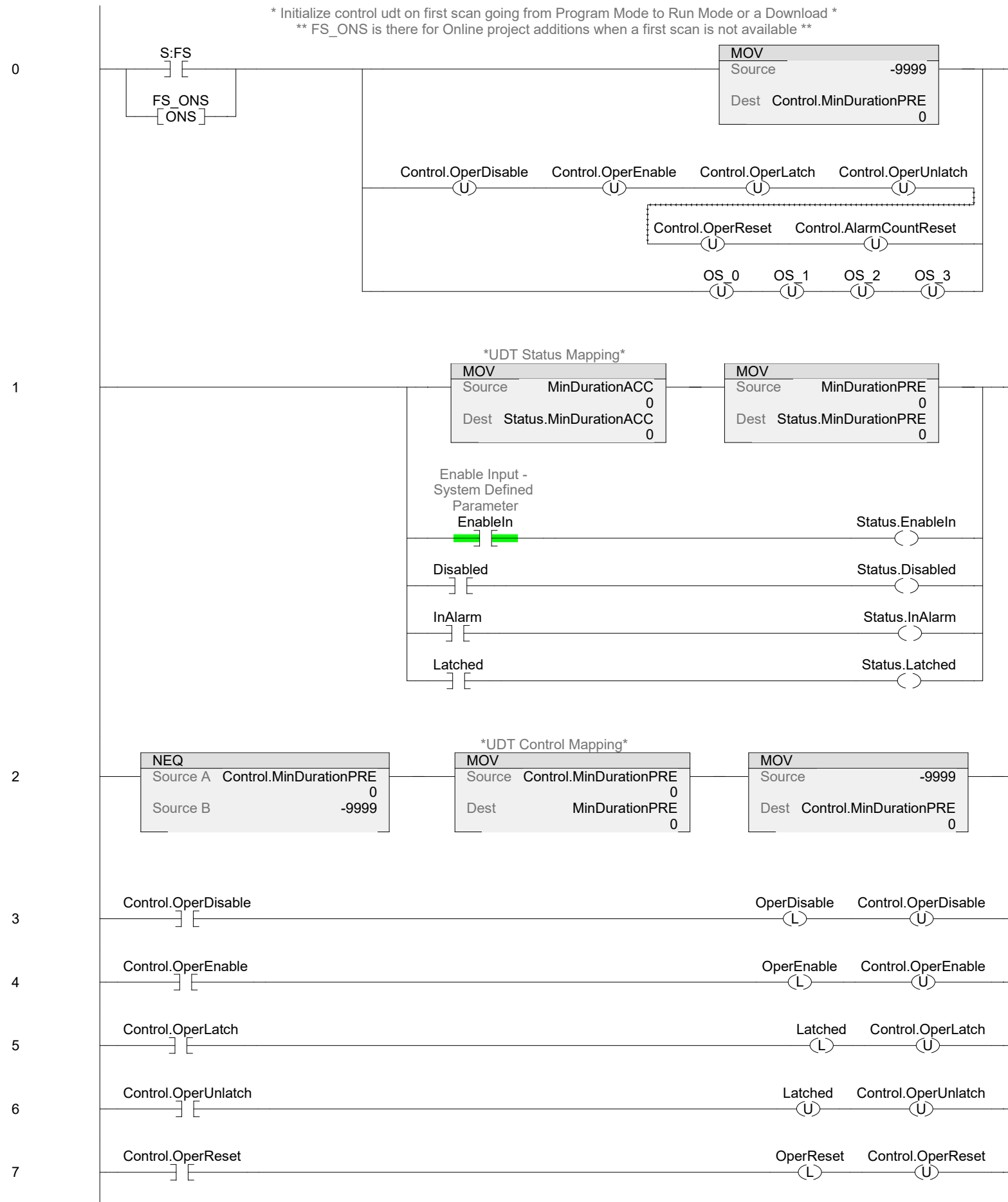


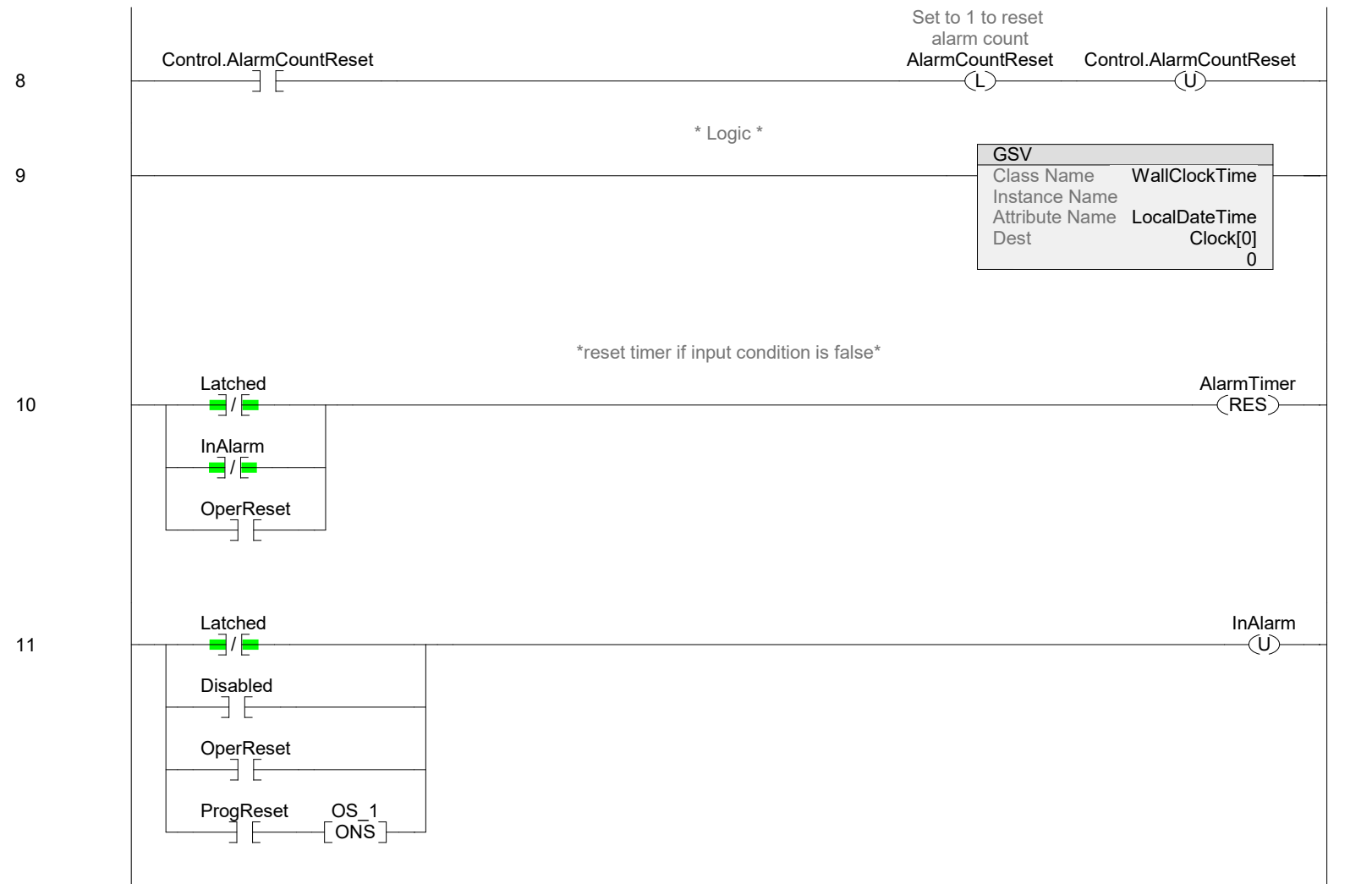


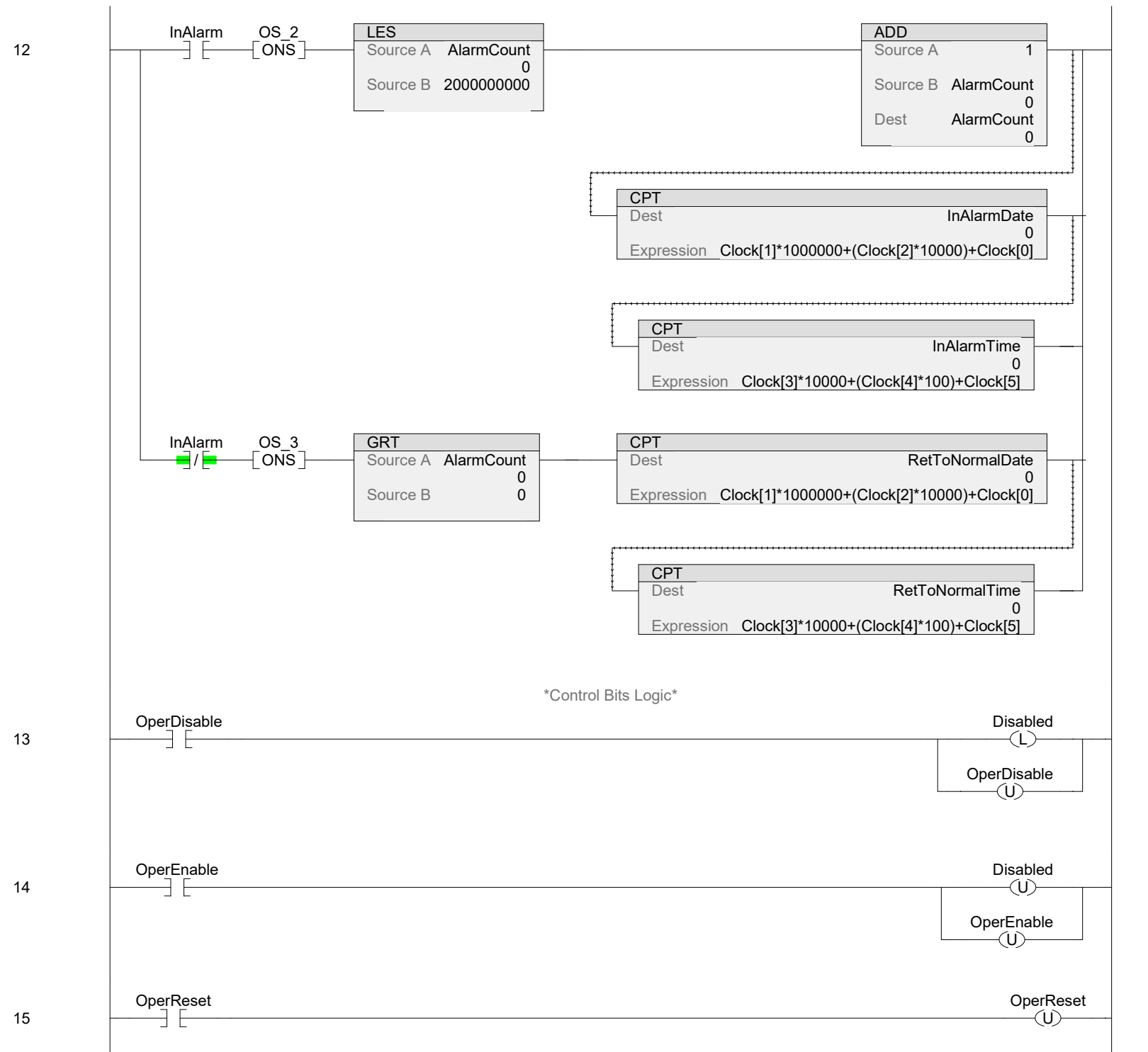


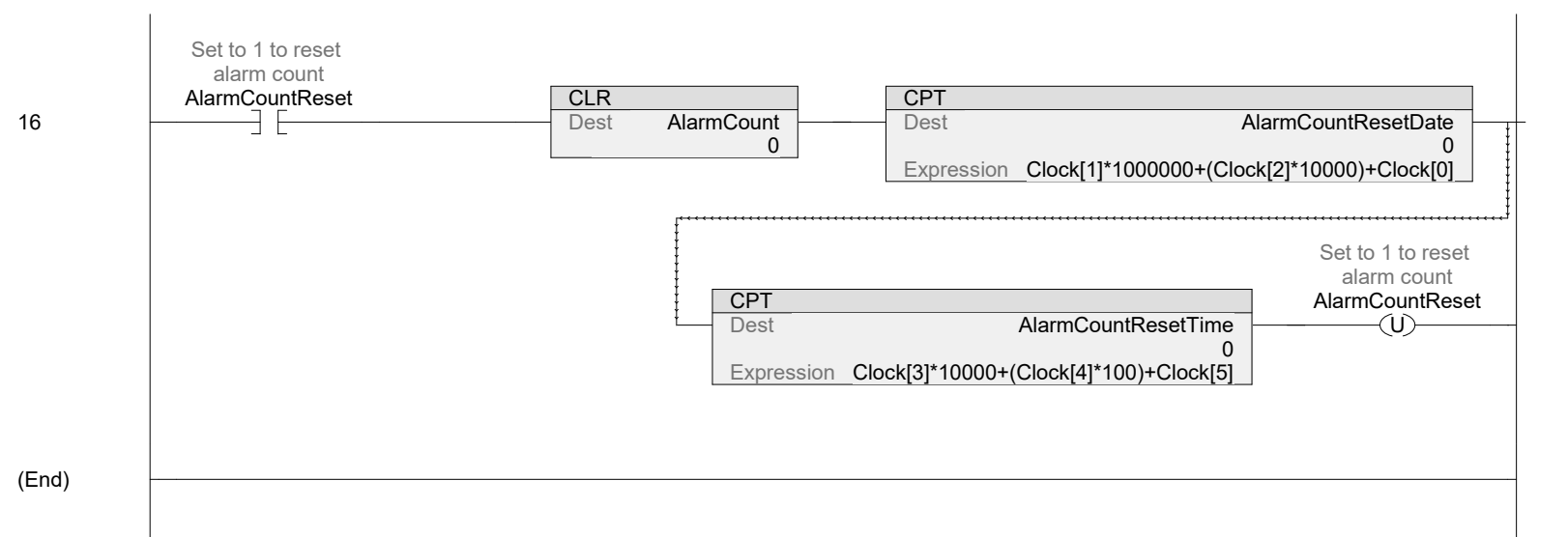
* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *

** FS_ONS is there for Online project additions when a first scan is not available **







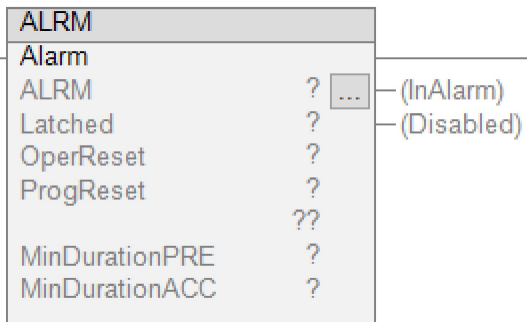


ALRM v33.0 First Revision

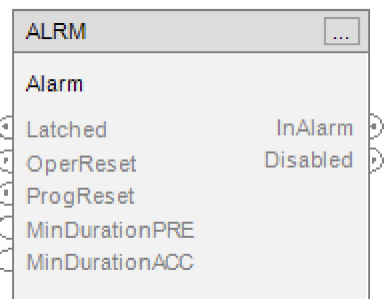
Alarm

Available Languages

Relay Ladder



Function Block



Structured Text

ALRM(ProgReset);

Parameters

Required	Name	Data Type	Usage	Description
X	ALRM	ALRM	InOut	Alarm
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
	Latched	BOOL	Input	
	OperReset	BOOL	Input	
X	ProgReset	BOOL	Input	
	OperDisable	BOOL	Input	
	OperEnable	BOOL	Input	
	AlarmCountReset	BOOL	Input	Set to 1 to reset alarm count
	InAlarm	BOOL	Output	
	Disabled	BOOL	Output	
	MinDurationPRE	DINT	Input	
	MinDurationACC	DINT	Input	
	AlarmCount	DINT	Output	
	InAlarmDate	DINT	Output	
	InAlarmTime	DINT	Output	
	RetToNormalDate	DINT	Output	
	RetToNormalTime	DINT	Output	
	AlarmCountResetDate	DINT	Output	
	AlarmCountResetTime	DINT	Output	

Extended Description

[Triggers an alarm with adjustable delays and optional latching]

EnableIn:
Follows the rung condition. Set if the rung condition is true. Cleared if the rung condition is false.

Latched:
Specifies whether the alarm is latched. Latched alarms remain InAlarm when the alarm condition becomes false, until a Reset command is received. When set, the alarm is latched. When cleared, the alarm is unlatched. A latched alarm can only be reset when the alarm condition is false.

ProgReset:
Set by the user program to reset the alarm. Requires a cleared-to-set transition while the alarm is InAlarm and the In condition is not in alarm.

OperReset:
Set by the operator interface to reset the alarm. Requires a cleared-to-set transition while the alarm is InAlarm and the In condition is not in alarm. The alarm instruction clears this parameter.

OperDisable:
Set by the operator interface to disable the alarm. The alarm instruction clears this parameter.

OperEnable:
Set by the operator interface to enable the alarm. Takes precedence over Disable command. The alarm instruction clears this parameter.

AlarmCountReset
Set by the user program to reset the alarm count. A cleared-to-set transition resets the alarm count to zero.

MinDurationPRE
Minimum duration preset (milliseconds) for the alarm condition to remain true before the alarm is marked as InAlarm and alarm notification is sent to clients.

InAlarm
Alarm active status. Set when the alarm is active. Cleared when the alarm is not active (normal status).

Disabled
Disabled status of the alarm. Set when the alarm is disabled. Cleared when the alarm is enabled.

MinDurationACC
Elapsed time since the alarm was detected. When this value reaches MinDurationPRE, the alarm becomes active (InAlarm is set)

AlarmCount
Number of times the alarm has been activated (InAlarm is set). If the the value of 2,000,000,000 is reached, the counter leaves the value at 2,000,000,000.

InAlarmDate
Date of alarm detection (format=DDMMYYYY).

InAlarmTime
Time of alarm detection (format=HHMMSS).

RetToNormalDate
Date of alarm returning to a normal state (format=DDMMYYYY).

RetToNormalTime
Time of alarm returning to a normal state (format=HHMMSS).

AlarmCountResetDate
Date indicating when the alarm count was reset (format=DDMMYYYY).

AlarmCountResetTime
Time indicating when the alarm count was reset (format=HHMMSS).

Execution

Condition	Description
-----------	-------------

EnableIn is false	
-------------------	--

EnableIn is true	
------------------	--

Revision v33.0 First Revision Notes

.0 Implemented Control/Status Local tags to improve comms efficiency

Name	Default	Data Type	Scope
AlarmCount	0	DINT	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AlarmCount - ALRM/EnableInFalse - *12(ADD), *16(CLR), 12(ADD), 12(GRT), 12(LES)</i>			
<i>AlarmCount - ALRM/Logic - *15(ADD), *19(CLR), 15(ADD), 15(GRT), 15(LES)</i>			
AlarmCountReset	0	BOOL	ALRM
Set to 1 to reset alarm count			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AlarmCountReset - ALRM/EnableInFalse - *16(OTU), *8(OTL), 16(XIC)</i>			
<i>AlarmCountReset - ALRM/Logic - *19(OTU), *8(OTL), 19(XIC)</i>			
AlarmCountResetDate	0	DINT	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AlarmCountResetDate - ALRM/EnableInFalse - *16(CPT)</i>			
<i>AlarmCountResetDate - ALRM/Logic - *19(CPT)</i>			
AlarmCountResetTime	0	DINT	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AlarmCountResetTime - ALRM/EnableInFalse - *16(CPT)</i>			
<i>AlarmCountResetTime - ALRM/Logic - *19(CPT)</i>			
Disabled	0	BOOL	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Disabled - ALRM/EnableInFalse - *13(OTL), *14(OTU), 1(XIC), 11(XIC)</i>			
<i>Disabled - ALRM/Logic - *16(OTL), *17(OTU), 1(XIC), 13(XIO), 14(XIO)</i>			
EnableIn	1	BOOL	ALRM
Enable Input - System Defined Parameter			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>EnableIn - ALRM/EnableInFalse - 1(XIC)</i>			
<i>EnableIn - ALRM/Logic - 1(XIC)</i>			
InAlarm	0	BOOL	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>InAlarm - ALRM/EnableInFalse - *11(OTU), 1(XIC), 10(XIO), 12(XIC), 12(XIO)</i>			
<i>InAlarm - ALRM/Logic - *14(OTE), 1(XIC), 14(XIC), 15(XIC), 15(XIO)</i>			
InAlarmDate	0	DINT	ALRM
Usage:	Output Parameter		
Required:	No		
Visible:	No		

InAlarmDate (Continued)

External Access: Read/Write
*InAlarmDate - ALRM/EnableInFalse - *12(CPT)*
*InAlarmDate - ALRM/Logic - *15(CPT)*

InAlarmTime 0 DINT ALRM

Usage: Output Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*InAlarmTime - ALRM/EnableInFalse - *12(CPT)*
*InAlarmTime - ALRM/Logic - *15(CPT)*

Latched 0 BOOL ALRM

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
*Latched - ALRM/EnableInFalse - *5(OTL), *6(OTU), 1(XIC), 10(XIO), 11(XIO)*
*Latched - ALRM/Logic - *5(OTL), *6(OTU), 1(XIC), 14(XIC)*

MinDurationACC 0 DINT ALRM

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
MinDurationACC - ALRM/EnableInFalse - 1(MOV)
*MinDurationACC - ALRM/Logic - *11(MOV), *12(MOV), 1(MOV)*

MinDurationPRE 0 DINT ALRM

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
*MinDurationPRE - ALRM/EnableInFalse - *2(MOV), 1(MOV)*
*MinDurationPRE - ALRM/Logic - *2(MOV), 1(MOV), 10(MOV), 12(GRT), 12(MOV)*

OperDisable 0 BOOL ALRM

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*OperDisable - ALRM/EnableInFalse - *13(OTU), *3(OTL), 13(XIC)*
*OperDisable - ALRM/Logic - *16(OTU), *3(OTL), 16(XIC)*

OperEnable 0 BOOL ALRM

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*OperEnable - ALRM/EnableInFalse - *14(OTU), *4(OTL), 14(XIC)*
*OperEnable - ALRM/Logic - *17(OTU), *4(OTL), 17(XIC)*

OperReset 0 BOOL ALRM

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
*OperReset - ALRM/EnableInFalse - *15(OTU), *7(OTL), 10(XIC), 11(XIC), 15(XIC)*
*OperReset - ALRM/Logic - *18(OTU), *7(OTL), 14(XIO), 18(XIC)*

ProgReset 0 BOOL ALRM

Usage: Input Parameter

ProgReset (Continued)

Required: Yes
 Visible: Yes
 External Access: Read/Write
ProgReset - ALRM/EnableInFalse - 11(XIC)
ProgReset - ALRM/Logic - 14(XIO)

RetToNormalDate 0 DINT ALRM

Usage: Output Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*RetToNormalDate - ALRM/EnableInFalse - *12(CPT)*
*RetToNormalDate - ALRM/Logic - *15(CPT)*

RetToNormalTime 0 DINT ALRM

Usage: Output Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*RetToNormalTime - ALRM/EnableInFalse - *12(CPT)*
*RetToNormalTime - ALRM/Logic - *15(CPT)*

Name	Default	Data Type	Scope
AlarmTimer		TIMER	ALRM
Usage:	Local Tag		
External Access:	None		
<i>AlarmTimer - ALRM/EnableInFalse - *10(RES)</i>			
<i>AlarmTimer - ALRM/Logic - *13(TON)</i>			
AlarmTimer.PRE	0	DINT	
<i>AlarmTimer.PRE - ALRM/Logic - *10(MOV)</i>			
AlarmTimer.ACC	0	DINT	
<i>AlarmTimer.ACC - ALRM/Logic - 11(MOV), 12(GRT)</i>			
AlarmTimer.TT	0	BOOL	
<i>AlarmTimer.TT - ALRM/Logic - 11(XIC)</i>			
AlarmTimer.DN	0	BOOL	
<i>AlarmTimer.DN - ALRM/Logic - 12(XIC), 14(XIC)</i>			
Clock		DINT[7]	ALRM
Usage:	Local Tag		
External Access:	None		
Clock[0]	0	DINT	
<i>Clock[0] - ALRM/EnableInFalse - *9(GSV), 12(CPT), 16(CPT)</i>			
<i>Clock[0] - ALRM/Logic - *9(GSV), 15(CPT), 19(CPT)</i>			
Clock[1]	0	DINT	
<i>Clock[1] - ALRM/EnableInFalse - 12(CPT), 16(CPT)</i>			
<i>Clock[1] - ALRM/Logic - 15(CPT), 19(CPT)</i>			
Clock[2]	0	DINT	
<i>Clock[2] - ALRM/EnableInFalse - 12(CPT), 16(CPT)</i>			
<i>Clock[2] - ALRM/Logic - 15(CPT), 19(CPT)</i>			
Clock[3]	0	DINT	
<i>Clock[3] - ALRM/EnableInFalse - 12(CPT), 16(CPT)</i>			
<i>Clock[3] - ALRM/Logic - 15(CPT), 19(CPT)</i>			
Clock[4]	0	DINT	
<i>Clock[4] - ALRM/EnableInFalse - 12(CPT), 16(CPT)</i>			
<i>Clock[4] - ALRM/Logic - 15(CPT), 19(CPT)</i>			
Clock[5]	0	DINT	
<i>Clock[5] - ALRM/EnableInFalse - 12(CPT), 16(CPT)</i>			
<i>Clock[5] - ALRM/Logic - 15(CPT), 19(CPT)</i>			
Control		ALRM_Control	ALRM
Usage:	Local Tag		
External Access:	Read/Write		
Control.OperLatch	0	BOOL	
<i>Control.OperLatch - ALRM/EnableInFalse - *0(OTU), *5(OTU), 5(XIC)</i>			
<i>Control.OperLatch - ALRM/Logic - *0(OTU), *5(OTU), 5(XIC)</i>			
Control.OperUnlatch	0	BOOL	
<i>Control.OperUnlatch - ALRM/EnableInFalse - *0(OTU), *6(OTU), 6(XIC)</i>			
<i>Control.OperUnlatch - ALRM/Logic - *0(OTU), *6(OTU), 6(XIC)</i>			
Control.OperEnable	0	BOOL	
<i>Control.OperEnable - ALRM/EnableInFalse - *0(OTU), *4(OTU), 4(XIC)</i>			
<i>Control.OperEnable - ALRM/Logic - *0(OTU), *4(OTU), 4(XIC)</i>			
Control.OperDisable	0	BOOL	
<i>Control.OperDisable - ALRM/EnableInFalse - *0(OTU), *3(OTU), 3(XIC)</i>			
<i>Control.OperDisable - ALRM/Logic - *0(OTU), *3(OTU), 3(XIC)</i>			
Control.OperReset	0	BOOL	
<i>Control.OperReset - ALRM/EnableInFalse - *0(OTU), *7(OTU), 7(XIC)</i>			
<i>Control.OperReset - ALRM/Logic - *0(OTU), *7(OTU), 7(XIC)</i>			
Control.AlarmCountReset	0	BOOL	
<i>Control.AlarmCountReset - ALRM/EnableInFalse - *0(OTU), *8(OTU), 8(XIC)</i>			
<i>Control.AlarmCountReset - ALRM/Logic - *0(OTU), *8(OTU), 8(XIC)</i>			
Control.MinDurationPRE	0	DINT	
<i>Control.MinDurationPRE - ALRM/EnableInFalse - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
<i>Control.MinDurationPRE - ALRM/Logic - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
FS_ONS	0	BOOL	ALRM

FS_ONS (Continued)

Usage: Local Tag
 External Access: None
*FS_ONS - ALRM/EnableInFalse - *0(ONS)*
*FS_ONS - ALRM/Logic - *0(ONS)*

OS_0 0 BOOL ALRM

Usage: Local Tag
 External Access: None
*OS_0 - ALRM/EnableInFalse - *0(OTU)*
*OS_0 - ALRM/Logic - *0(OTU)*

OS_1 0 BOOL ALRM

Usage: Local Tag
 External Access: None
*OS_1 - ALRM/EnableInFalse - *0(OTU), *11(ONS)*
*OS_1 - ALRM/Logic - *0(OTU)*

OS_2 0 BOOL ALRM

Usage: Local Tag
 External Access: None
*OS_2 - ALRM/EnableInFalse - *0(OTU), *12(ONS)*
*OS_2 - ALRM/Logic - *0(OTU), *15(ONS)*

OS_3 0 BOOL ALRM

Usage: Local Tag
 External Access: None
*OS_3 - ALRM/EnableInFalse - *0(OTU), *12(ONS)*
*OS_3 - ALRM/Logic - *0(OTU), *15(ONS)*

Status ALRM_Status ALRM

Usage: Local Tag
 External Access: Read/Write

Status.EnableIn 0 BOOL

*Status.EnableIn - ALRM/EnableInFalse - *1(OTE)*
*Status.EnableIn - ALRM/Logic - *1(OTE)*

Status.Latched 0 BOOL

*Status.Latched - ALRM/EnableInFalse - *1(OTE)*
*Status.Latched - ALRM/Logic - *1(OTE)*

Status.InAlarm 0 BOOL

*Status.InAlarm - ALRM/EnableInFalse - *1(OTE)*
*Status.InAlarm - ALRM/Logic - *1(OTE)*

Status.Disabled 0 BOOL

*Status.Disabled - ALRM/EnableInFalse - *1(OTE)*
*Status.Disabled - ALRM/Logic - *1(OTE)*

Status.MinDurationPRE 0 DINT

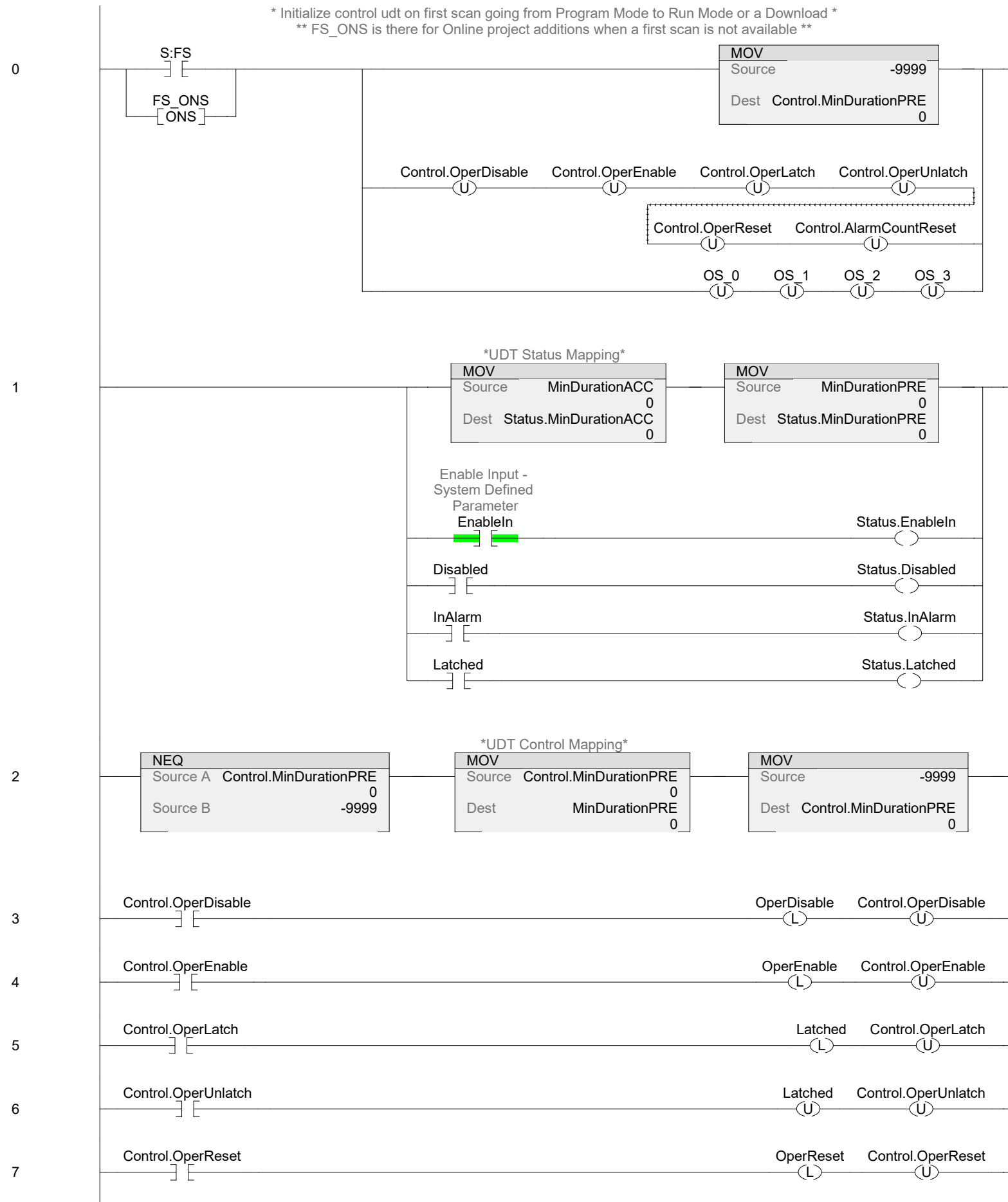
*Status.MinDurationPRE - ALRM/EnableInFalse - *1(MOV)*
*Status.MinDurationPRE - ALRM/Logic - *1(MOV)*

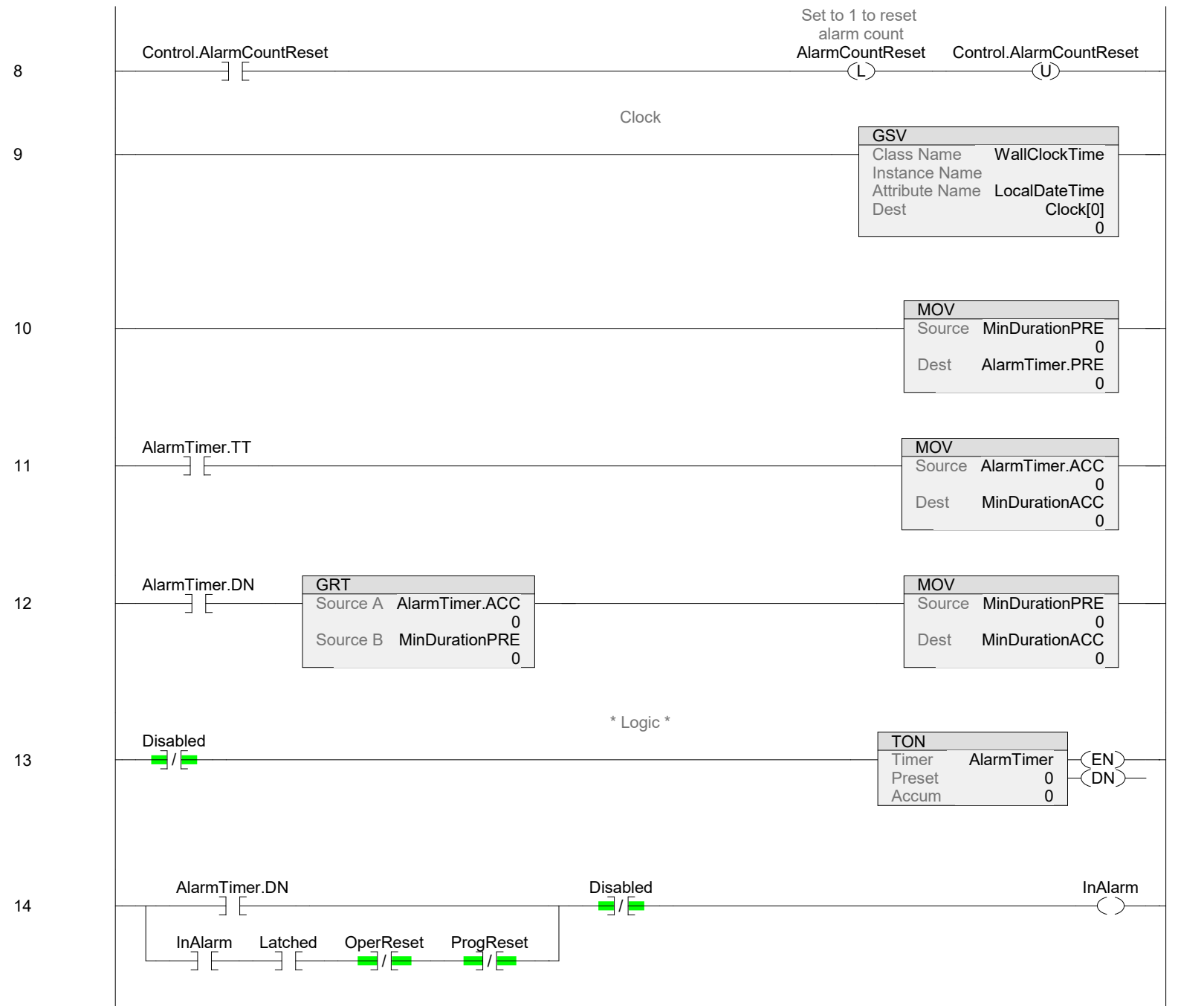
Status.MinDurationACC 0 DINT

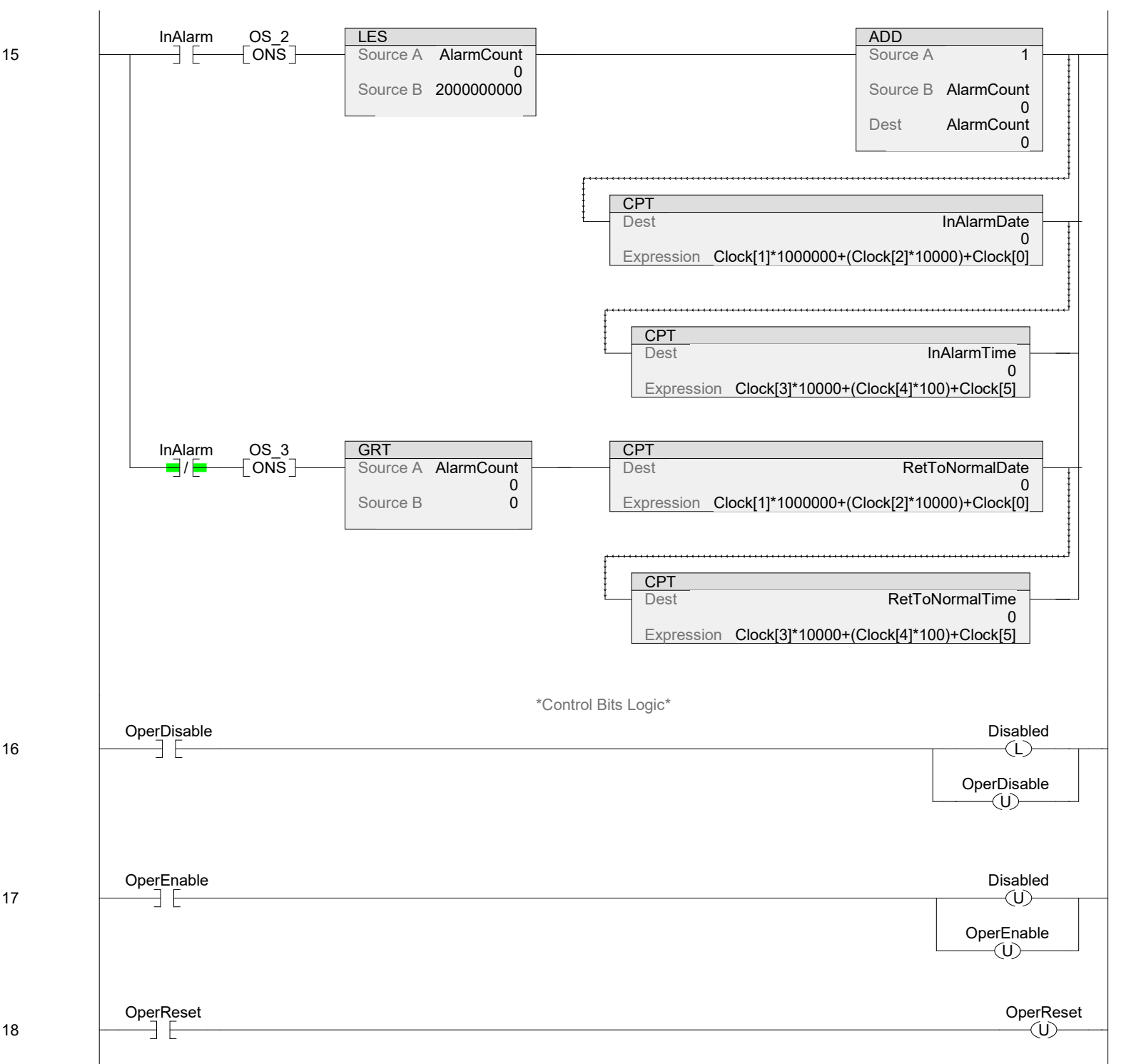
*Status.MinDurationACC - ALRM/EnableInFalse - *1(MOV)*
*Status.MinDurationACC - ALRM/Logic - *1(MOV)*

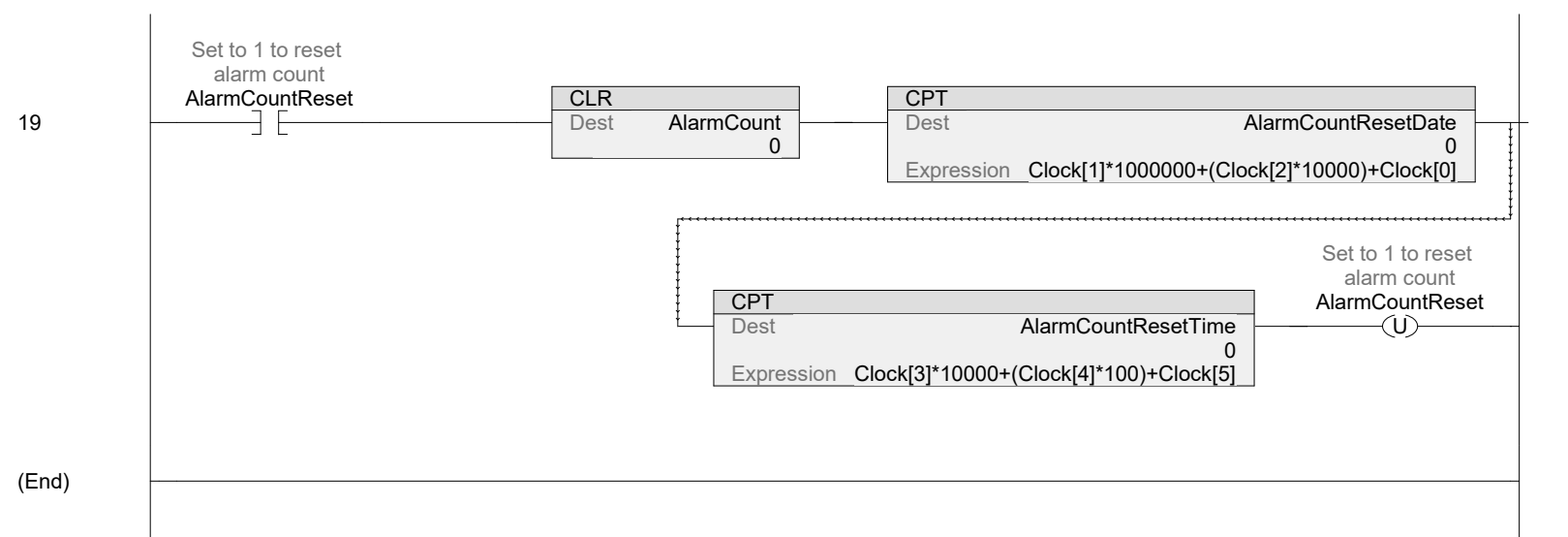
* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *

** FS_ONS is there for Online project additions when a first scan is not available **



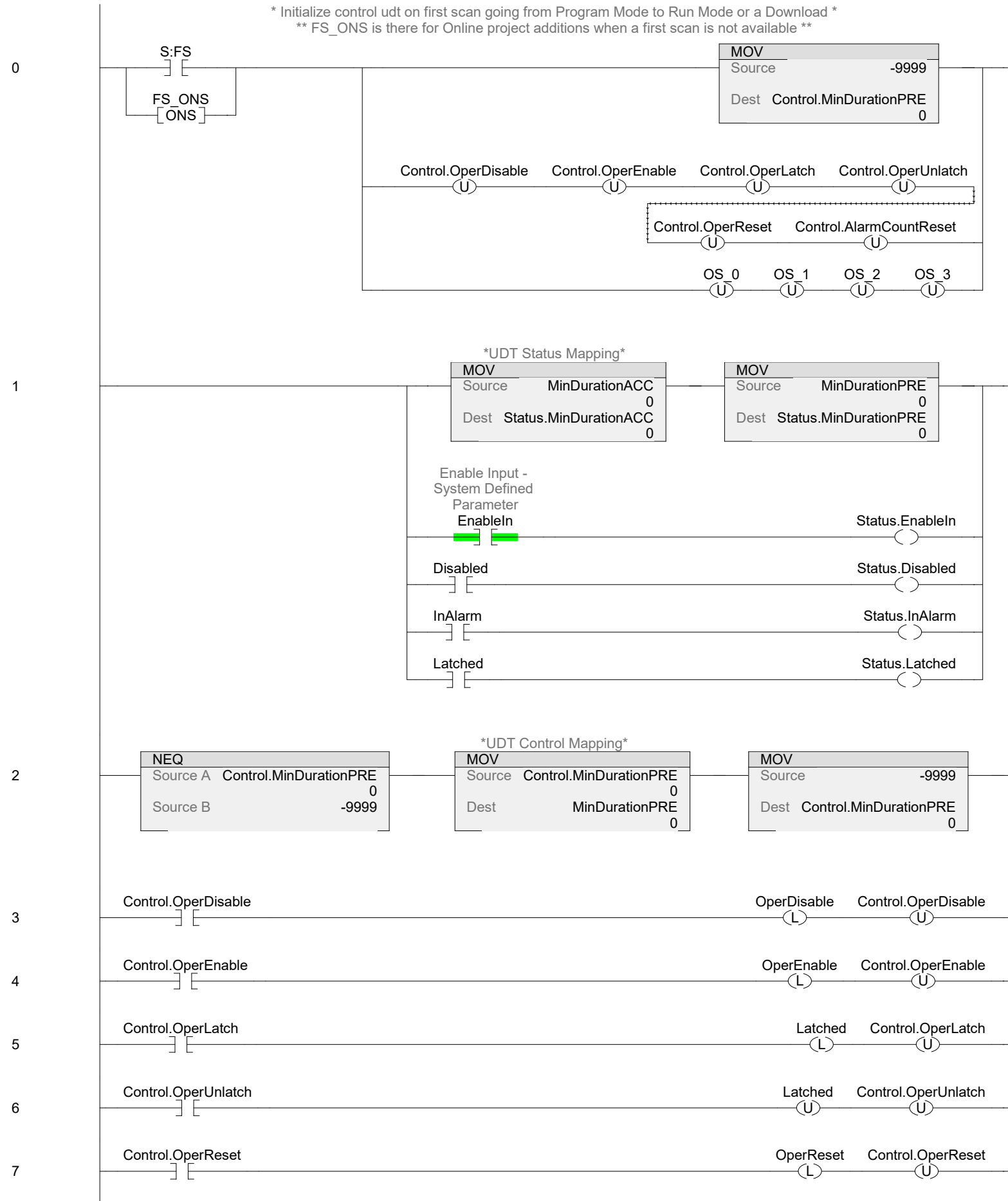


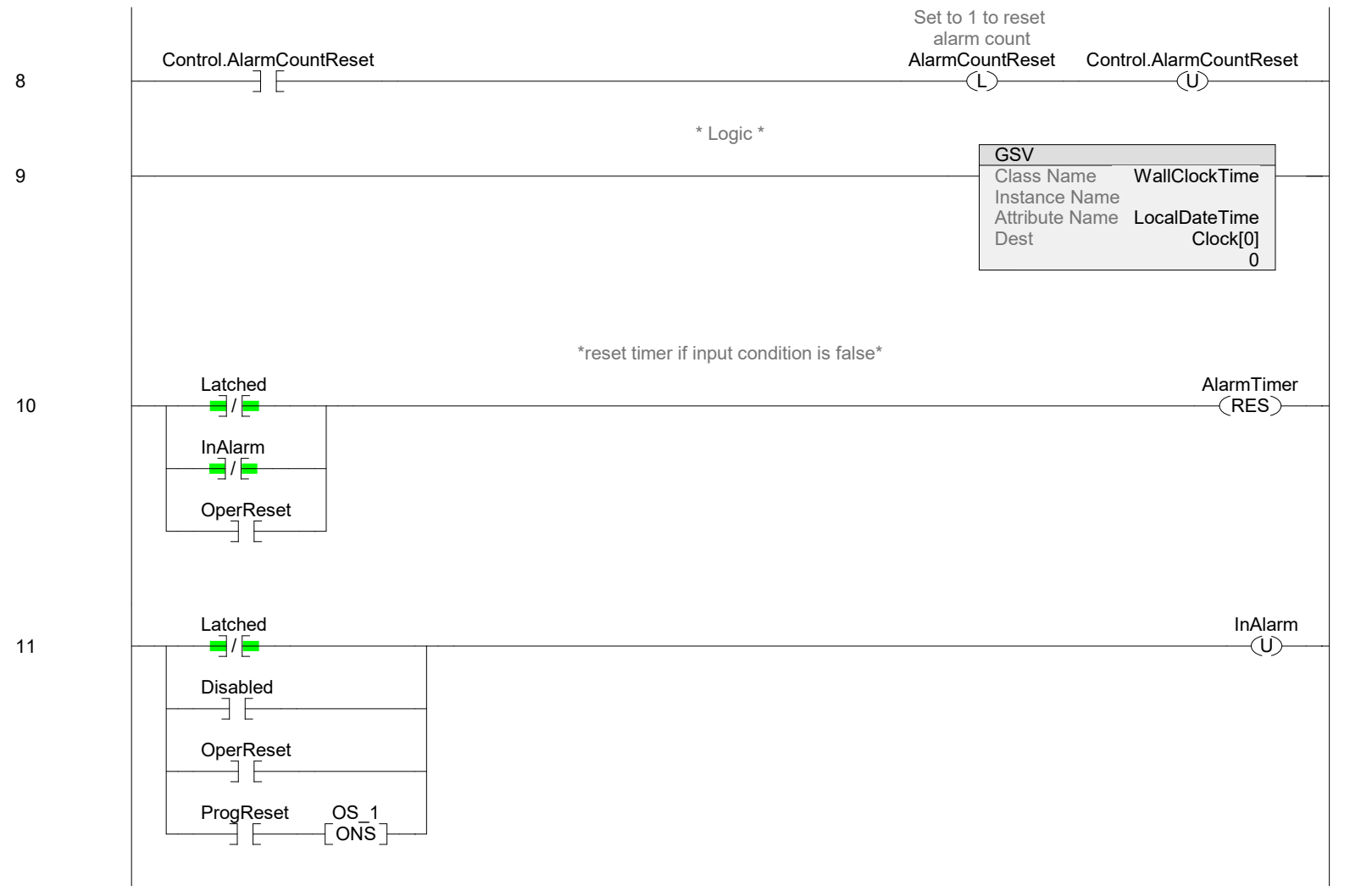


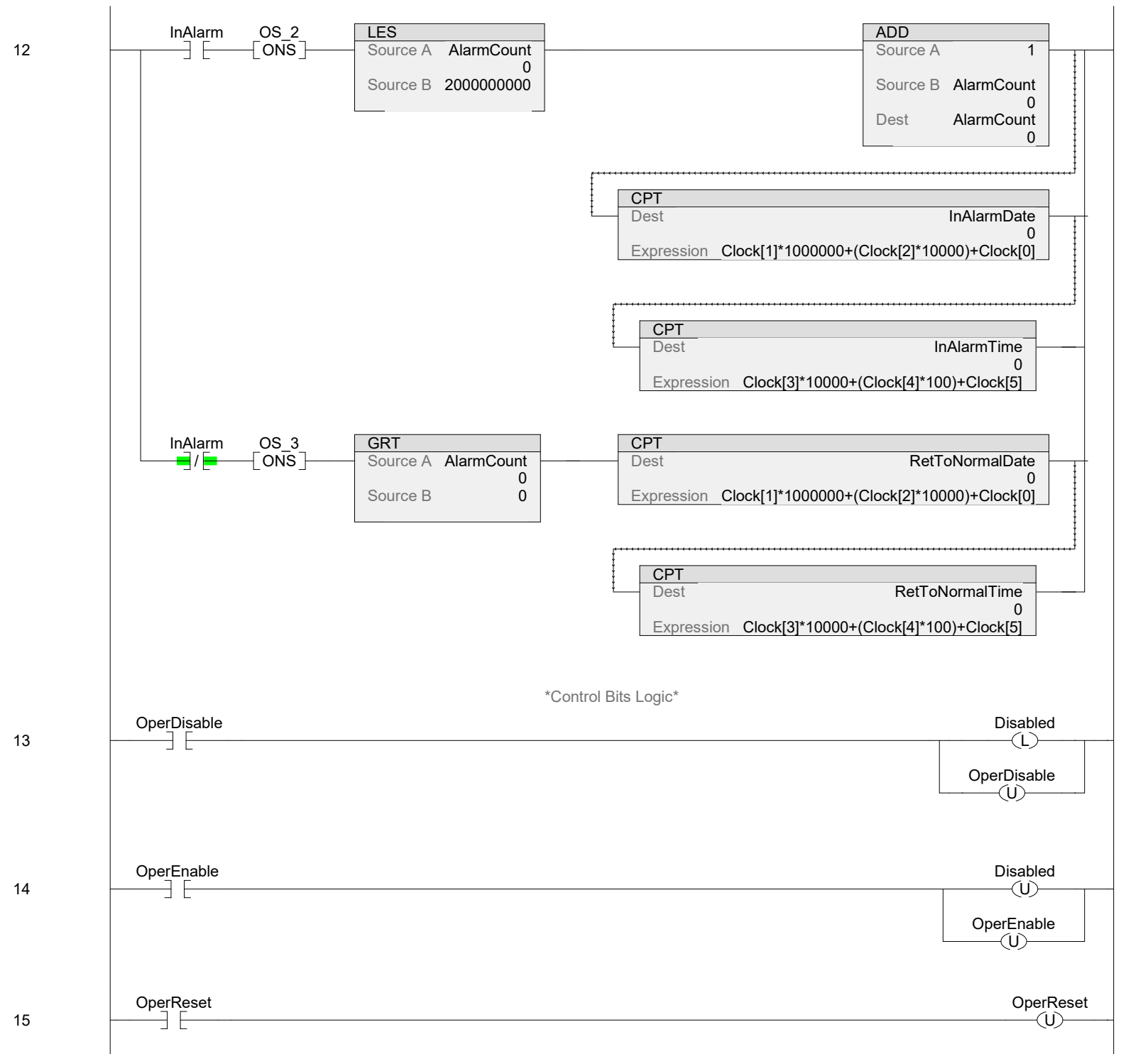


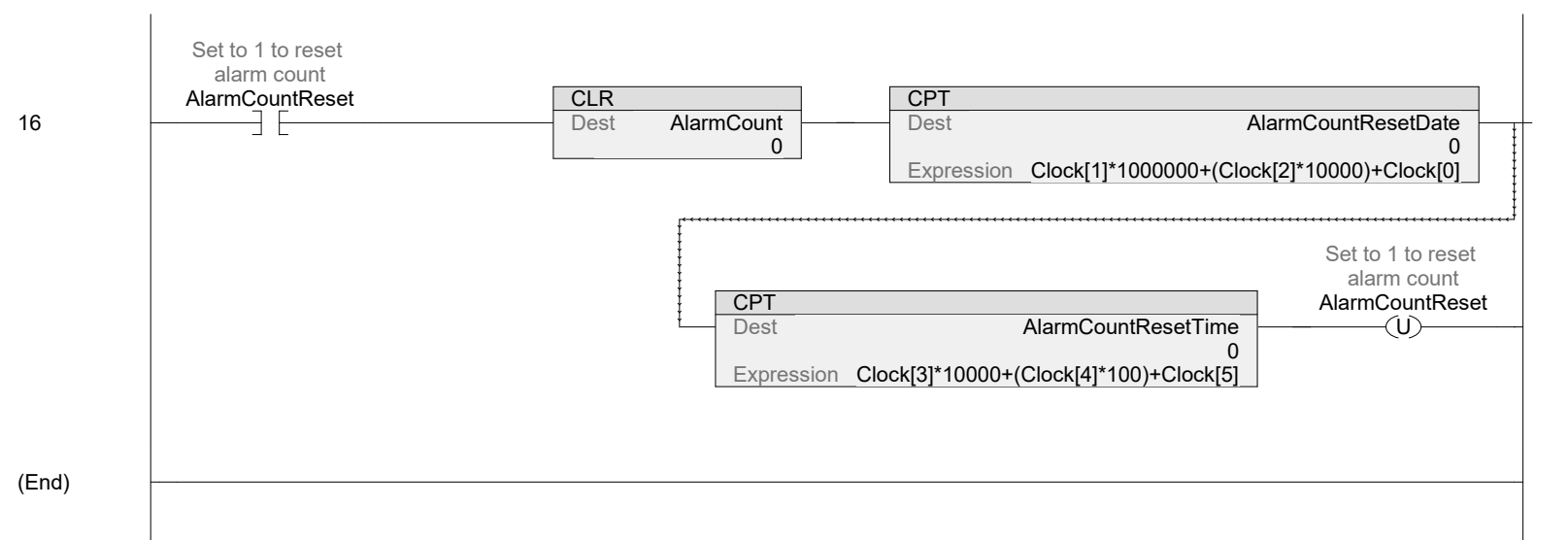
* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *

** FS_ONS is there for Online project additions when a first scan is not available **









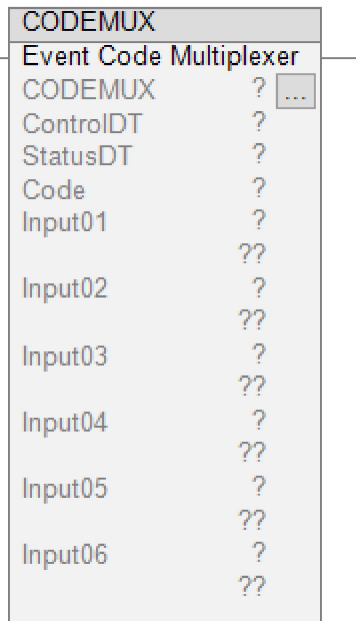
CODEMUX v33.2

SKM

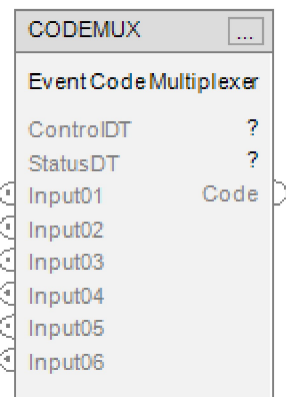
Event Code Multiplexer

Available Languages

Relay Ladder



Function Block



Structured Text

CODEMUX(ControlDT, StatusDT, Input01, Input02, Input03, Input04, Input05, Input06);

Parameters

Required	Name	Data Type	Usage	Description
X	CODEMUX	CODEMUX	InOut	Event Code Multiplexer
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
X	ControlDT	CODEMUX_Control	InOut	
X	StatusDT	CODEMUX_Status	InOut	
	Code	DINT	Output	Event Code
X	Input01	BOOL	Input	Input 01
	Code01	DINT	Input	Code 01
X	Input02	BOOL	Input	Input 02
	Code02	DINT	Input	Code 02

X	Input03	BOOL	Input	Input 03
	Code03	DINT	Input	Code 03
X	Input04	BOOL	Input	Input 04
	Code04	DINT	Input	Code 04
X	Input05	BOOL	Input	Input 05
	Code05	DINT	Input	Code 05
X	Input06	BOOL	Input	Input 06
	Code06	DINT	Input	Code 06
	Interval	DINT	Input	Interval

Extended Description

- Returns Code for up to 6 input conditions and cycles through the codes at a preset interval (default 1500 msec).
- The code is any numeric value that may be used for animating conditions on an HMI or OIT.

Execution

Condition	Description
EnableIn is false	
EnableIn is true	

Revision v33.2 Notes

- 1 Implemented Control/Status UDT's to improve comms efficiency
- 2 One shot added for online additions

Name	Default	Data Type	Scope
Code	0	DINT	CODEMUX
Event Code			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
Code - CODEMUX/EnableInFalse -	*12(MOV), *13(MOV), *14(MOV), *15(MOV), *16(MOV), *17(MOV), *18(MOV), 1(MOV)		
Code - CODEMUX/Logic -	*12(MOV), *13(MOV), *14(MOV), *15(MOV), *16(MOV), *17(MOV), *18(MOV), 1(MOV)		
Code01	1	DINT	CODEMUX
Code 01			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
Code01 - CODEMUX/EnableInFalse -	*2(MOV), 1(MOV), 12(MOV)		
Code01 - CODEMUX/Logic -	*2(MOV), 1(MOV), 12(MOV)		
Code02	2	DINT	CODEMUX
Code 02			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
Code02 - CODEMUX/EnableInFalse -	*3(MOV), 1(MOV), 13(MOV)		
Code02 - CODEMUX/Logic -	*3(MOV), 1(MOV), 13(MOV)		
Code03	3	DINT	CODEMUX
Code 03			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
Code03 - CODEMUX/EnableInFalse -	*4(MOV), 1(MOV), 14(MOV)		
Code03 - CODEMUX/Logic -	*4(MOV), 1(MOV), 14(MOV)		
Code04	4	DINT	CODEMUX
Code 04			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
Code04 - CODEMUX/EnableInFalse -	*5(MOV), 1(MOV), 15(MOV)		
Code04 - CODEMUX/Logic -	*5(MOV), 1(MOV), 15(MOV)		
Code05	5	DINT	CODEMUX
Code 05			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
Code05 - CODEMUX/EnableInFalse -	*6(MOV), 1(MOV), 16(MOV)		
Code05 - CODEMUX/Logic -	*6(MOV), 1(MOV), 16(MOV)		
Code06	6	DINT	CODEMUX
Code 06			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
Code06 - CODEMUX/EnableInFalse -	*7(MOV), 1(MOV), 17(MOV)		
Code06 - CODEMUX/Logic -	*7(MOV), 1(MOV), 17(MOV)		

ControlDT		CODEMUX_Control	CODEMUX
Usage:	InOut Parameter		
Required:	Yes		
Visible:	Yes		
Constant	No		
ControlDT.Code01	??	DINT	
<i>ControlDT.Code01 - CODEMUX/EnableInFalse - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
<i>ControlDT.Code01 - CODEMUX/Logic - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
ControlDT.Code02	??	DINT	
<i>ControlDT.Code02 - CODEMUX/EnableInFalse - *0(MOV), *3(MOV), 3(MOV), 3(NEQ)</i>			
<i>ControlDT.Code02 - CODEMUX/Logic - *0(MOV), *3(MOV), 3(MOV), 3(NEQ)</i>			
ControlDT.Code03	??	DINT	
<i>ControlDT.Code03 - CODEMUX/EnableInFalse - *0(MOV), *4(MOV), 4(MOV), 4(NEQ)</i>			
<i>ControlDT.Code03 - CODEMUX/Logic - *0(MOV), *4(MOV), 4(MOV), 4(NEQ)</i>			
ControlDT.Code04	??	DINT	
<i>ControlDT.Code04 - CODEMUX/EnableInFalse - *0(MOV), *5(MOV), 5(MOV), 5(NEQ)</i>			
<i>ControlDT.Code04 - CODEMUX/Logic - *0(MOV), *5(MOV), 5(MOV), 5(NEQ)</i>			
ControlDT.Code05	??	DINT	
<i>ControlDT.Code05 - CODEMUX/EnableInFalse - *0(MOV), *6(MOV), 6(MOV), 6(NEQ)</i>			
<i>ControlDT.Code05 - CODEMUX/Logic - *0(MOV), *6(MOV), 6(MOV), 6(NEQ)</i>			
ControlDT.Code06	??	DINT	
<i>ControlDT.Code06 - CODEMUX/EnableInFalse - *0(MOV), *7(MOV), 7(MOV), 7(NEQ)</i>			
<i>ControlDT.Code06 - CODEMUX/Logic - *0(MOV), *7(MOV), 7(MOV), 7(NEQ)</i>			
Input01	0	BOOL	CODEMUX
Input 01			
Usage:	Input Parameter		
Required:	Yes		
Visible:	Yes		
External Access:	Read/Write		
<i>Input01 - CODEMUX/EnableInFalse - 12(XIC), 12(XIO), 18(XIO)</i>			
<i>Input01 - CODEMUX/Logic - 12(XIC), 12(XIO), 18(XIO)</i>			
Input02	0	BOOL	CODEMUX
Input 02			
Usage:	Input Parameter		
Required:	Yes		
Visible:	Yes		
External Access:	Read/Write		
<i>Input02 - CODEMUX/EnableInFalse - 13(XIC), 13(XIO), 18(XIO)</i>			
<i>Input02 - CODEMUX/Logic - 13(XIC), 13(XIO), 18(XIO)</i>			
Input03	0	BOOL	CODEMUX
Input 03			
Usage:	Input Parameter		
Required:	Yes		
Visible:	Yes		
External Access:	Read/Write		
<i>Input03 - CODEMUX/EnableInFalse - 14(XIC), 14(XIO), 18(XIO)</i>			
<i>Input03 - CODEMUX/Logic - 14(XIC), 14(XIO), 18(XIO)</i>			
Input04	0	BOOL	CODEMUX
Input 04			
Usage:	Input Parameter		
Required:	Yes		
Visible:	Yes		
External Access:	Read/Write		
<i>Input04 - CODEMUX/EnableInFalse - 15(XIC), 15(XIO), 18(XIO)</i>			
<i>Input04 - CODEMUX/Logic - 15(XIC), 15(XIO), 18(XIO)</i>			
Input05	0	BOOL	CODEMUX
Input 05			
Usage:	Input Parameter		

Input05 (Continued)

Required: Yes
 Visible: Yes
 External Access: Read/Write
Input05 - CODEMUX/EnableInFalse - 16(XIC), 16(XIO), 18(XIO)
Input05 - CODEMUX/Logic - 16(XIC), 16(XIO), 18(XIO)

Input06 0 BOOL CODEMUX

Input 06
 Usage: Input Parameter
 Required: Yes
 Visible: Yes
 External Access: Read/Write
Input06 - CODEMUX/EnableInFalse - 17(XIC), 17(XIO), 18(XIO)
Input06 - CODEMUX/Logic - 17(XIC), 17(XIO), 18(XIO)

Interval 1500 DINT CODEMUX

Interval
 Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
Interval - CODEMUX/EnableInFalse - 8(MOV)
Interval - CODEMUX/Logic - 8(MOV)

StatusDT CODEMUX_Status CODEMUX

Usage: InOut Parameter
 Required: Yes
 Visible: Yes
 Constant: No

StatusDT.Code ?? DINT

*StatusDT.Code - CODEMUX/EnableInFalse - *1(MOV)*
*StatusDT.Code - CODEMUX/Logic - *1(MOV)*

StatusDT.Code01 ?? DINT

*StatusDT.Code01 - CODEMUX/EnableInFalse - *1(MOV)*
*StatusDT.Code01 - CODEMUX/Logic - *1(MOV)*

StatusDT.Code02 ?? DINT

*StatusDT.Code02 - CODEMUX/EnableInFalse - *1(MOV)*
*StatusDT.Code02 - CODEMUX/Logic - *1(MOV)*

StatusDT.Code03 ?? DINT

*StatusDT.Code03 - CODEMUX/EnableInFalse - *1(MOV)*
*StatusDT.Code03 - CODEMUX/Logic - *1(MOV)*

StatusDT.Code04 ?? DINT

*StatusDT.Code04 - CODEMUX/EnableInFalse - *1(MOV)*
*StatusDT.Code04 - CODEMUX/Logic - *1(MOV)*

StatusDT.Code05 ?? DINT

*StatusDT.Code05 - CODEMUX/EnableInFalse - *1(MOV)*
*StatusDT.Code05 - CODEMUX/Logic - *1(MOV)*

StatusDT.Code06 ?? DINT

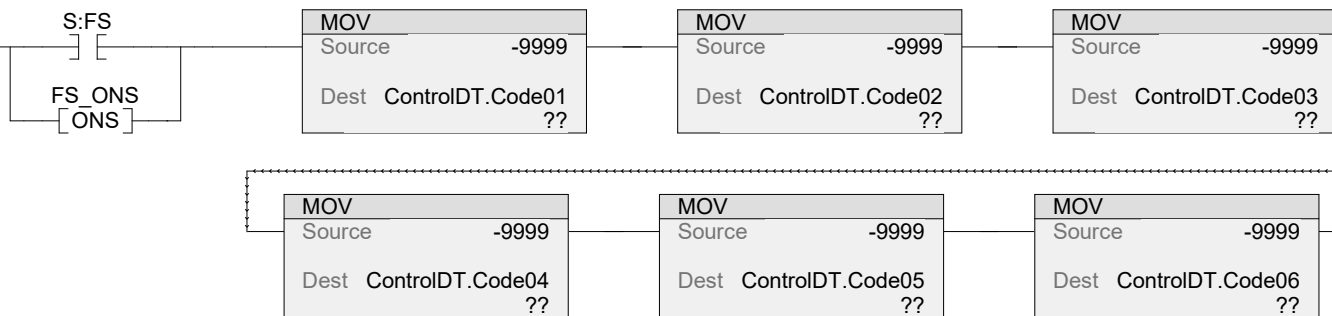
*StatusDT.Code06 - CODEMUX/EnableInFalse - *1(MOV)*
*StatusDT.Code06 - CODEMUX/Logic - *1(MOV)*

Name	Default	Data Type	Scope
Counter		COUNTER	CODEMUX
Cycle Counter for going through each tag			
Usage:	Local Tag		
External Access:	Read/Write		
<i>Counter - CODEMUX/EnableInFalse - *10(CTU), *11(RES)</i>			
<i>Counter - CODEMUX/Logic - *10(CTU), *11(RES)</i>			
Counter.PRE	6	DINT	
Cycle Counter for going through each tag			
Counter.ACC	0	DINT	
Cycle Counter for going through each tag			
<i>Counter.ACC - CODEMUX/EnableInFalse - *12(MOV), *13(MOV), *14(MOV), *15(MOV), *16(MOV), *17(MOV), 12(EQU), 13(EQU), 14(EQU), 15(EQU), 16(EQU), 17(EQU)</i>			
<i>Counter.ACC - CODEMUX/Logic - *12(MOV), *13(MOV), *14(MOV), *15(MOV), *16(MOV), *17(MOV), 12(EQU), 13(EQU), 14(EQU), 15(EQU), 16(EQU), 17(EQU)</i>			
Counter.CU	0	BOOL	
Cycle Counter for going through each tag			
Counter.CD	0	BOOL	
Cycle Counter for going through each tag			
Counter.DN	0	BOOL	
Cycle Counter for going through each tag			
<i>Counter.DN - CODEMUX/EnableInFalse - 11(XIC)</i>			
<i>Counter.DN - CODEMUX/Logic - 11(XIC)</i>			
Counter.OV	0	BOOL	
Cycle Counter for going through each tag			
Counter.UN	0	BOOL	
Cycle Counter for going through each tag			
FS_ONS	0	BOOL	CODEMUX
Usage:	Local Tag		
External Access:	None		
<i>FS_ONS - CODEMUX/EnableInFalse - *0(ONS)</i>			
<i>FS_ONS - CODEMUX/Logic - *0(ONS)</i>			
Timer		TIMER	CODEMUX
Interval Timer			
Usage:	Local Tag		
External Access:	Read/Write		
<i>Timer - CODEMUX/EnableInFalse - *9(TON)</i>			
<i>Timer - CODEMUX/Logic - *9(TON)</i>			
Timer.PRE	2000	DINT	
Interval Timer			
<i>Timer.PRE - CODEMUX/EnableInFalse - *8(MOV)</i>			
<i>Timer.PRE - CODEMUX/Logic - *8(MOV)</i>			
Timer.ACC	0	DINT	
Interval Timer			
Timer.EN	0	BOOL	
Interval Timer			
Timer.TT	0	BOOL	
Interval Timer			
Timer.DN	0	BOOL	
Interval Timer			
<i>Timer.DN - CODEMUX/EnableInFalse - 10(XIC), 9(XIO)</i>			
<i>Timer.DN - CODEMUX/Logic - 10(XIC), 9(XIO)</i>			

* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *

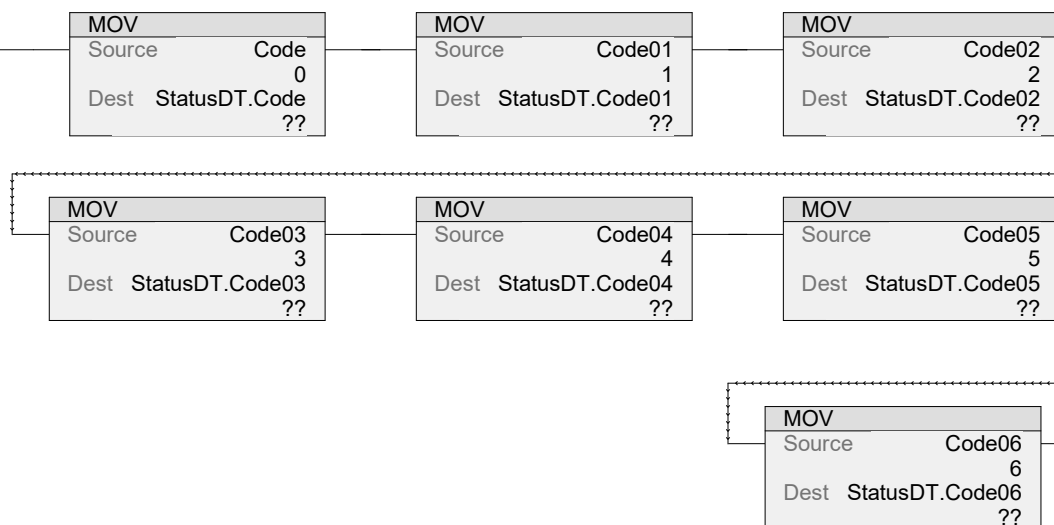
** FS_ONS is there for Online project additions when a first scan is not available **

0



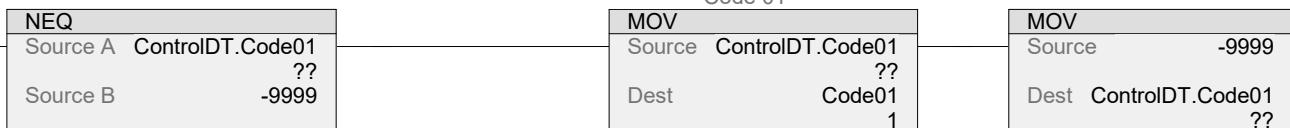
UDT Status Mapping

1



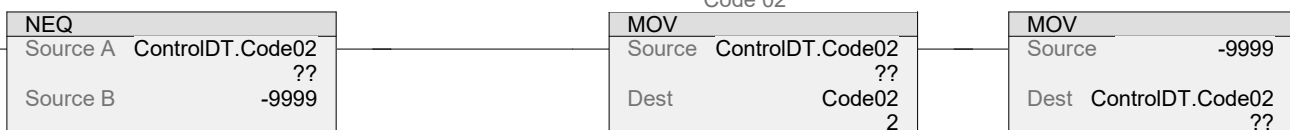
UDT Control Mapping
Code 01

2



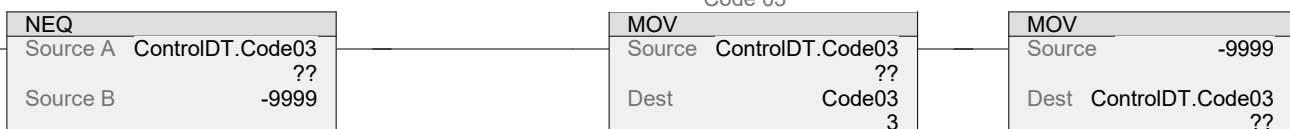
Code 02

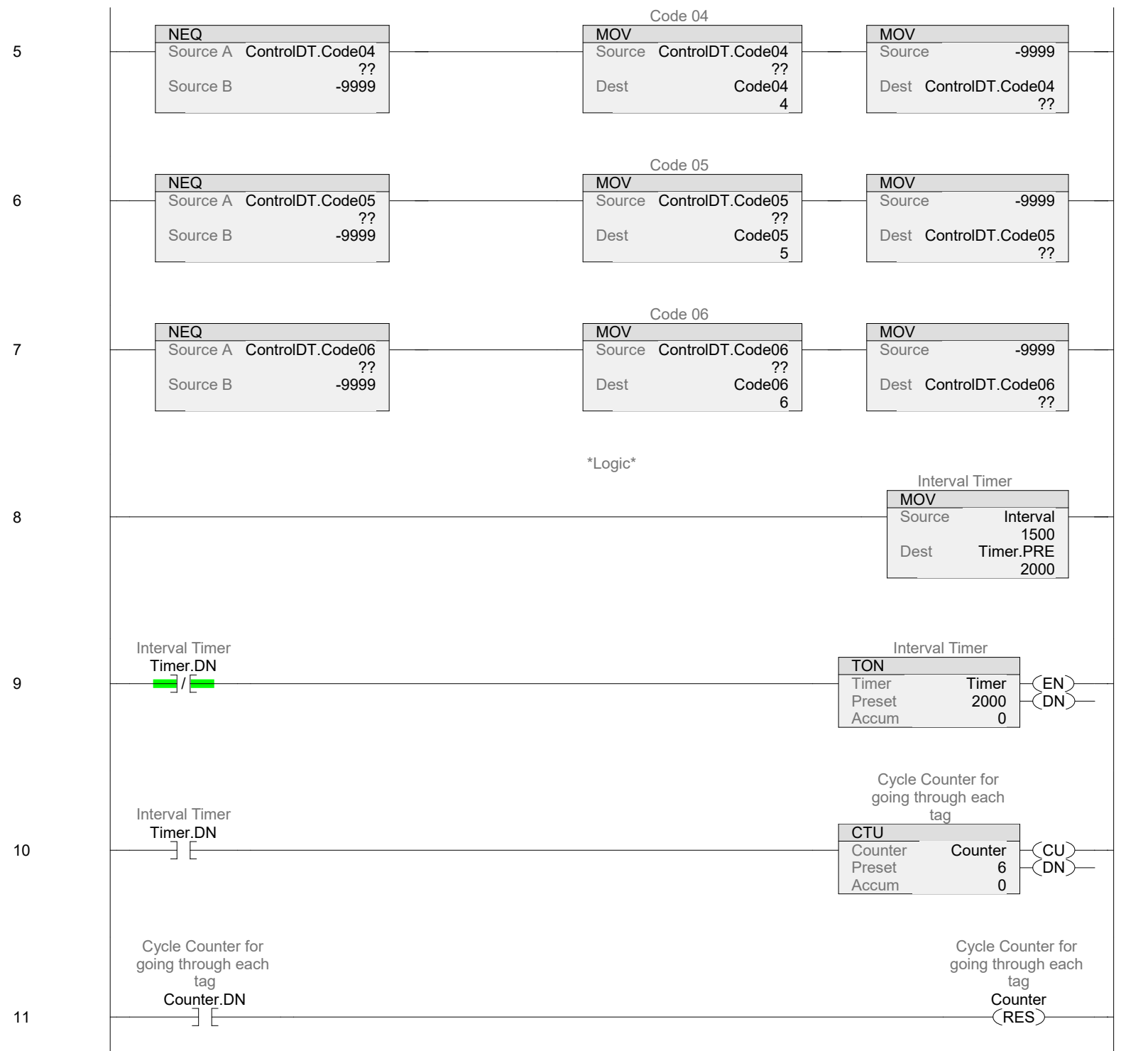
3

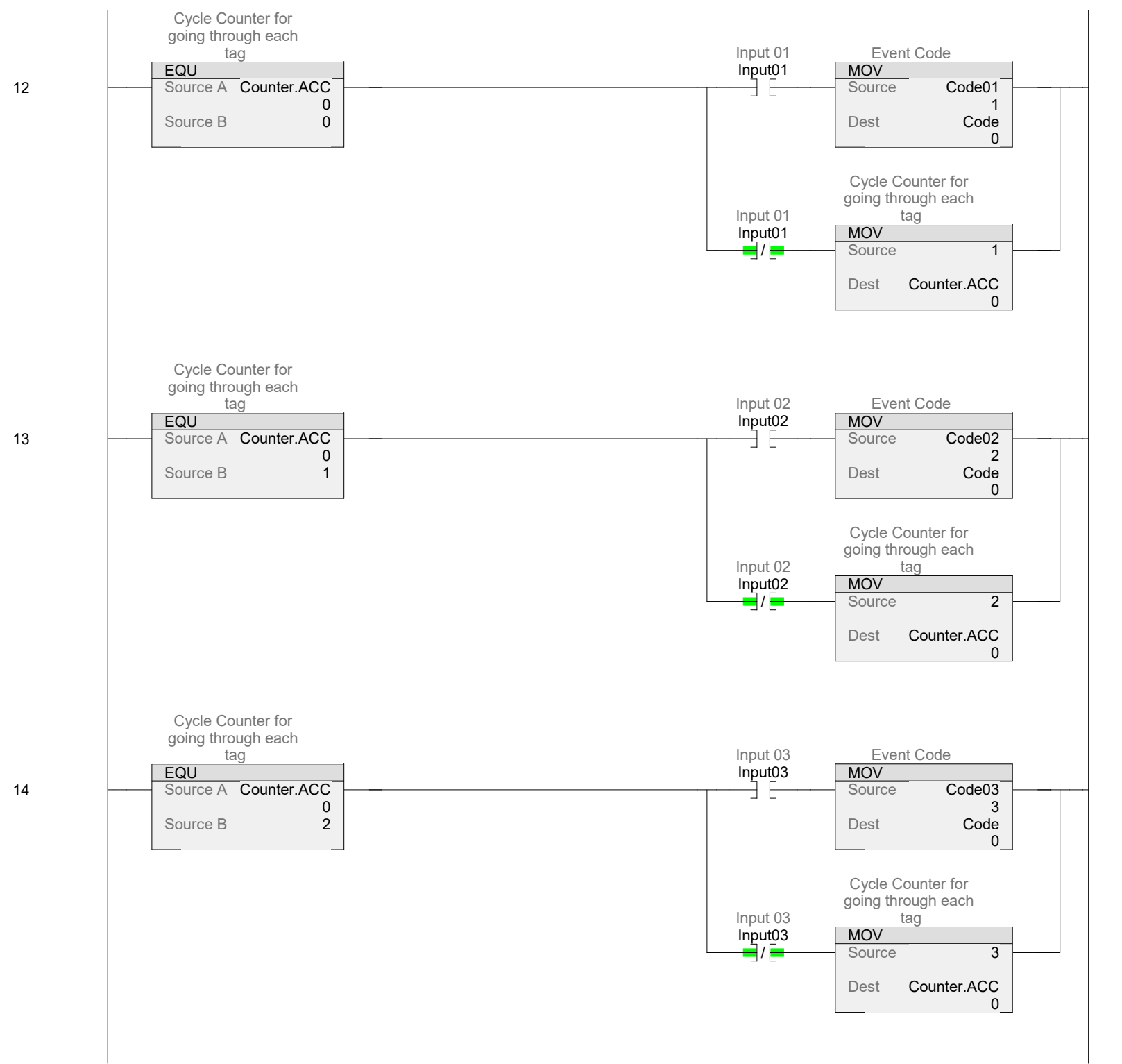


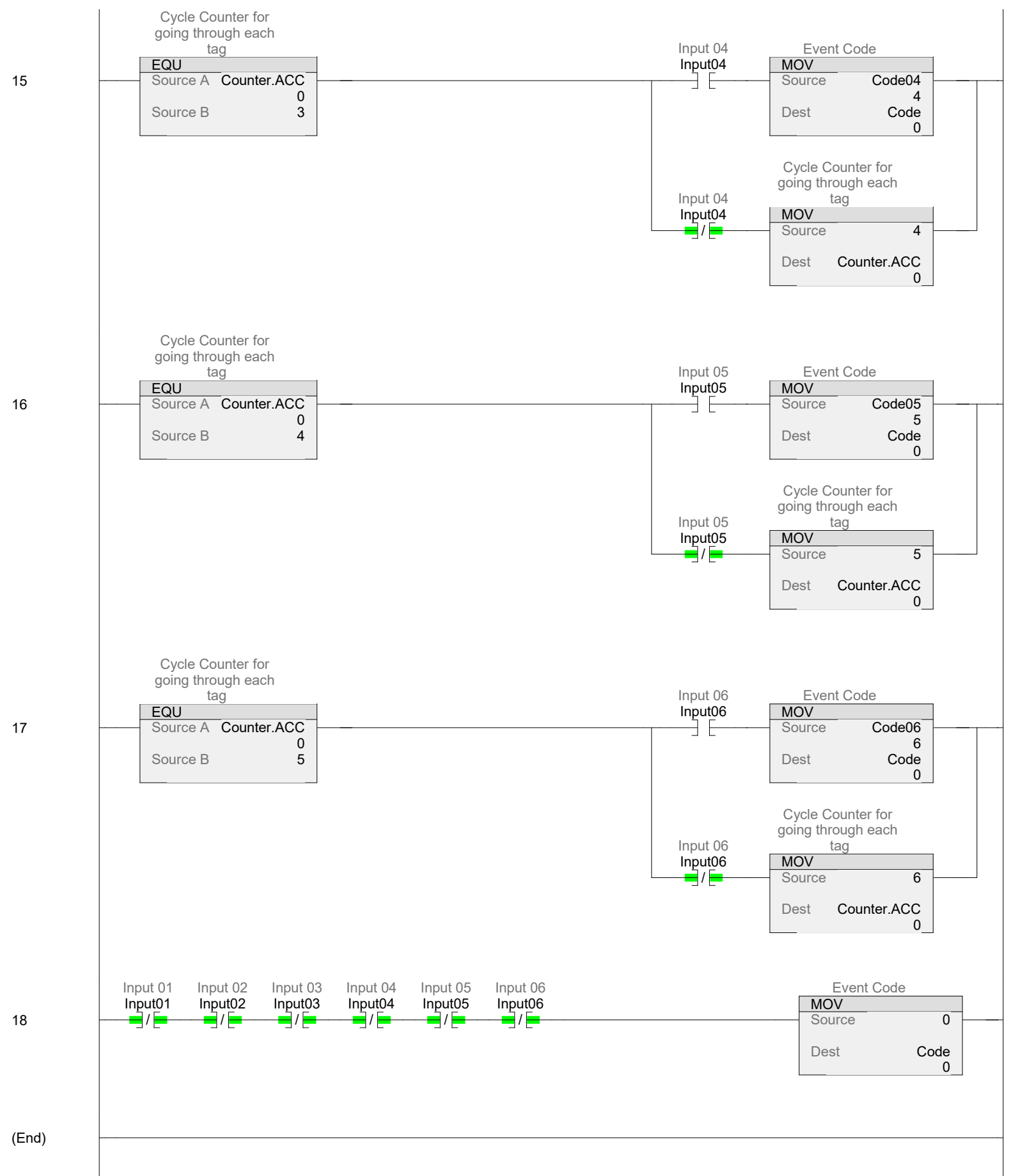
Code 03

4

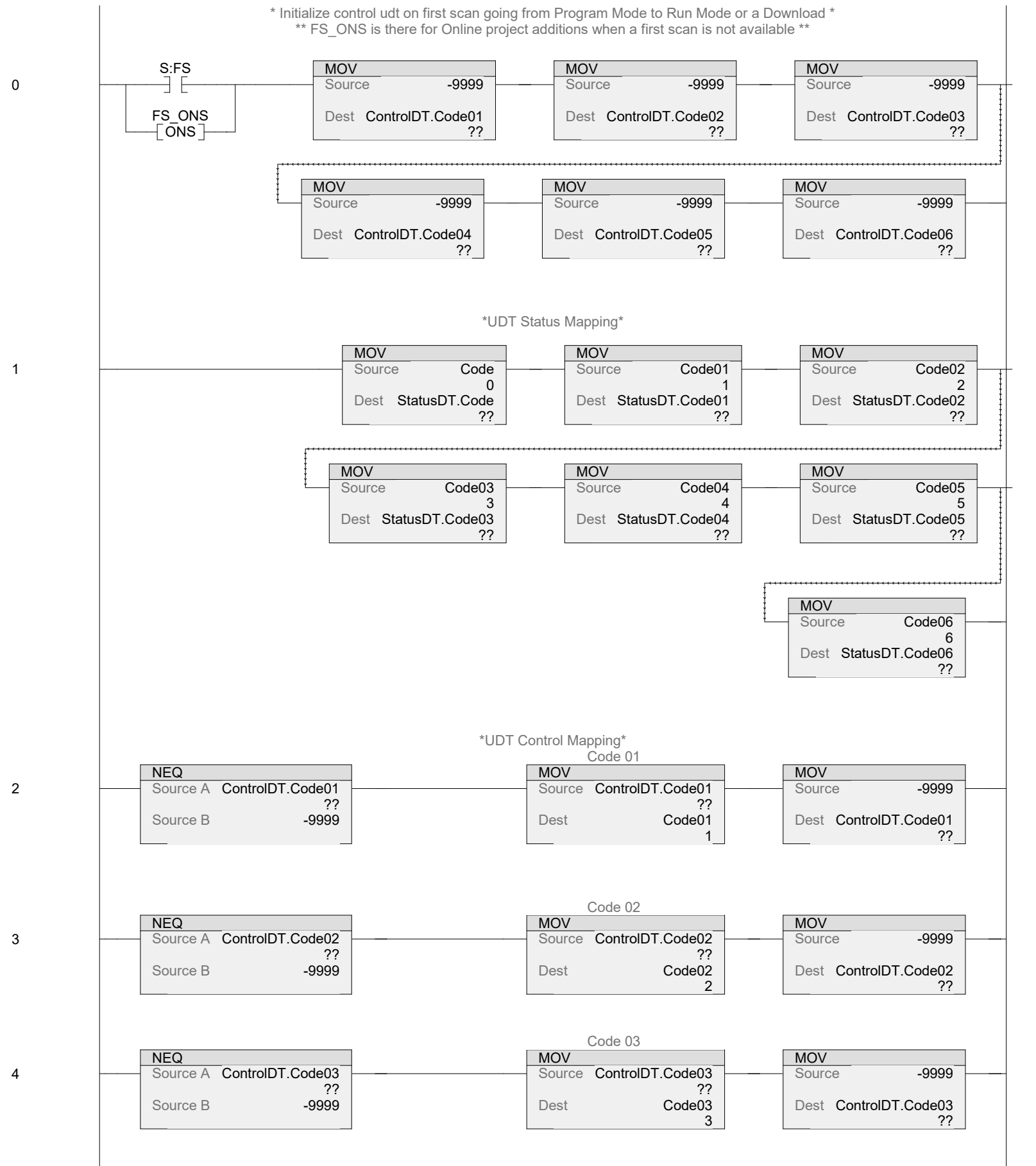


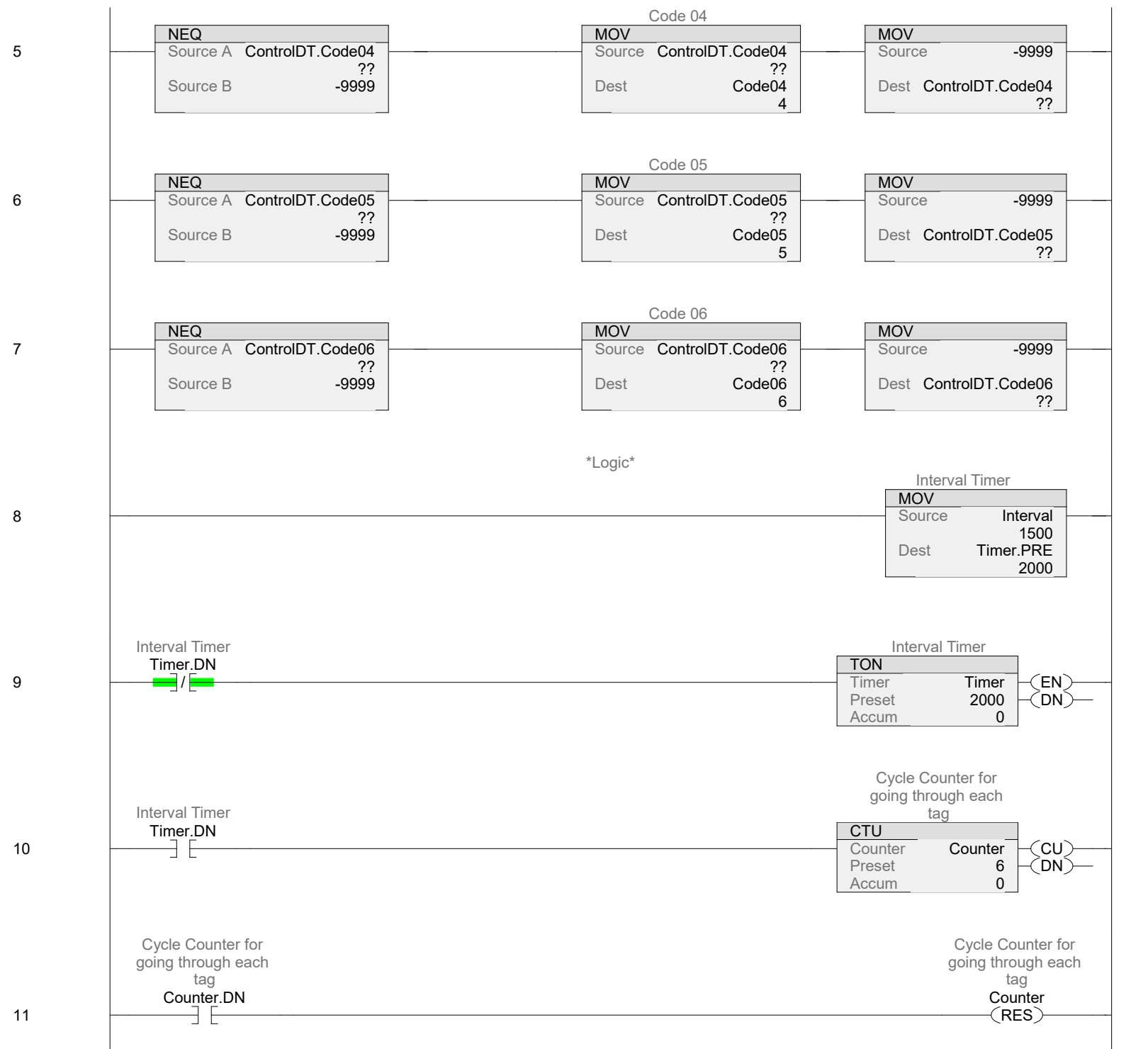


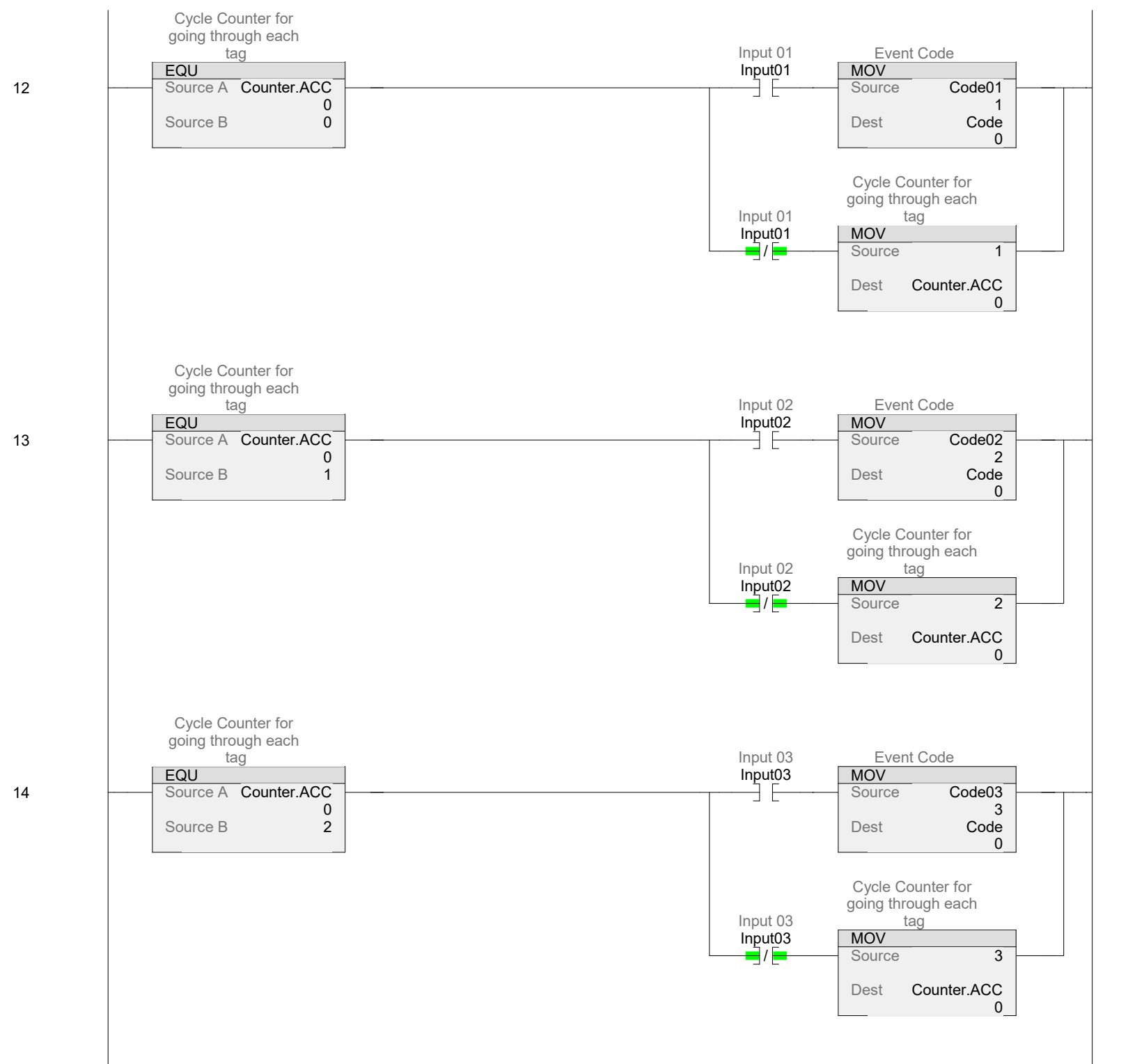


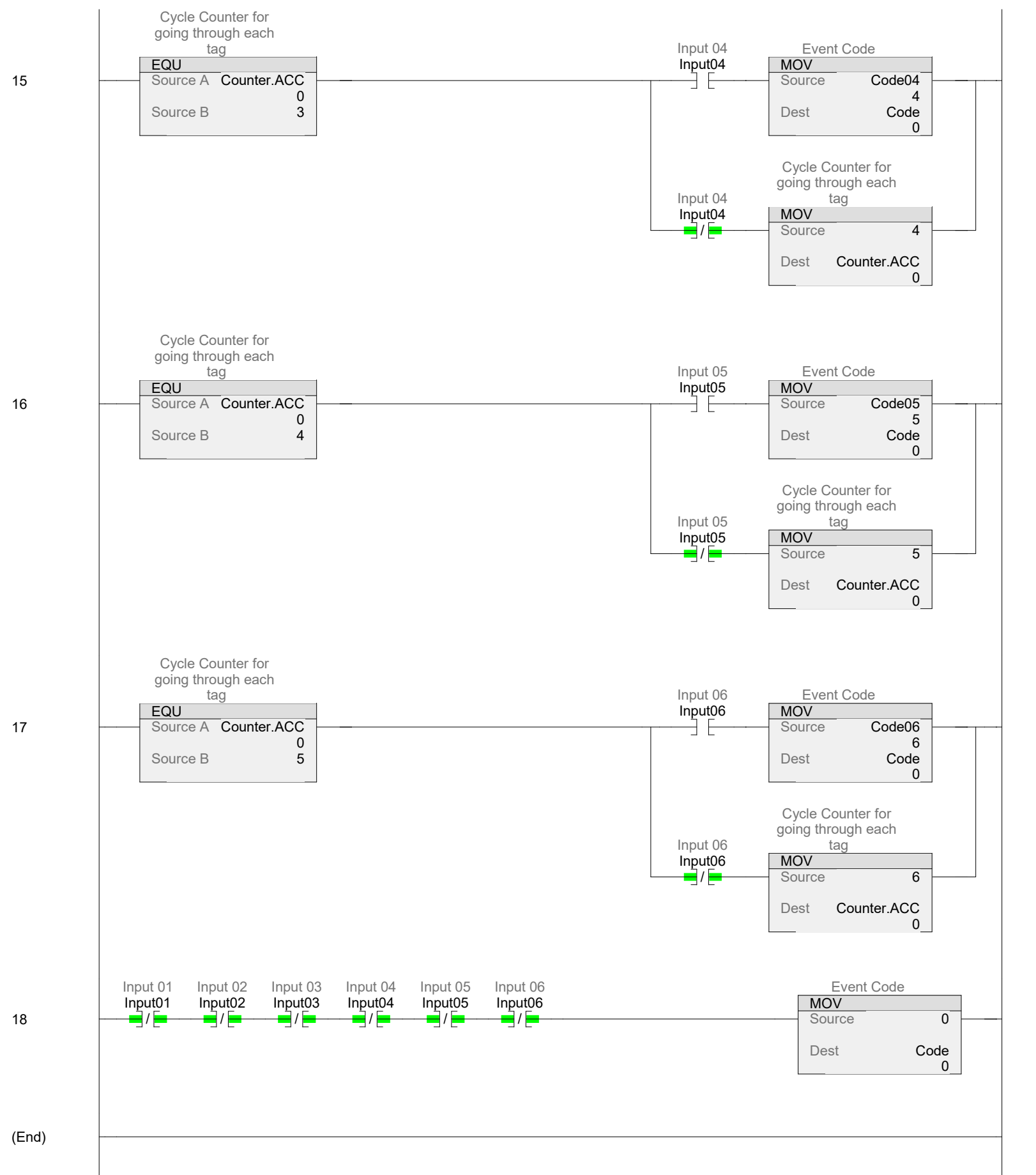


* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *
 ** FS_ONS is there for Online project additions when a first scan is not available **









(End)

DG1 v33.0 First Revision

SKM (Eaton)

PowerXL DG1
Eaton AC Drive
Asm 21 - Asm 127
Input Size 10 INT
Output Size 2 INT
Revision 1.001

Available Languages

Relay Ladder

DG1		
PowerXL DG1		
DG1	? ...	(Ready)
Input	?	(Running)
Output	?	(Direction)
Comm_Fault	?	(Faulted)
	??	(Warning)
NetCtrl	?	(At_Reference)
NetRef	?	(ZeroSpeed)
Speed	?	(FluxReady)
Frequency	?	(DIN1)
Speed_RPM	?	(DIN2)
Current	?	(DIN3)
Torque	?	(DIN4)
Power	?	(DIN5)
Voltage	?	(DIN6)
InputPower	?	(DIN7)
Binary	?	(DIN8)
FaultCode	?	(DO1)
FaultReset	?	(RO1)
FwdCmd	?	(RO2)
RevCmd	?	(RO3)
SpeedReference	?	

Function Block

DG1 ...

PowerXL DG1

Input	?
Output	?
Comm_Fault	Ready
NetCtrl	Running
NetRef	Direction
FaultReset	Faulted
FwdCmd	Warning
RevCmd	At_Reference
SpeedReference	ZeroSpeed
	FluxReady
	Speed
	Frequency
	Speed_RPM
	Current
	Torque
	Power
	Voltage
	InputPower
	DIN1
	DIN2
	DIN3
	DIN4
	DIN5
	DIN6
	DIN7
	DIN8
	DO1
	RO1
	RO2
	RO3
	Binary
	FaultCode

Structured Text
 DG1(Input, Output, Comm_Fault);

Parameters

Required	Name	Data Type	Usage	Description
X	DG1	DG1	InOut	PowerXL DG1 Eaton AC Drive Asm 21 - Asm 127 Input Size 10 INT Output Size 2 INT Revision 1.001
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
X	Input	INT	InOut	
X	Output	INT	InOut	
X	Comm_Fault	BOOL	Input	
	NetCtrl	BOOL	Input	
	NetRef	BOOL	Input	
	Ready	BOOL	Output	
	Running	BOOL	Output	

Direction	BOOL	Output	
Faulted	BOOL	Output	
Warning	BOOL	Output	
At_Reference	BOOL	Output	
ZeroSpeed	BOOL	Output	
FluxReady	BOOL	Output	
Speed	REAL	Output	
Frequency	REAL	Output	
Speed_RPM	REAL	Output	
Current	REAL	Output	
Torque	REAL	Output	
Power	REAL	Output	
Voltage	REAL	Output	
InputPower	REAL	Output	
DIN1	BOOL	Output	
DIN2	BOOL	Output	
DIN3	BOOL	Output	
DIN4	BOOL	Output	
DIN5	BOOL	Output	
DIN6	BOOL	Output	
DIN7	BOOL	Output	
DIN8	BOOL	Output	
DO1	BOOL	Output	
RO1	BOOL	Output	
RO2	BOOL	Output	
RO3	BOOL	Output	
Binary	DINT	Output	
FaultCode	DINT	Output	
FaultReset	BOOL	Input	
SpeedPercentFactor	DINT	Input	
FrequencyFactor	DINT	Input	
SpeedRPMFactor	DINT	Input	
CurrentFactor	DINT	Input	
TorqueFactor	DINT	Input	
PowerFactor	DINT	Input	
FwdCmd	BOOL	Input	
RevCmd	BOOL	Input	
ReferenceFactor	DINT	Input	Speed Reference Scale Factor (10)
SpeedReference	REAL	Input	RPM

Extended Description

Comm Fault: Analog Values = 0.0 and Binary Status = 0

- Process Data Out 1 Output Frequency Hz 0.01 Hz ID = 1
- Process Data Out 2 Motor Speed rpm 1 rpm ID = 2
- Process Data Out 3 Motor Current A 0.1 A ID = 3
- Process Data Out 4 Motor Torque % 0.10% ID = 4
- Process Data Out 5 Motor Power % 0.10% ID = 5
- Process Data Out 6 Motor Voltage V 0.1 V ID = 6
- Process Data Out 7 Binary External Inputs ID = 2209
- Process Data Out 8 Latest Fault code ID = 28

See Below for 'Process Data Out 7 Binary External Inputs'

Modbus Address / ID = 2209

- Bit 0 = DIN1 Status
- Bit 1 = DIN2 Status
- Bit 2 = DIN3 Status
- Bit 3 = DIN4 Status
- Bit 4 = DIN5 Status
- Bit 5 = DIN6 Status
- Bit 6 = DIN7 Status
- Bit 7 = DIN8 Status
- Bit 8 = DO1 Status
- Bit 9 = RO1 Status
- Bit 10 = RO2 Status
- Bit 11 = RO3 Status
- Bit 12 = Slot A with Board
- Bit 13 = Slot B with Board
- Bit 14 -15 = Not used

Execution

Condition	Description
EnableIn is false	
EnableIn is true	

Revision v33.0 First Revision Notes

.0 Implemented Control/Status Local tags to improve comms efficiency

Name	Default	Data Type	Scope
At_Reference	0	BOOL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>At_Reference - DG1/EnableInFalse - *38(OTE), 8(XIC)</i>			
<i>At_Reference - DG1/Logic - *38(OTE), 8(XIC)</i>			
Binary	0	DINT	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>Binary - DG1/EnableInFalse - *41(MOV), *42(MOV), 16(MOV)</i>			
<i>Binary - DG1/Logic - *41(MOV), *42(MOV), 16(MOV)</i>			
Comm_Fault	0	BOOL	DG1
Usage:	Input Parameter		
Required:	Yes		
Visible:	Yes		
External Access:	Read/Write		
<i>Comm_Fault - DG1/EnableInFalse - 2(XIC), 33(XIO), 34(XIO), 35(XIO), 36(XIO), 37(XIO), 38(XIO), 39(XIO), 40(XIO), 41(XIO), 42(XIC), 44(XIO), 45(XIO), 46(XIO), 47(XIO), 48(XIO), 49(XIO), 50(XIO), 51(XIO), 52(XIO), 53(XIO), 54(XIO), 55(XIO)</i>			
<i>Comm_Fault - DG1/Logic - 2(XIC), 33(XIO), 34(XIO), 35(XIO), 36(XIO), 37(XIO), 38(XIO), 39(XIO), 40(XIO), 41(XIO), 42(XIC), 44(XIO), 45(XIO), 46(XIO), 47(XIO), 48(XIO), 49(XIO), 50(XIO), 51(XIO), 52(XIO), 53(XIO), 54(XIO), 55(XIO)</i>			
Current	0.0	REAL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>Current - DG1/EnableInFalse - *41(DIV), *42(MOV), 16(MOV), 43(CPT)</i>			
<i>Current - DG1/Logic - *41(DIV), *42(MOV), 16(MOV), 43(CPT)</i>			
CurrentFactor	10	DINT	DG1
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>CurrentFactor - DG1/EnableInFalse - *25(MOV), *26(MOV), 25(LES), 41(DIV)</i>			
<i>CurrentFactor - DG1/Logic - *25(MOV), *26(MOV), 25(LES), 41(DIV)</i>			
DIN1	0	BOOL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>DIN1 - DG1/EnableInFalse - *44(OTE)</i>			
<i>DIN1 - DG1/Logic - *44(OTE)</i>			
DIN2	0	BOOL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>DIN2 - DG1/EnableInFalse - *45(OTE)</i>			
<i>DIN2 - DG1/Logic - *45(OTE)</i>			
DIN3	0	BOOL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		

DIN3 (Continued)

External Access: Read/Write
 DIN3 - DG1/EnableInFalse - *46(O TE)
 DIN3 - DG1/Logic - *46(O TE)

DIN4 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
 DIN4 - DG1/EnableInFalse - *47(O TE)
 DIN4 - DG1/Logic - *47(O TE)

DIN5 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
 DIN5 - DG1/EnableInFalse - *48(O TE)
 DIN5 - DG1/Logic - *48(O TE)

DIN6 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
 DIN6 - DG1/EnableInFalse - *49(O TE)
 DIN6 - DG1/Logic - *49(O TE)

DIN7 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
 DIN7 - DG1/EnableInFalse - *50(O TE)
 DIN7 - DG1/Logic - *50(O TE)

DIN8 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
 DIN8 - DG1/EnableInFalse - *51(O TE)
 DIN8 - DG1/Logic - *51(O TE)

Direction 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read Only
 Direction - DG1/EnableInFalse - *35(O TE), 5(XIC)
 Direction - DG1/Logic - *35(O TE), 5(XIC)

DO1 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
 DO1 - DG1/EnableInFalse - *52(O TE)
 DO1 - DG1/Logic - *52(O TE)

EnableIn 1 BOOL DG1

Enable Input - System Defined Parameter

EnableIn (Continued)

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read Only
EnableIn - DG1/Logic - 1(XIC)

FaultCode 0 DINT DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read Only
*FaultCode - DG1/EnableInFalse - *41(MOV), *42(MOV), 16(MOV)*
*FaultCode - DG1/Logic - *41(MOV), *42(MOV), 16(MOV)*

Faulted 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read Only
*Faulted - DG1/EnableInFalse - *36(OTE), 6(XIC)*
*Faulted - DG1/Logic - *36(OTE), 6(XIC)*

FaultReset 0 BOOL DG1

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
FaultReset - DG1/EnableInFalse - 13(XIC), 58(XIC)
FaultReset - DG1/Logic - 13(XIC), 58(XIC)

FluxReady 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read Only
*FluxReady - DG1/EnableInFalse - *40(OTE), 10(XIC)*
*FluxReady - DG1/Logic - *40(OTE), 10(XIC)*

Frequency 0.0 REAL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read Only
*Frequency - DG1/EnableInFalse - *41(DIV), *42(MOV), 16(MOV)*
*Frequency - DG1/Logic - *41(DIV), *42(MOV), 16(MOV)*

FrequencyFactor 10 DINT DG1

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*FrequencyFactor - DG1/EnableInFalse - *19(MOV), *20(MOV), 19(LES), 41(DIV)*
*FrequencyFactor - DG1/Logic - *19(MOV), *20(MOV), 19(LES), 41(DIV)*

FwdCmd 0 BOOL DG1

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
FwdCmd - DG1/EnableInFalse - 11(XIC)
FwdCmd - DG1/Logic - 11(XIC), 56(XIC)

Input		INT[10]	DG1
Usage:	InOut Parameter		
Required:	Yes		
Visible:	Yes		
Constant	No		
Input[0].0	??	BOOL	
<i>Input[0].0 - DG1/EnableInFalse - 33(XIC)</i>			
<i>Input[0].0 - DG1/Logic - 33(XIC)</i>			
Input[0].1	??	BOOL	
<i>Input[0].1 - DG1/EnableInFalse - 34(XIC)</i>			
<i>Input[0].1 - DG1/Logic - 34(XIC)</i>			
Input[0].2	??	BOOL	
<i>Input[0].2 - DG1/EnableInFalse - 35(XIC)</i>			
<i>Input[0].2 - DG1/Logic - 35(XIC)</i>			
Input[0].3	??	BOOL	
<i>Input[0].3 - DG1/EnableInFalse - 36(XIC)</i>			
<i>Input[0].3 - DG1/Logic - 36(XIC)</i>			
Input[0].4	??	BOOL	
<i>Input[0].4 - DG1/EnableInFalse - 37(XIC)</i>			
<i>Input[0].4 - DG1/Logic - 37(XIC)</i>			
Input[0].5	??	BOOL	
<i>Input[0].5 - DG1/EnableInFalse - 38(XIC)</i>			
<i>Input[0].5 - DG1/Logic - 38(XIC)</i>			
Input[0].6	??	BOOL	
<i>Input[0].6 - DG1/EnableInFalse - 39(XIC)</i>			
<i>Input[0].6 - DG1/Logic - 39(XIC)</i>			
Input[0].7	??	BOOL	
<i>Input[0].7 - DG1/EnableInFalse - 40(XIC)</i>			
<i>Input[0].7 - DG1/Logic - 40(XIC)</i>			
Input[0].8	??	BOOL	
state			
Input[1]	??	INT	
<i>Input[1] - DG1/EnableInFalse - 41(DIV)</i>			
<i>Input[1] - DG1/Logic - 41(DIV)</i>			
Input[2]	??	INT	
<i>Input[2] - DG1/EnableInFalse - 41(DIV)</i>			
<i>Input[2] - DG1/Logic - 41(DIV)</i>			
Input[3]	??	INT	
<i>Input[3] - DG1/EnableInFalse - 41(DIV)</i>			
<i>Input[3] - DG1/Logic - 41(DIV)</i>			
Input[4]	??	INT	
<i>Input[4] - DG1/EnableInFalse - 41(DIV)</i>			
<i>Input[4] - DG1/Logic - 41(DIV)</i>			
Input[5]	??	INT	
<i>Input[5] - DG1/EnableInFalse - 41(DIV)</i>			
<i>Input[5] - DG1/Logic - 41(DIV)</i>			
Input[6]	??	INT	
<i>Input[6] - DG1/EnableInFalse - 41(DIV)</i>			
<i>Input[6] - DG1/Logic - 41(DIV)</i>			
Input[7]	??	INT	
<i>Input[7] - DG1/EnableInFalse - 41(DIV)</i>			
<i>Input[7] - DG1/Logic - 41(DIV)</i>			
Input[8]	??	INT	
<i>Input[8] - DG1/EnableInFalse - 41(MOV)</i>			
<i>Input[8] - DG1/Logic - 41(MOV)</i>			
Input[8].0	??	BOOL	
<i>Input[8].0 - DG1/EnableInFalse - 44(XIC)</i>			
<i>Input[8].0 - DG1/Logic - 44(XIC)</i>			
Input[8].1	??	BOOL	
<i>Input[8].1 - DG1/EnableInFalse - 45(XIC)</i>			
<i>Input[8].1 - DG1/Logic - 45(XIC)</i>			
Input[8].2	??	BOOL	
<i>Input[8].2 - DG1/EnableInFalse - 46(XIC)</i>			

Input (Continued)

<i>Input[8].2 - DG1/Logic - 46(XIC)</i>			
Input[8].3	??	BOOL	
<i>Input[8].3 - DG1/EnableInFalse - 47(XIC)</i>			
<i>Input[8].3 - DG1/Logic - 47(XIC)</i>			
Input[8].4	??	BOOL	
<i>Input[8].4 - DG1/EnableInFalse - 48(XIC)</i>			
<i>Input[8].4 - DG1/Logic - 48(XIC)</i>			
Input[8].5	??	BOOL	
<i>Input[8].5 - DG1/EnableInFalse - 49(XIC)</i>			
<i>Input[8].5 - DG1/Logic - 49(XIC)</i>			
Input[8].6	??	BOOL	
<i>Input[8].6 - DG1/EnableInFalse - 50(XIC)</i>			
<i>Input[8].6 - DG1/Logic - 50(XIC)</i>			
Input[8].7	??	BOOL	
<i>Input[8].7 - DG1/EnableInFalse - 51(XIC)</i>			
<i>Input[8].7 - DG1/Logic - 51(XIC)</i>			
Input[8].8	??	BOOL	
<i>Input[8].8 - DG1/EnableInFalse - 52(XIC)</i>			
<i>Input[8].8 - DG1/Logic - 52(XIC)</i>			
Input[8].9	??	BOOL	
<i>Input[8].9 - DG1/EnableInFalse - 53(XIC)</i>			
<i>Input[8].9 - DG1/Logic - 53(XIC)</i>			
Input[8].10	??	BOOL	
<i>Input[8].10 - DG1/EnableInFalse - 54(XIC)</i>			
<i>Input[8].10 - DG1/Logic - 54(XIC)</i>			
Input[8].11	??	BOOL	
<i>Input[8].11 - DG1/EnableInFalse - 55(XIC)</i>			
<i>Input[8].11 - DG1/Logic - 55(XIC)</i>			
Input[9]	??	INT	
<i>Input[9] - DG1/EnableInFalse - 41(MOV), 42(MOV)</i>			
<i>Input[9] - DG1/Logic - 41(MOV), 42(MOV)</i>			
InputPower	0.0	REAL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>InputPower - DG1/EnableInFalse - *43(CLR), *43(CPT), 16(MOV)</i>			
<i>InputPower - DG1/Logic - *43(CLR), *43(CPT), 16(MOV)</i>			
NetCtrl	0	BOOL	DG1
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>NetCtrl - DG1/EnableInFalse - 14(XIC), 59(XIC)</i>			
<i>NetCtrl - DG1/Logic - 14(XIC), 59(XIC)</i>			
NetRef	0	BOOL	DG1
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>NetRef - DG1/EnableInFalse - 15(XIC), 60(XIC)</i>			
<i>NetRef - DG1/Logic - 15(XIC), 60(XIC)</i>			
Output		INT[2]	DG1
Usage:	InOut Parameter		
Required:	Yes		
Visible:	Yes		
Constant	No		
Output[0].0	??	BOOL	

Output (Continued)

<i>Output[0].0 - DG1/EnableInFalse - *56(OTU)</i>			
<i>Output[0].0 - DG1/Logic - *56(OTE)</i>			
Output[0].1	??	BOOL	
<i>Output[0].1 - DG1/EnableInFalse - *57(OTU)</i>			
<i>Output[0].1 - DG1/Logic - *57(OTE)</i>			
Output[0].2	??	BOOL	
<i>Output[0].2 - DG1/EnableInFalse - *58(OTE)</i>			
<i>Output[0].2 - DG1/Logic - *58(OTE)</i>			
Output[0].5	??	BOOL	
<i>Output[0].5 - DG1/EnableInFalse - *59(OTE)</i>			
<i>Output[0].5 - DG1/Logic - *59(OTE)</i>			
Output[0].6	??	BOOL	
<i>Output[0].6 - DG1/EnableInFalse - *60(OTE)</i>			
<i>Output[0].6 - DG1/Logic - *60(OTE)</i>			
Output[1]	??	INT	
RPM			
<i>Output[1] - DG1/EnableInFalse - *61(MUL)</i>			
<i>Output[1] - DG1/Logic - *61(MUL)</i>			
Power	0.0	REAL	DG1
Usage: Output Parameter			
Required: No			
Visible: Yes			
External Access: Read Only			
<i>Power - DG1/EnableInFalse - *41(DIV), *42(MOV), 16(MOV)</i>			
<i>Power - DG1/Logic - *41(DIV), *42(MOV), 16(MOV)</i>			
PowerFactor	1	DINT	DG1
Usage: Input Parameter			
Required: No			
Visible: No			
External Access: Read/Write			
<i>PowerFactor - DG1/EnableInFalse - *29(MOV), *30(MOV), 29(LES), 41(DIV)</i>			
<i>PowerFactor - DG1/Logic - *29(MOV), *30(MOV), 29(LES), 41(DIV)</i>			
Ready	0	BOOL	DG1
Usage: Output Parameter			
Required: No			
Visible: Yes			
External Access: Read Only			
<i>Ready - DG1/EnableInFalse - *33(OTE), 3(XIC)</i>			
<i>Ready - DG1/Logic - *33(OTE), 3(XIC)</i>			
ReferenceFactor	10	DINT	DG1
Speed Reference Scale Factor (10)			
Usage: Input Parameter			
Required: No			
Visible: No			
External Access: Read/Write			
<i>ReferenceFactor - DG1/EnableInFalse - *31(MOV), *32(MOV), 31(LES), 61(MUL)</i>			
<i>ReferenceFactor - DG1/Logic - *31(MOV), *32(MOV), 31(LES), 61(MUL)</i>			
RevCmd	0	BOOL	DG1
Usage: Input Parameter			
Required: No			
Visible: Yes			
External Access: Read/Write			
<i>RevCmd - DG1/EnableInFalse - 12(XIC)</i>			
<i>RevCmd - DG1/Logic - 12(XIC), 57(XIC)</i>			
RO1	0	BOOL	DG1
Usage: Output Parameter			

RO1 (Continued)

Required: No
 Visible: Yes
 External Access: Read/Write
*RO1 - DG1/EnableInFalse - *53(OTE)*
*RO1 - DG1/Logic - *53(OTE)*

RO2 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
*RO2 - DG1/EnableInFalse - *54(OTE)*
*RO2 - DG1/Logic - *54(OTE)*

RO3 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
*RO3 - DG1/EnableInFalse - *55(OTE)*
*RO3 - DG1/Logic - *55(OTE)*

Running 0 BOOL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read Only
*Running - DG1/EnableInFalse - *34(OTE), 4(XIC), 43(XIO)*
*Running - DG1/Logic - *34(OTE), 4(XIC), 43(XIO)*

Speed 0.0 REAL DG1

Usage: Output Parameter
 Required: No
 Visible: Yes
 External Access: Read Only
*Speed - DG1/EnableInFalse - *41(DIV), *42(MOV), 16(MOV)*
*Speed - DG1/Logic - *41(DIV), *42(MOV), 16(MOV)*

SpeedPercentFactor 100 DINT DG1

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*SpeedPercentFactor - DG1/EnableInFalse - *17(MOV), *18(MOV), 17(LES), 41(DIV)*
*SpeedPercentFactor - DG1/Logic - *17(MOV), *18(MOV), 17(LES), 41(DIV)*

SpeedReference 0.0 REAL DG1

RPM
 Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write
SpeedReference - DG1/EnableInFalse - 61(MUL)
SpeedReference - DG1/Logic - 61(MUL)

SpeedRPMFactor 1 DINT DG1

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
*SpeedRPMFactor - DG1/EnableInFalse - *21(MOV), *22(MOV), 21(LES), 41(DIV)*
*SpeedRPMFactor - DG1/Logic - *21(MOV), *22(MOV), 21(LES), 41(DIV)*

Speed_RPM	0.0	REAL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>Speed_RPM - DG1/EnableInFalse - *41(DIV), 16(MOV)</i>			
<i>Speed_RPM - DG1/Logic - *41(DIV), *42(MOV), 16(MOV)</i>			
Torque	0.0	REAL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>Torque - DG1/EnableInFalse - *41(DIV), *42(MOV), 16(MOV)</i>			
<i>Torque - DG1/Logic - *41(DIV), *42(MOV), 16(MOV)</i>			
TorqueFactor	10	DINT	DG1
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>TorqueFactor - DG1/EnableInFalse - *23(MOV), *24(MOV), 23(LES), 41(DIV)</i>			
<i>TorqueFactor - DG1/Logic - *23(MOV), *24(MOV), 23(LES), 41(DIV)</i>			
Voltage	0.0	REAL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>Voltage - DG1/EnableInFalse - *41(DIV), *42(MOV), 16(MOV), 43(CPT)</i>			
<i>Voltage - DG1/Logic - *41(DIV), *42(MOV), 16(MOV), 43(CPT)</i>			
Warning	0	BOOL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>Warning - DG1/EnableInFalse - *37(OTE), 7(XIC)</i>			
<i>Warning - DG1/Logic - *37(OTE), 7(XIC)</i>			
ZeroSpeed	0	BOOL	DG1
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>ZeroSpeed - DG1/EnableInFalse - *39(OTE), 9(XIC)</i>			
<i>ZeroSpeed - DG1/Logic - *39(OTE), 9(XIC)</i>			

Name	Default	Data Type	Scope
Control		DG1_Control	DG1
Usage:	Local Tag		
External Access:	Read/Write		
Control.SpeedPercentFactor	0	DINT	
Speed Actual Scale Factor (%)			
<i>Control.SpeedPercentFactor - DG1/EnableInFalse - *0(MOV), *18(MOV), 18(MOV), 18(NEQ)</i>			
<i>Control.SpeedPercentFactor - DG1/Logic - *0(MOV), *18(MOV), 18(MOV), 18(NEQ)</i>			
Control.FrequencyFactor	0	DINT	
Frequency Scale Factor (10)			
<i>Control.FrequencyFactor - DG1/EnableInFalse - *0(MOV), *20(MOV), 20(MOV), 20(NEQ)</i>			
<i>Control.FrequencyFactor - DG1/Logic - *0(MOV), *20(MOV), 20(MOV), 20(NEQ)</i>			
Control.SpeedRPMFactor	0	DINT	
Speed Scale Factor (RPM)			
<i>Control.SpeedRPMFactor - DG1/EnableInFalse - *0(MOV), *22(MOV), 22(MOV), 22(NEQ)</i>			
<i>Control.SpeedRPMFactor - DG1/Logic - *0(MOV), *22(MOV), 22(MOV), 22(NEQ)</i>			
Control.TorqueFactor	0	DINT	
Torque Scale Factor (10)			
<i>Control.TorqueFactor - DG1/EnableInFalse - *0(MOV), *24(MOV), 24(MOV), 24(NEQ)</i>			
<i>Control.TorqueFactor - DG1/Logic - *0(MOV), *24(MOV), 24(MOV), 24(NEQ)</i>			
Control.CurrentFactor	0	DINT	
Current Scale Factor (10)			
<i>Control.CurrentFactor - DG1/EnableInFalse - *0(MOV), *26(MOV), 26(MOV), 26(NEQ)</i>			
<i>Control.CurrentFactor - DG1/Logic - *0(MOV), *26(MOV), 26(MOV), 26(NEQ)</i>			
Control.VoltageFactor	0	DINT	
Motor Voltage Scale Factor (10)			
<i>Control.VoltageFactor - DG1/EnableInFalse - *0(MOV), *28(MOV), 28(MOV), 28(NEQ)</i>			
<i>Control.VoltageFactor - DG1/Logic - *0(MOV), *28(MOV), 28(MOV), 28(NEQ)</i>			
Control.PowerFactor	0	DINT	
Power Scale Factor (1)			
<i>Control.PowerFactor - DG1/EnableInFalse - *0(MOV), *30(MOV), 30(MOV), 30(NEQ)</i>			
<i>Control.PowerFactor - DG1/Logic - *0(MOV), *30(MOV), 30(MOV), 30(NEQ)</i>			
Control.ReferenceFactor	0	DINT	
Speed Reference Scale Factor (10)			
<i>Control.ReferenceFactor - DG1/EnableInFalse - *0(MOV), *32(MOV), 32(MOV), 32(NEQ)</i>			
<i>Control.ReferenceFactor - DG1/Logic - *0(MOV), *32(MOV), 32(MOV), 32(NEQ)</i>			
Control.SpeedReference	0.0	REAL	
Speed Cmd (RPM)			
FS_ONS	0	BOOL	DG1
Usage:	Local Tag		
External Access:	None		
<i>FS_ONS - DG1/EnableInFalse - *0(ONS)</i>			
<i>FS_ONS - DG1/Logic - *0(ONS)</i>			
Status		DG1_Status	DG1
Usage:	Local Tag		
External Access:	Read Only		
Status.EnableIn	0	BOOL	
Enabled			
<i>Status.EnableIn - DG1/EnableInFalse - *1(OTU)</i>			
<i>Status.EnableIn - DG1/Logic - *1(OTE)</i>			
Status.NetCtrl	0	BOOL	
<i>Status.NetCtrl - DG1/EnableInFalse - *14(OTE)</i>			
<i>Status.NetCtrl - DG1/Logic - *14(OTE)</i>			
Status.NetRef	0	BOOL	
<i>Status.NetRef - DG1/EnableInFalse - *15(OTE)</i>			
<i>Status.NetRef - DG1/Logic - *15(OTE)</i>			
Status.Speed	0.0	REAL	
Speed RPM			
<i>Status.Speed - DG1/EnableInFalse - *16(MOV)</i>			
<i>Status.Speed - DG1/Logic - *16(MOV)</i>			
Status.Frequency	0.0	REAL	

Status (Continued)

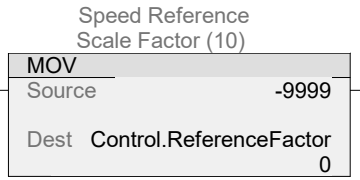
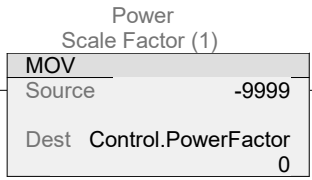
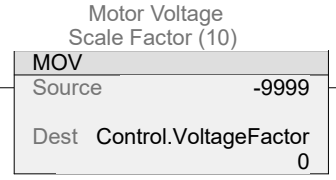
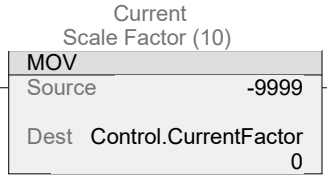
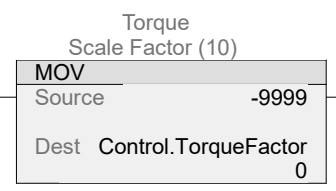
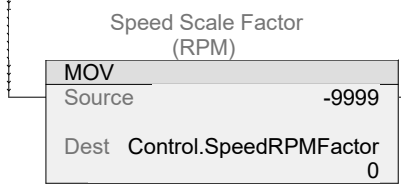
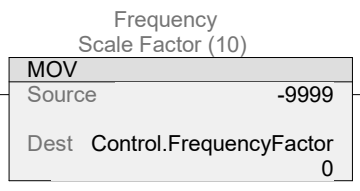
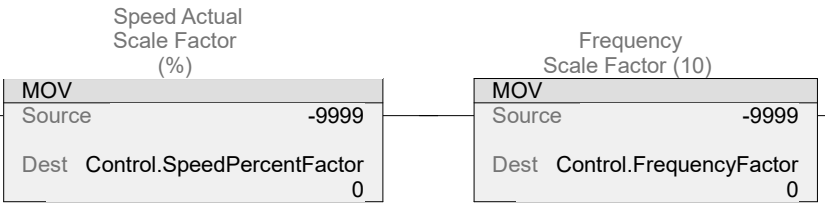
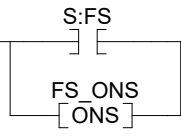
Frequency		
<i>Status.Frequency - DG1/EnableInFalse - *16(MOV)</i>		
<i>Status.Frequency - DG1/Logic - *16(MOV)</i>		
Status.Speed_RPM	0.0	REAL
Speed RPM		
<i>Status.Speed_RPM - DG1/EnableInFalse - *16(MOV)</i>		
<i>Status.Speed_RPM - DG1/Logic - *16(MOV)</i>		
Status.Current	0.0	REAL
Current		
<i>Status.Current - DG1/EnableInFalse - *16(MOV)</i>		
<i>Status.Current - DG1/Logic - *16(MOV)</i>		
Status.Torque	0.0	REAL
Torque		
<i>Status.Torque - DG1/EnableInFalse - *16(MOV)</i>		
<i>Status.Torque - DG1/Logic - *16(MOV)</i>		
Status.Power	0.0	REAL
Power		
<i>Status.Power - DG1/EnableInFalse - *16(MOV)</i>		
<i>Status.Power - DG1/Logic - *16(MOV)</i>		
Status.InputPower	0.0	REAL
Calculated Input Power		
<i>Status.InputPower - DG1/EnableInFalse - *16(MOV)</i>		
<i>Status.InputPower - DG1/Logic - *16(MOV)</i>		
Status.Voltage	0.0	REAL
Motor Voltage		
<i>Status.Voltage - DG1/EnableInFalse - *16(MOV)</i>		
<i>Status.Voltage - DG1/Logic - *16(MOV)</i>		
Status.FaultCode	0	DINT
Last Active Fault Code		
<i>Status.FaultCode - DG1/EnableInFalse - *16(MOV)</i>		
<i>Status.FaultCode - DG1/Logic - *16(MOV)</i>		
Status.Binary	0	DINT
Binary External DI / DO Status		
<i>Status.Binary - DG1/EnableInFalse - *16(MOV)</i>		
<i>Status.Binary - DG1/Logic - *16(MOV)</i>		
Status.Ready	0	BOOL
Ready		
<i>Status.Ready - DG1/EnableInFalse - *3(OTE)</i>		
<i>Status.Ready - DG1/Logic - *3(OTE)</i>		
Status.Running	0	BOOL
Running		
<i>Status.Running - DG1/EnableInFalse - *4(OTE)</i>		
<i>Status.Running - DG1/Logic - *4(OTE)</i>		
Status.Direction	0	BOOL
0 = Forward 1 = Reverse		
<i>Status.Direction - DG1/EnableInFalse - *5(OTE)</i>		
<i>Status.Direction - DG1/Logic - *5(OTE)</i>		
Status.Faulted	0	BOOL
Faulted		
<i>Status.Faulted - DG1/EnableInFalse - *6(OTE)</i>		
<i>Status.Faulted - DG1/Logic - *6(OTE)</i>		
Status.Remote	0	BOOL
Remote		
Status.Comm_Fault	0	BOOL
Comm Fault		
<i>Status.Comm_Fault - DG1/EnableInFalse - *2(OTE)</i>		
<i>Status.Comm_Fault - DG1/Logic - *2(OTE)</i>		
Status.Warning	0	BOOL
Warning		
<i>Status.Warning - DG1/EnableInFalse - *7(OTE)</i>		
<i>Status.Warning - DG1/Logic - *7(OTE)</i>		
Status.At_Reference	0	BOOL

Status (Continued)

At Reference			
<i>Status.At_Reference - DG1/EnableInFalse - *8(OTE)</i>			
<i>Status.At_Reference - DG1/Logic - *8(OTE)</i>			
Status.ZeroSpeed	0	BOOL	
Zero Speed			
<i>Status.ZeroSpeed - DG1/EnableInFalse - *9(OTE)</i>			
<i>Status.ZeroSpeed - DG1/Logic - *9(OTE)</i>			
Status.FluxReady	0	BOOL	
Flux Ready = 0 Flux Not Ready = 1			
<i>Status.FluxReady - DG1/EnableInFalse - *10(OTE)</i>			
<i>Status.FluxReady - DG1/Logic - *10(OTE)</i>			
Status.FaultReset	0	BOOL	
<i>Status.FaultReset - DG1/EnableInFalse - *13(OTE)</i>			
<i>Status.FaultReset - DG1/Logic - *13(OTE)</i>			
Status.FwdCmd	0	BOOL	
<i>Status.FwdCmd - DG1/EnableInFalse - *11(OTE)</i>			
<i>Status.FwdCmd - DG1/Logic - *11(OTE)</i>			
Status.RevCmd	0	BOOL	
<i>Status.RevCmd - DG1/EnableInFalse - *12(OTE)</i>			
<i>Status.RevCmd - DG1/Logic - *12(OTE)</i>			
VoltageFactor	10	DINT	DG1
Usage:	Local Tag		
External Access:	Read/Write		
<i>VoltageFactor - DG1/EnableInFalse - *27(MOV), *28(MOV), 27(LES), 41(DIV)</i>			
<i>VoltageFactor - DG1/Logic - *27(MOV), *28(MOV), 27(LES), 41(DIV)</i>			

* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *
** FS_ONS is there for Online project additions when a first scan is not available **

0



This AOI assumes a Power XL DG1 I/O module
Input Assembly Instance 21, Size 10
Output Assembly Instance 127, Size 2
Revision 1.001

Drive Configuration

INPUTS (Drive to Controller)

- 0 - Binary Status Register Input[0].0-7
- 1 - Motor Speed % Input[1]
- 2 - Motor Frequency Input[2]
- 3 - Motor Speed RPM Input[3]
- 4 - Motor Current Input[4]
- 5 - Motor Torque Input[5]
- 6 - Motor Power Input[6]
- 7 - Motor Voltage Input[7]
- 8 - External Binary Status Bits Input[8].0-15
- 9 - Fault Code Input[9]

OUTPUTS (Controller to Drive)

- 0 - Command Register Output[0].0-15
- 1 - Reference Command RPM Output[1]

Enable Input - System Defined Parameter
EnableIn

Enabled Status.**EnableIn**

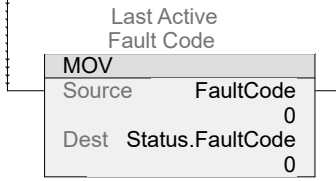
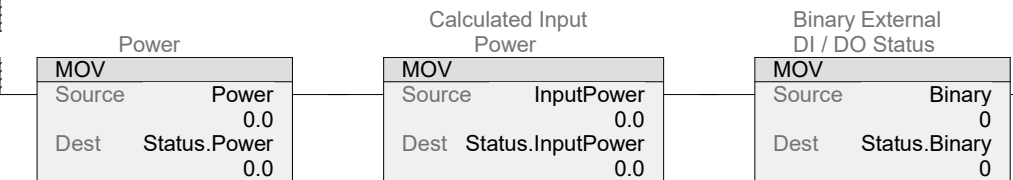
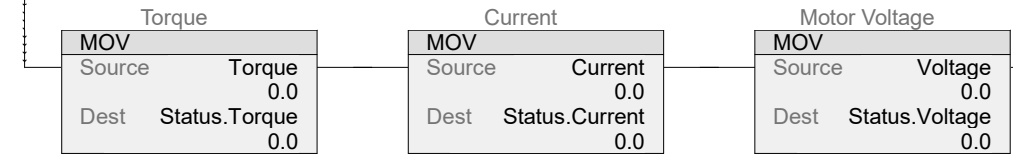
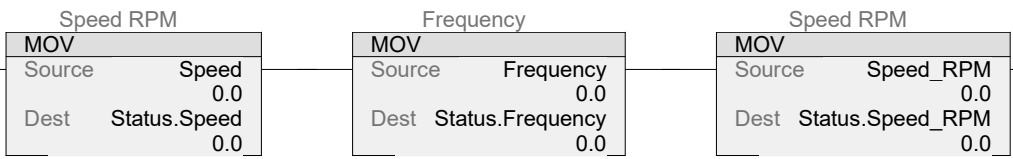
1



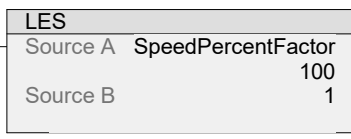
UDT Status Mapping

2	Comm Fault	Comm Fault Status.Comm_Fault
3	Ready	Ready Status.Ready
4	Running	Running Status.Running
5	Direction	0 = Forward 1 = Reverse Status.Direction
6	Faulted	Faulted Status.Faulted
7	Warning	Warning Status.Warning
8	At_Reference	At Reference Status.At_Reference
9	ZeroSpeed	Zero Speed Status.ZeroSpeed
10	FluxReady	Flux Ready = 0 Flux Not Ready = 1 Status.FluxReady
11	FwdCmd	Status.FwdCmd
12	RevCmd	Status.RevCmd
13	FaultReset	Status.FaultReset
14	NetCtrl	Status.NetCtrl
15	NetRef	Status.NetRef

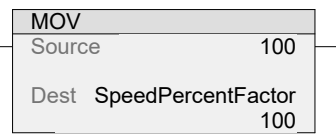
16



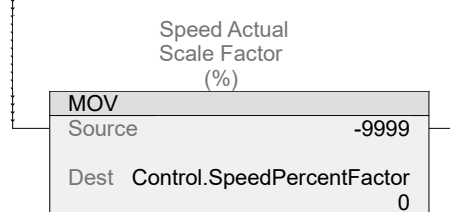
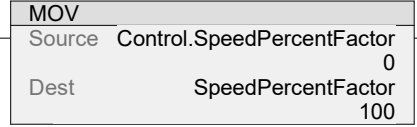
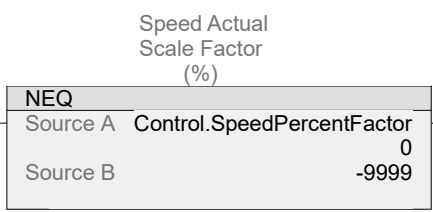
17

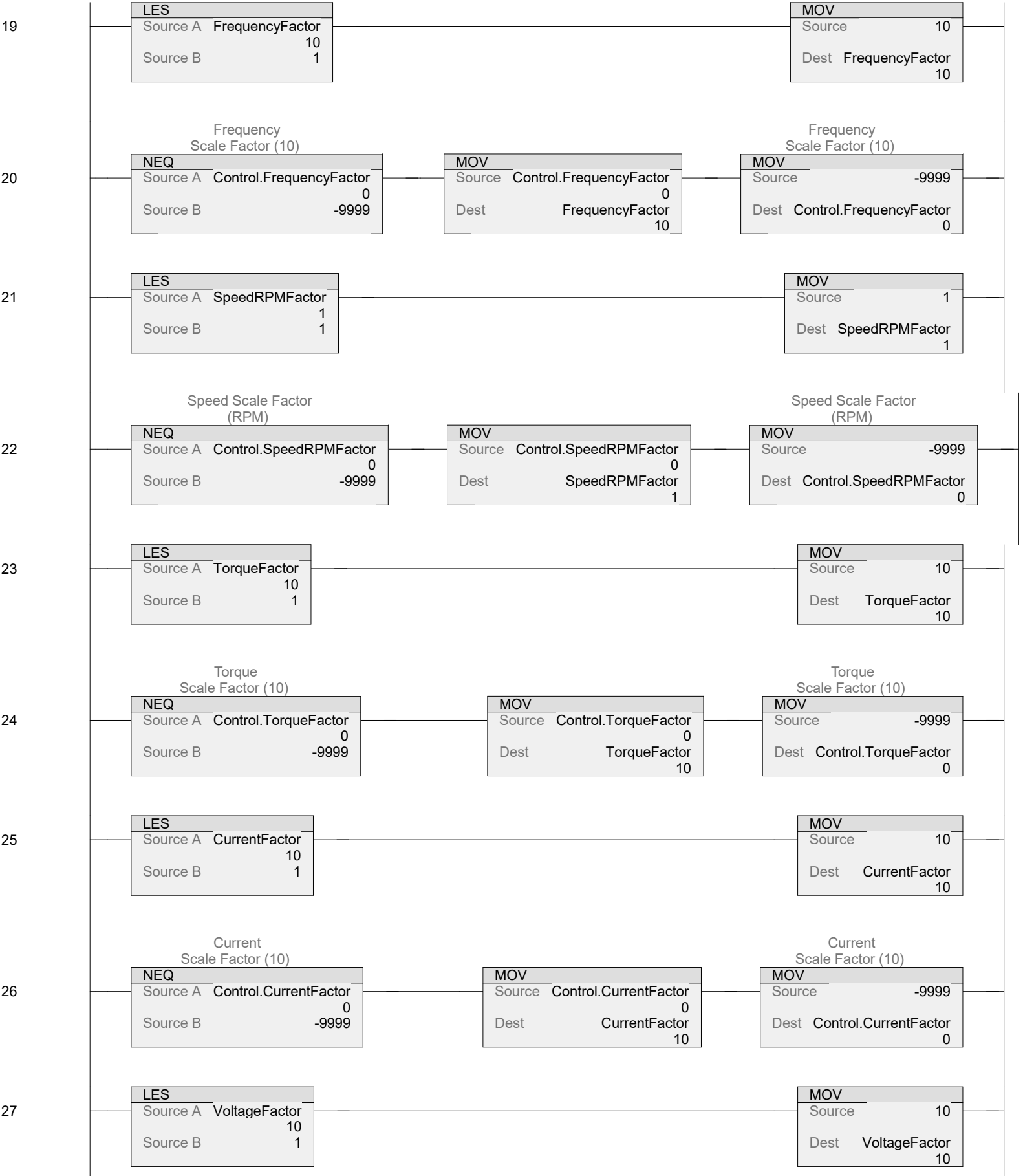


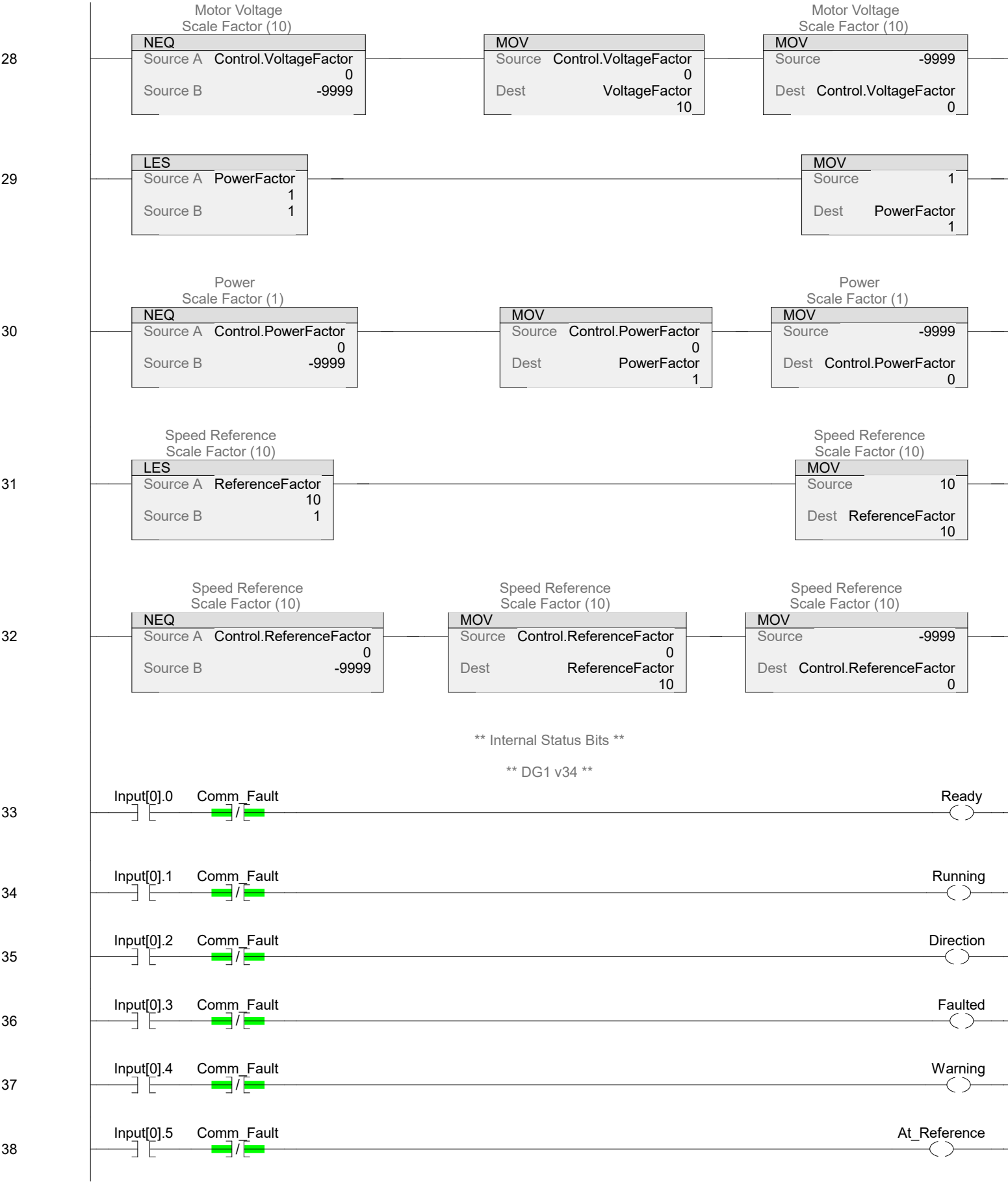
UDT Control Mapping

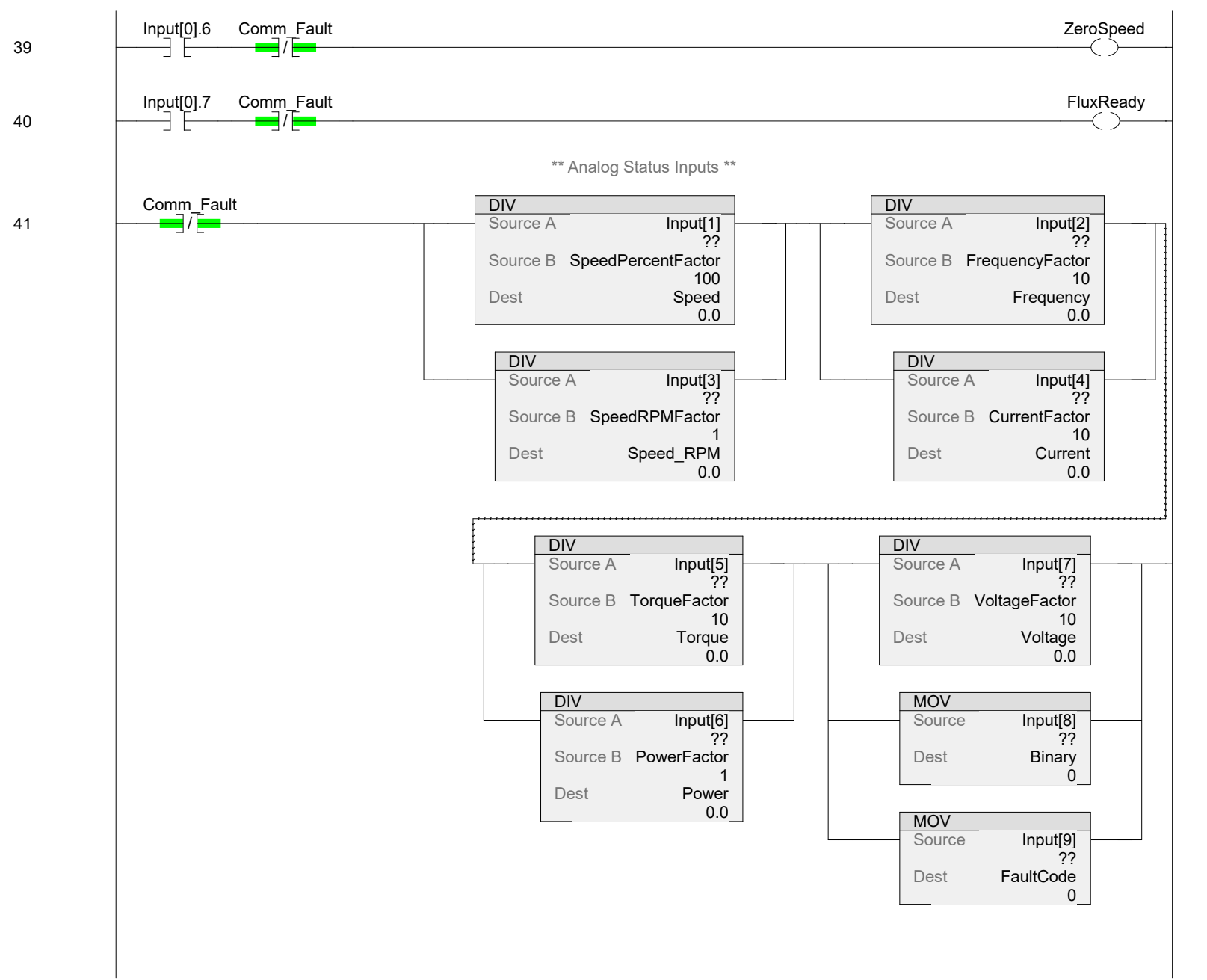


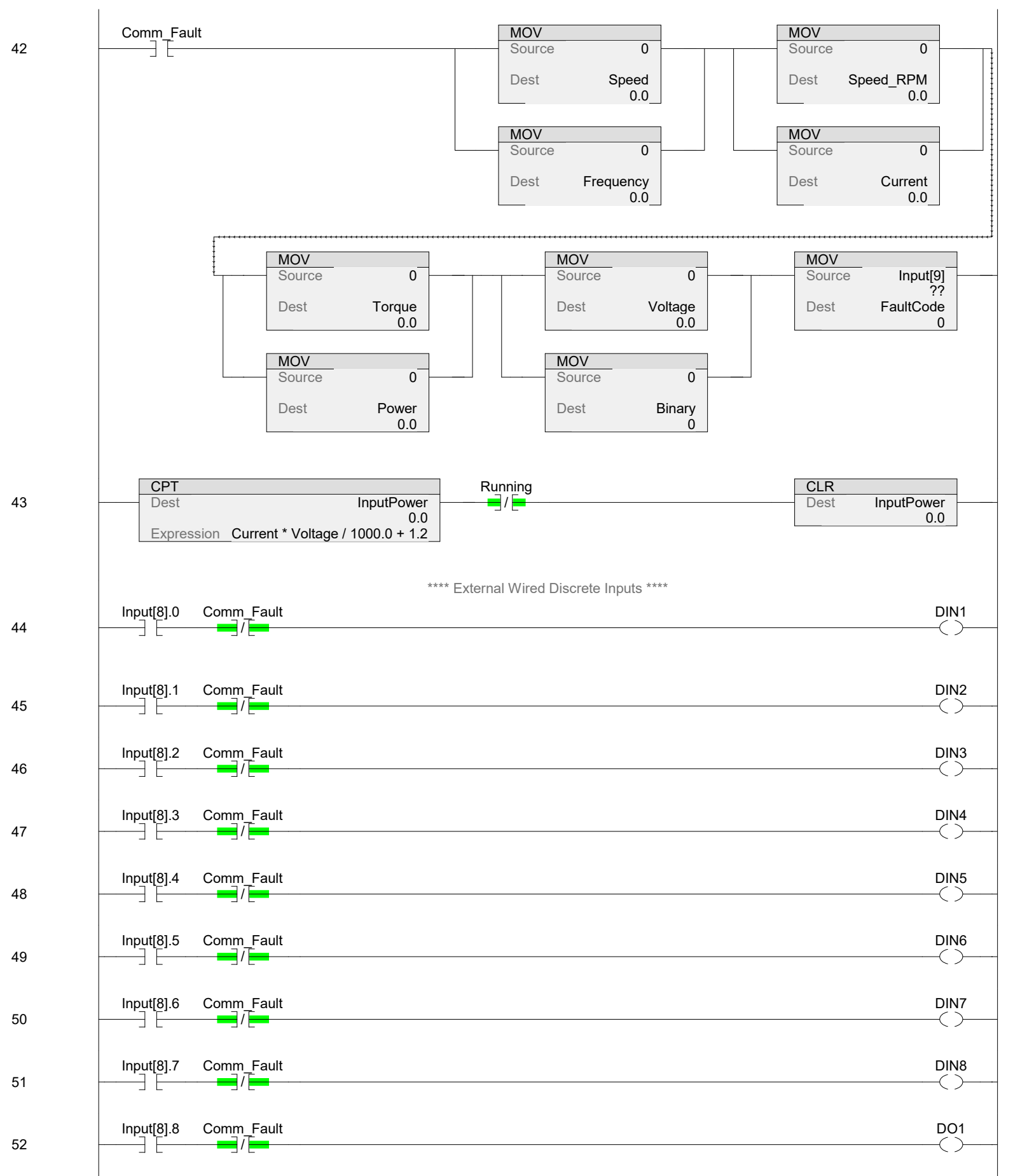
18

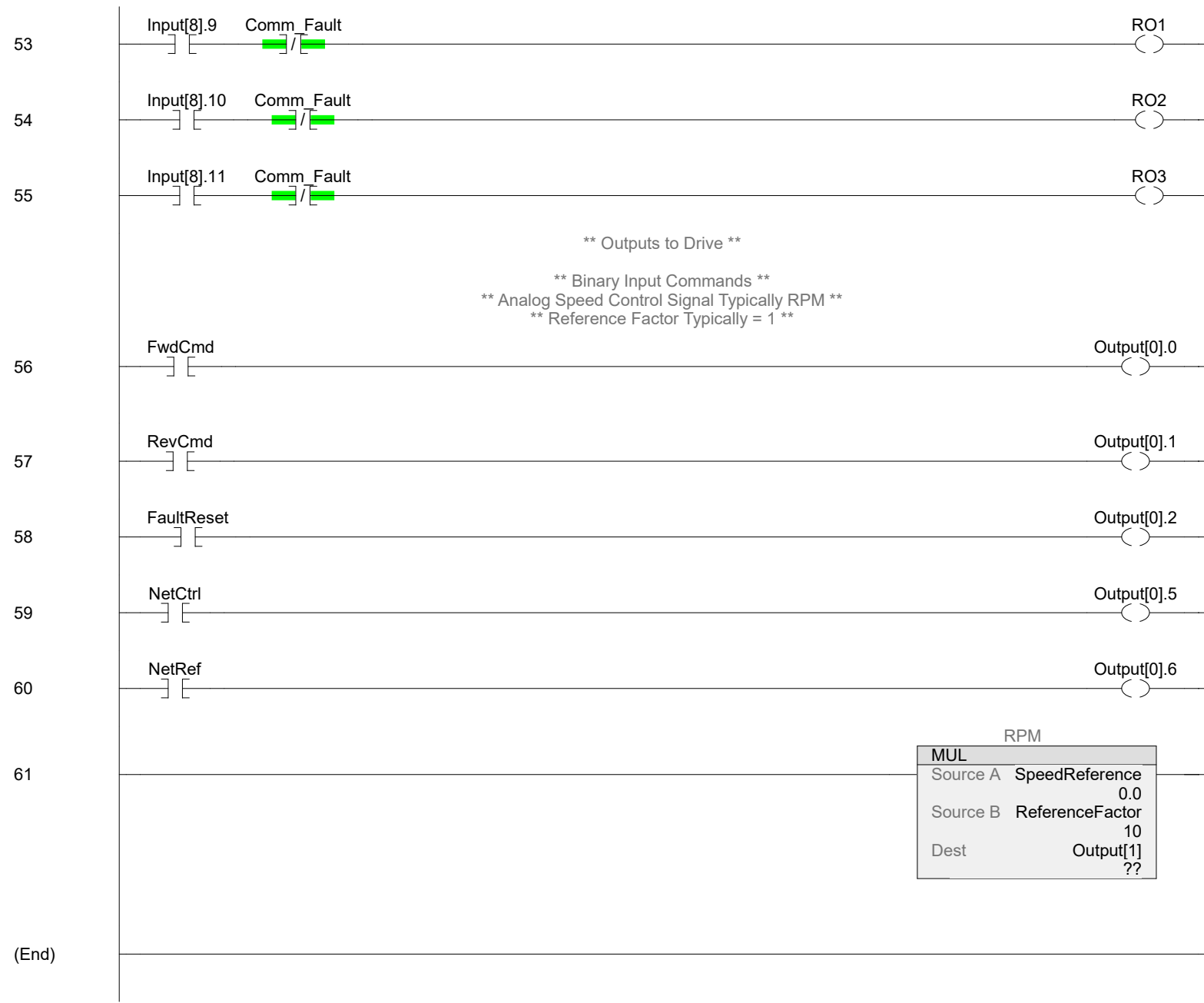






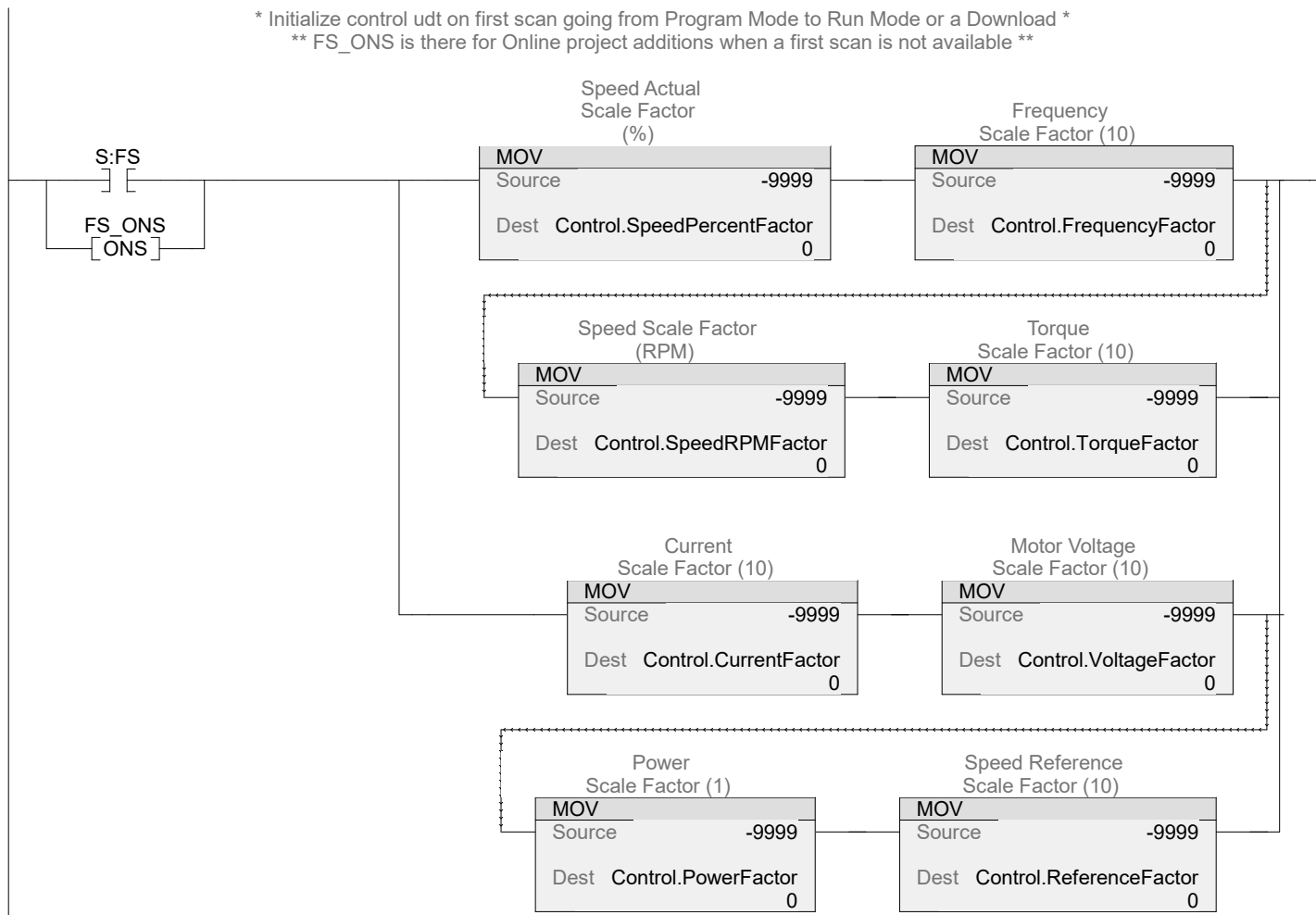






* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *
 ** FS_ONS is there for Online project additions when a first scan is not available **

0



This AOI assumes a Power XL DG1 I/O module
 Input Assembly Instance 21, Size 10
 Output Assembly Instance 127, Size 2
 Revision 1.001

 Drive Configuration

INPUTS (Drive to Controller)

- 0 - Binary Status Register Input[0].0-7
- 1 - Motor Speed % Input[1]
- 2 - Motor Frequency Input[2]
- 3 - Motor Speed RPM Input[3]
- 4 - Motor Current Input[4]
- 5 - Motor Torque Input[5]
- 6 - Motor Power Input[6]
- 7 - Motor Voltage Input[7]
- 8 - External Binary Status Bits Input[8].0-15
- 9 - Fault Code Input[9]

OUTPUTS (Controller to Drive)

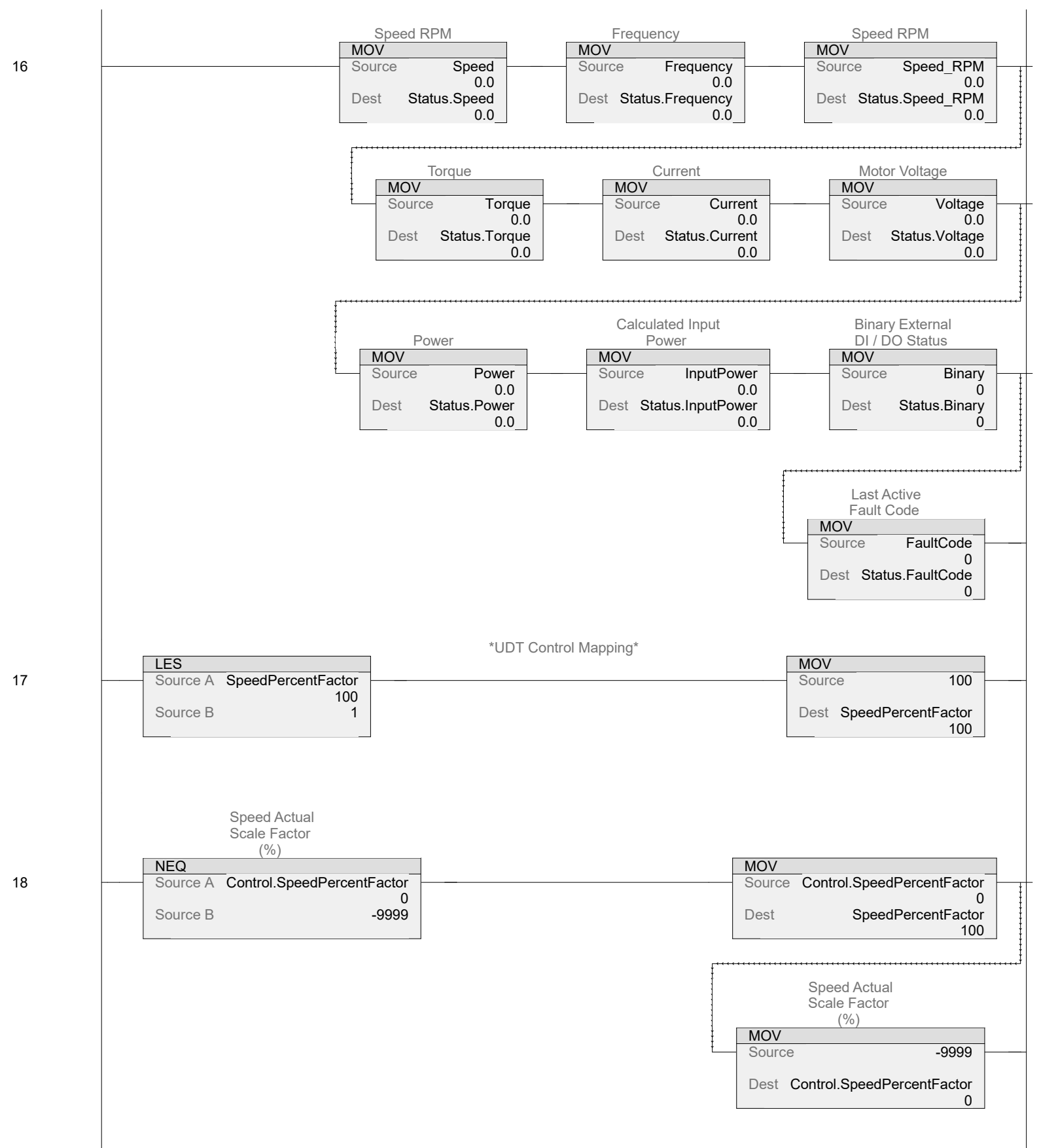
- 0 - Command Register Output[0].0-15
- 1 - Reference Command RPM Output[1]

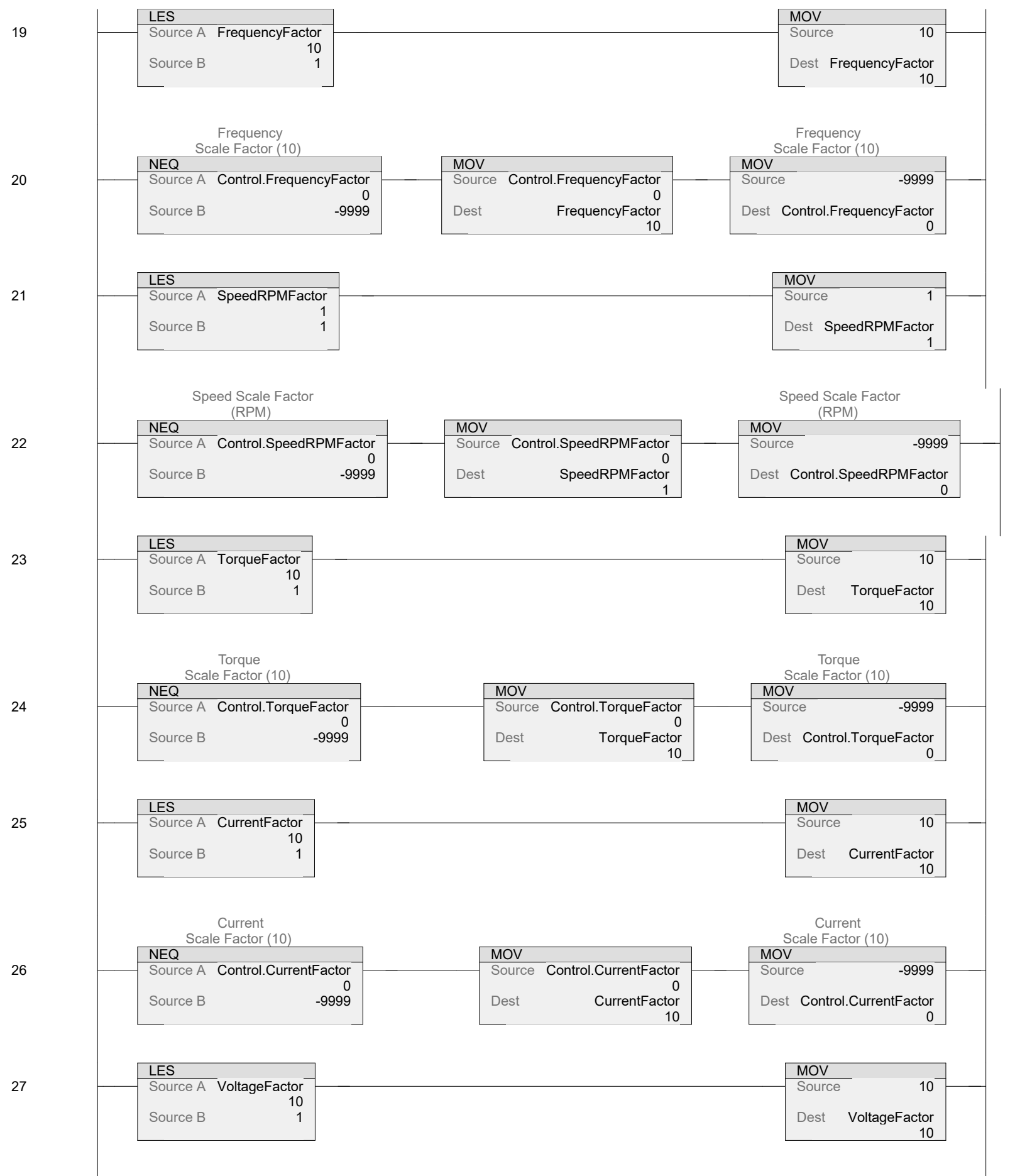
Enabled
 Status.EnableIn
 (U)

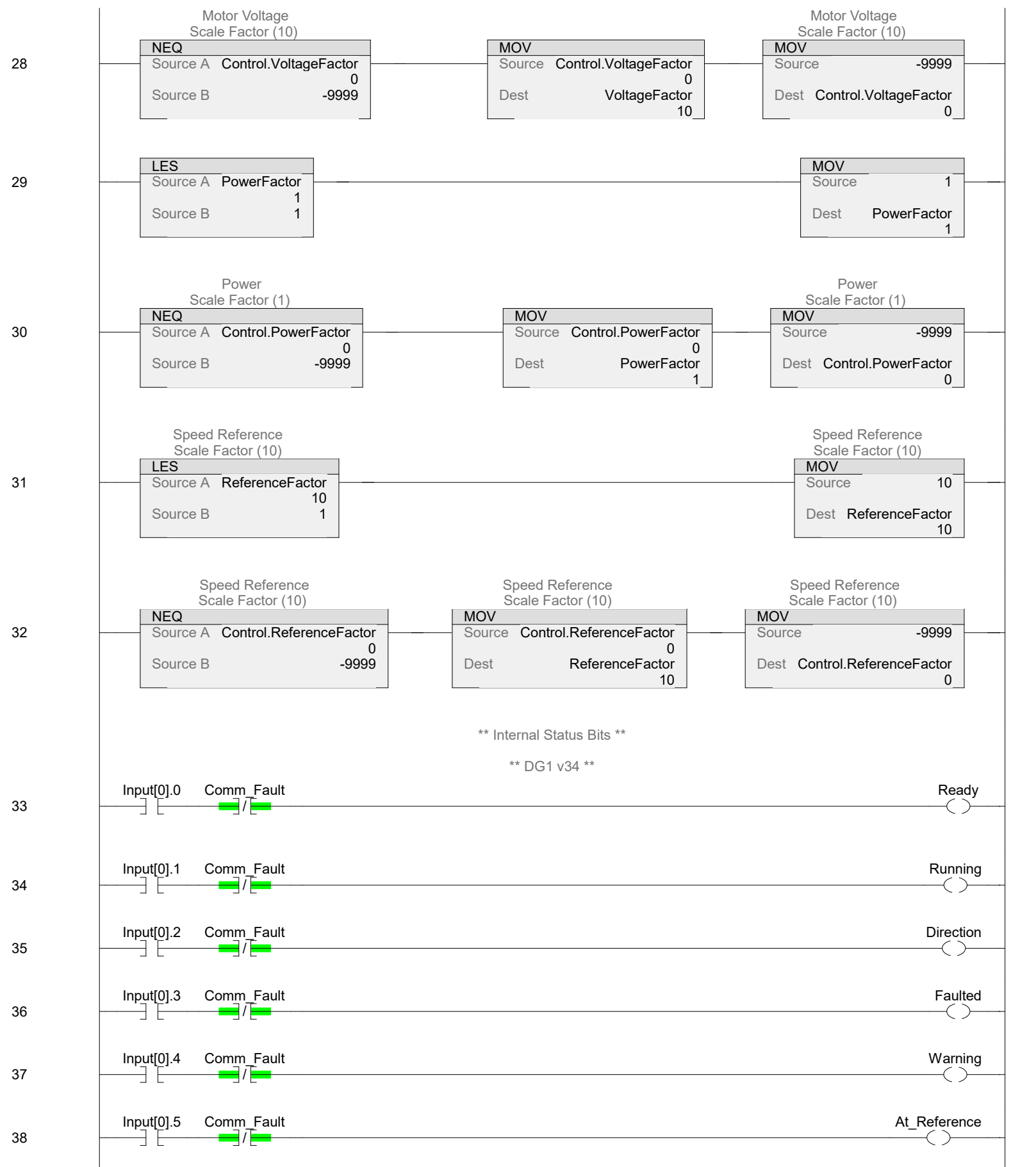
1

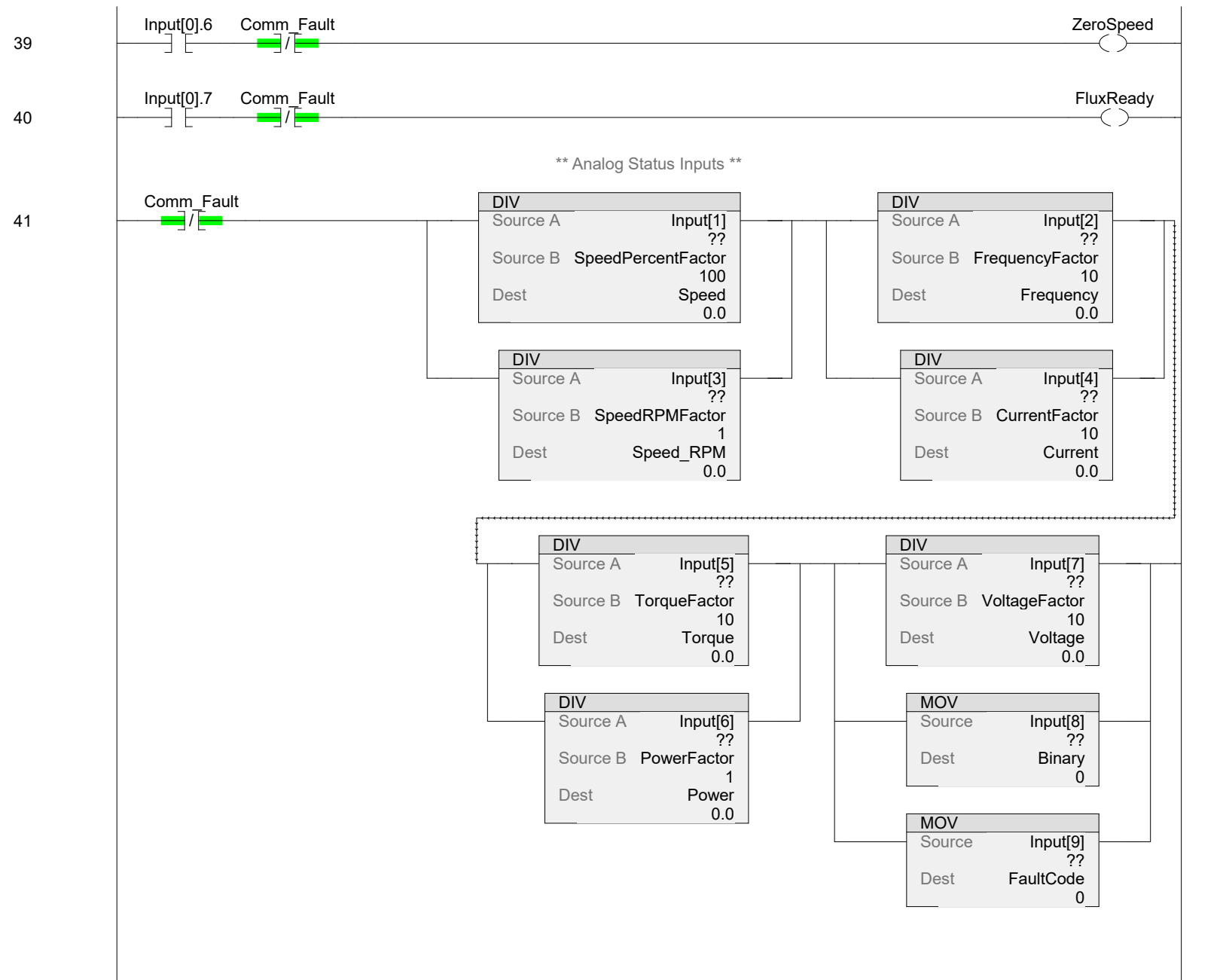
UDT Status Mapping

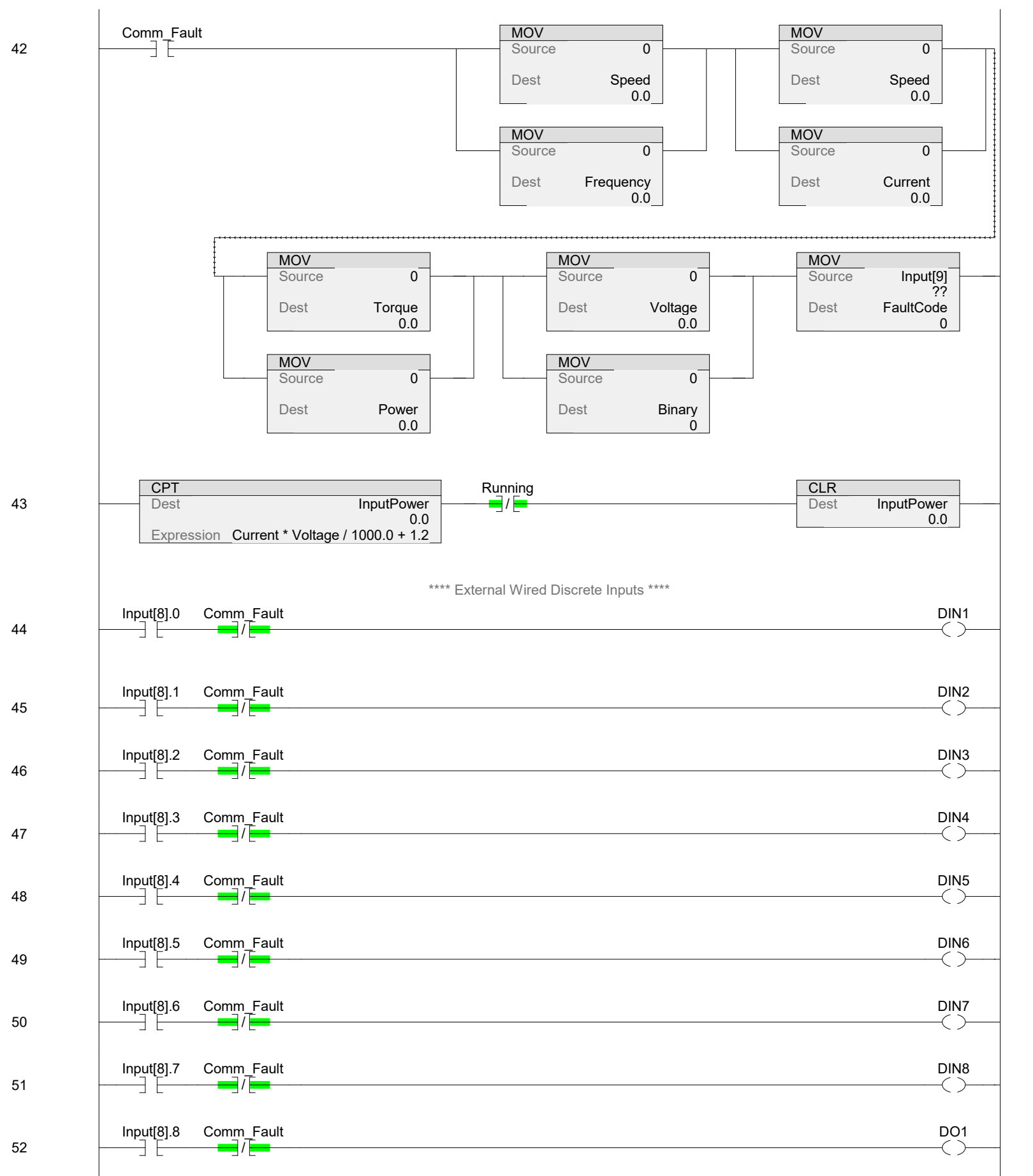


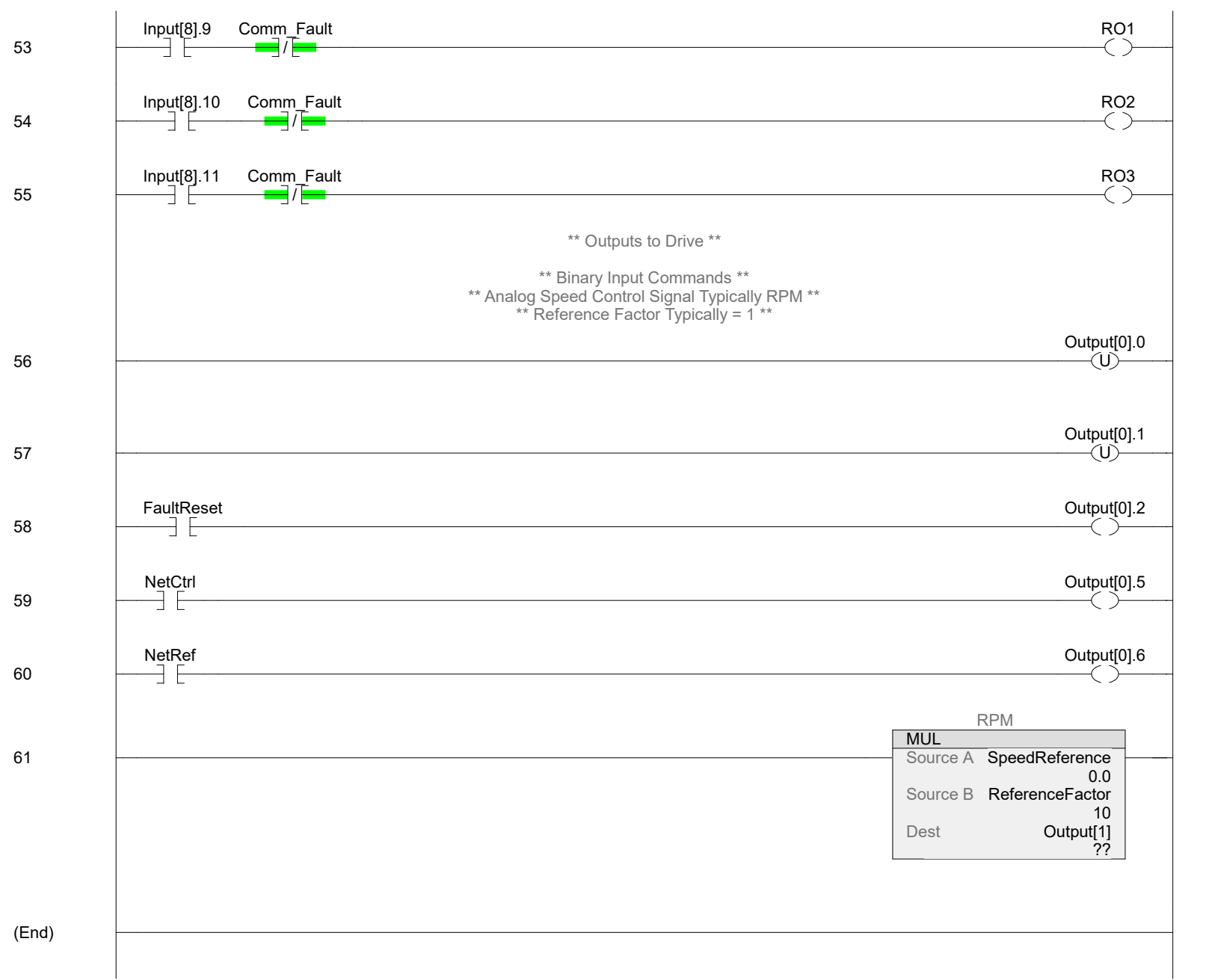












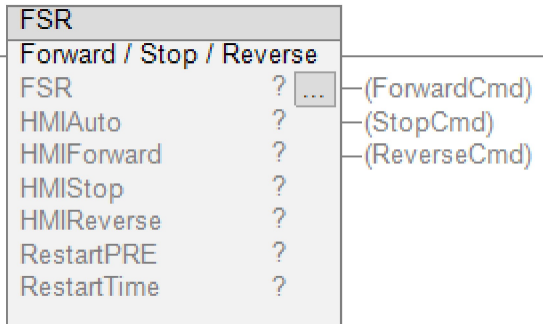
FSR v33.0 First Revision

SKM

Forward / Stop / Reverse

Available Languages

Relay Ladder



Function Block



Structured Text

FSR();

Parameters

Required	Name	Data Type	Usage	Description
X	FSR	FSR	InOut	Forward / Stop / Reverse
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
	HMIAuto	BOOL	Input	HMI Auto
	AutoForward	BOOL	Input	Auto Forward Command
	AutoStop	BOOL	Input	Auto Stop Command
	AutoReverse	BOOL	Input	Auto Reverse Command
	HMIForward	BOOL	Input	HMI Manual Forward
	HMIStop	BOOL	Input	HMI Manual Stop
	HMIRreverse	BOOL	Input	HMI Manual Reverse
	ForwardCmd	BOOL	Output	Forward Command
	StopCmd	BOOL	Output	Stop Command
	ReverseCmd	BOOL	Output	Reverse Command
	RestartActive	BOOL	Output	Restart Delay Active
	RestartPRE	DINT	Input	Restart Delay Preset (Milliseconds)
	RestartTime	DINT	Output	Actual Restart Time (Times Down)

Extended Description

-This routine may be used for Forwarded/Stop/Reverse type controls.

-The HMIForward, HMIStop, and HMIRreverse commands only have effect if HMIAuto is set to 0 (Manual).

-Use the AutoForward, AutoStop, and AutoReverse dot fields accordingly for your application for when the HMIAuto is set to 1 (Auto).

-By default the RestartPRE is set to 0 (disabled) but can be used the set a time delay before a StartCmd can be issued again after it is turned off.

-Reference the RestartActive bit in the block to show when the restart timer is active.

Execution

<u>Condition</u>	<u>Description</u>
------------------	--------------------

EnableIn is false	
-------------------	--

EnableIn is true	
------------------	--

Revision v33.0 First Revision Notes

.0 Implemented Control/Status Local tags to improve comms efficiency

Name	Default	Data Type	Scope
AutoForward	0	BOOL	FSR
Auto Forward Command			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AutoForward - FSR/EnableInFalse - 1(XIC)</i>			
<i>AutoForward - FSR/Logic - 1(XIC), 10(XIC), 11(XIO), 12(XIO)</i>			
AutoReverse	0	BOOL	FSR
Auto Reverse Command			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AutoReverse - FSR/EnableInFalse - 1(XIC)</i>			
<i>AutoReverse - FSR/Logic - 1(XIC), 10(XIO), 11(XIO), 12(XIC)</i>			
AutoStop	0	BOOL	FSR
Auto Stop Command			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AutoStop - FSR/EnableInFalse - 1(XIC)</i>			
<i>AutoStop - FSR/Logic - 1(XIC), 10(XIO), 11(XIC), 12(XIO)</i>			
EnableIn	1	BOOL	FSR
Enable Input - System Defined Parameter			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>EnableIn - FSR/Logic - 1(XIC)</i>			
ForwardCmd	0	BOOL	FSR
Forward Command			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>ForwardCmd - FSR/EnableInFalse - *8(OTU), 1(XIC), 11(XIO)</i>			
<i>ForwardCmd - FSR/Logic - *10(OTE), 1(XIC), 13(XIO), 9(XIO)</i>			
HMIAuto	0	BOOL	FSR
HMI Auto			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIAuto - FSR/EnableInFalse - *3(OTL), *4(OTU), 1(XIC)</i>			
<i>HMIAuto - FSR/Logic - *3(OTL), *4(OTU), 1(XIC), 10(XIC), 10(XIO), 11(XIC), 11(XIO), 12(XIC), 12(XIO)</i>			
HMIForward	0	BOOL	FSR
HMI Manual Forward			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIForward - FSR/EnableInFalse - *15(OTU), 15(XIC)</i>			
<i>HMIForward - FSR/Logic - *17(OTU), *5(OTL), 10(XIC), 11(XIO), 12(XIO), 17(XIC)</i>			

HMIReverse	0	BOOL	FSR
HMI Manual Reverse			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIReverse - FSR/EnableInFalse - *17(OTU), 17(XIC)</i>			
<i>HMIReverse - FSR/Logic - *19(OTU), *7(OTL), 10(XIO), 11(XIO), 12(XIC), 19(XIC)</i>			
HMIStop	0	BOOL	FSR
HMI Manual Stop			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIStop - FSR/EnableInFalse - *16(OTU), *6(OTL), 16(XIC)</i>			
<i>HMIStop - FSR/Logic - *18(OTU), *6(OTL), 10(XIO), 11(XIC), 12(XIO), 18(XIC)</i>			
RestartActive	0	BOOL	FSR
Restart Delay Active			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>RestartActive - FSR/EnableInFalse - *14(OTE), 1(XIC)</i>			
<i>RestartActive - FSR/Logic - *16(OTE), 1(XIC)</i>			
RestartPRE	0	DINT	FSR
Restart Delay Preset (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>RestartPRE - FSR/EnableInFalse - *2(MOV), 1(MOV), 13(MOV)</i>			
<i>RestartPRE - FSR/Logic - *2(MOV), 1(MOV), 15(MOV)</i>			
RestartTime	0	DINT	FSR
Actual Restart Time (Times Down)			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>RestartTime - FSR/EnableInFalse - *18(MOV), *18(SUB), 1(MOV)</i>			
<i>RestartTime - FSR/Logic - *20(MOV), *20(SUB), 1(MOV)</i>			
ReverseCmd	0	BOOL	FSR
Reverse Command			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>ReverseCmd - FSR/EnableInFalse - *10(OTU), 1(XIC), 12(XIO)</i>			
<i>ReverseCmd - FSR/Logic - *12(OTE), 1(XIC), 14(XIO), 8(XIO)</i>			
StopCmd	0	BOOL	FSR
Stop Command			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>StopCmd - FSR/EnableInFalse - *9(OTL), 1(XIC)</i>			
<i>StopCmd - FSR/Logic - *11(OTE), 1(XIC), 11(XIC)</i>			

Name	Default	Data Type	Scope
Control		FSR_Control	FSR
Usage:	Local Tag		
External Access:	Read/Write		
Control.HMIAuto	0	BOOL	
<i>Control.HMIAuto - FSR/EnableInFalse - *0(OTU), *3(OTU), 3(XIC)</i>			
<i>Control.HMIAuto - FSR/Logic - *0(OTU), *3(OTU), 3(XIC)</i>			
Control.HMIManual	0	BOOL	
<i>Control.HMIManual - FSR/EnableInFalse - *0(OTU), *4(OTU), 4(XIC)</i>			
<i>Control.HMIManual - FSR/Logic - *0(OTU), *4(OTU), 4(XIC)</i>			
Control.HMIForward	0	BOOL	
<i>Control.HMIForward - FSR/EnableInFalse - *0(OTU), *5(OTU), 5(XIC)</i>			
<i>Control.HMIForward - FSR/Logic - *0(OTU), *5(OTU), 5(XIC)</i>			
Control.HMIStop	0	BOOL	
<i>Control.HMIStop - FSR/EnableInFalse - *0(OTU), *6(OTU), 6(XIC)</i>			
<i>Control.HMIStop - FSR/Logic - *0(OTU), *6(OTU), 6(XIC)</i>			
Control.HMIRreverse	0	BOOL	
<i>Control.HMIRreverse - FSR/EnableInFalse - *0(OTU), *7(OTU), 7(XIC)</i>			
<i>Control.HMIRreverse - FSR/Logic - *0(OTU), *7(OTU), 7(XIC)</i>			
Control.RestartPRE	0	DINT	
<i>Control.RestartPRE - FSR/EnableInFalse - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
<i>Control.RestartPRE - FSR/Logic - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
ForRestartOB	0	BOOL	FSR
Usage:	Local Tag		
External Access:	Read/Write		
<i>ForRestartOB - FSR/EnableInFalse - *11(OSR), 13(XIO)</i>			
<i>ForRestartOB - FSR/Logic - *13(OSR), 15(XIO)</i>			
ForRestartSB	0	BOOL	FSR
Usage:	Local Tag		
External Access:	Read/Write		
<i>ForRestartSB - FSR/EnableInFalse - *11(OSR)</i>			
<i>ForRestartSB - FSR/Logic - *13(OSR)</i>			
ForwardPermissive		TIMER	FSR
Usage:	Local Tag		
External Access:	Read/Write		
<i>ForwardPermissive - FSR/EnableInFalse - *8(RES)</i>			
<i>ForwardPermissive - FSR/Logic - *8(TON)</i>			
ForwardPermissive.DN	0	BOOL	
<i>ForwardPermissive.DN - FSR/Logic - 10(XIC)</i>			
ForwardSI	0	BOOL	FSR
Forward Seal In			
Usage:	Local Tag		
External Access:	Read/Write		
<i>ForwardSI - FSR/EnableInFalse - *8(OTU)</i>			
<i>ForwardSI - FSR/Logic - *10(OTE), 10(XIC)</i>			
FS_ONS	0	BOOL	FSR
Usage:	Local Tag		
External Access:	None		
<i>FS_ONS - FSR/EnableInFalse - *0(ONS)</i>			
<i>FS_ONS - FSR/Logic - *0(ONS)</i>			
RestartTimer		TIMER	FSR
Usage:	Local Tag		
External Access:	Read/Write		
<i>RestartTimer - FSR/EnableInFalse - *13(TON)</i>			
<i>RestartTimer - FSR/Logic - *15(TON)</i>			
RestartTimer.PRE	0	DINT	
<i>RestartTimer.PRE - FSR/EnableInFalse - *13(MOV), 18(SUB)</i>			

RestartTimer (Continued)

*RestartTimer.PRE - FSR/Logic - *15(MOV), 20(SUB)*

RestartTimer.ACC 0 DINT

RestartTimer.ACC - FSR/EnableInFalse - 18(SUB)

RestartTimer.ACC - FSR/Logic - 20(SUB)

RestartTimer.TT 0 BOOL

RestartTimer.TT - FSR/EnableInFalse - 14(XIC), 18(XIC), 18(XIO)

RestartTimer.TT - FSR/Logic - 16(XIC), 20(XIC), 20(XIO)

RestartTimer.DN 0 BOOL

RestartTimer.DN - FSR/Logic - 10(XIC), 12(XIC)

ReversePermissive TIMER FSR

Usage: Local Tag

External Access: Read/Write

*ReversePermissive - FSR/EnableInFalse - *10(RES)*

*ReversePermissive - FSR/Logic - *9(TON)*

ReversePermissive.DN 0 BOOL

ReversePermissive.DN - FSR/Logic - 12(XIC)

ReverseSI 0 BOOL FSR

Reverse Seal In

Usage: Local Tag

External Access: Read/Write

*ReverseSI - FSR/EnableInFalse - *10(OTU)*

*ReverseSI - FSR/Logic - *12(OTE), 12(XIC)*

RevRestartOB 0 BOOL FSR

Usage: Local Tag

External Access: Read/Write

*RevRestartOB - FSR/EnableInFalse - *12(OSR), 13(XIO)*

*RevRestartOB - FSR/Logic - *14(OSR), 15(XIO)*

RevRestartSB 0 BOOL FSR

Usage: Local Tag

External Access: Read/Write

*RevRestartSB - FSR/EnableInFalse - *12(OSR)*

*RevRestartSB - FSR/Logic - *14(OSR)*

Status FSR_Status FSR

Usage: Local Tag

External Access: Read Only

Status.EnableIn 0 BOOL

*Status.EnableIn - FSR/EnableInFalse - *1(OTU)*

*Status.EnableIn - FSR/Logic - *1(OTE)*

Status.HMIAuto 0 BOOL

*Status.HMIAuto - FSR/EnableInFalse - *1(OTE)*

*Status.HMIAuto - FSR/Logic - *1(OTE)*

Status.AutoForward 0 BOOL

*Status.AutoForward - FSR/EnableInFalse - *1(OTE)*

*Status.AutoForward - FSR/Logic - *1(OTE)*

Status.AutoStop 0 BOOL

*Status.AutoStop - FSR/EnableInFalse - *1(OTE)*

*Status.AutoStop - FSR/Logic - *1(OTE)*

Status.AutoReverse 0 BOOL

*Status.AutoReverse - FSR/EnableInFalse - *1(OTE)*

*Status.AutoReverse - FSR/Logic - *1(OTE)*

Status.ForwardCmd 0 BOOL

*Status.ForwardCmd - FSR/EnableInFalse - *1(OTE)*

*Status.ForwardCmd - FSR/Logic - *1(OTE)*

Status.StopCmd 0 BOOL

*Status.StopCmd - FSR/EnableInFalse - *1(OTE)*

*Status.StopCmd - FSR/Logic - *1(OTE)*

Status.ReverseCmd 0 BOOL

Status (Continued)

*Status.ReverseCmd - FSR/EnableInFalse - *I(OTE)*

*Status.ReverseCmd - FSR/Logic - *I(OTE)*

Status.RestartActive 0 BOOL

*Status.RestartActive - FSR/EnableInFalse - *I(OTE)*

*Status.RestartActive - FSR/Logic - *I(OTE)*

Status.RestartPRE 0 DINT

*Status.RestartPRE - FSR/EnableInFalse - *I(MOV)*

*Status.RestartPRE - FSR/Logic - *I(MOV)*

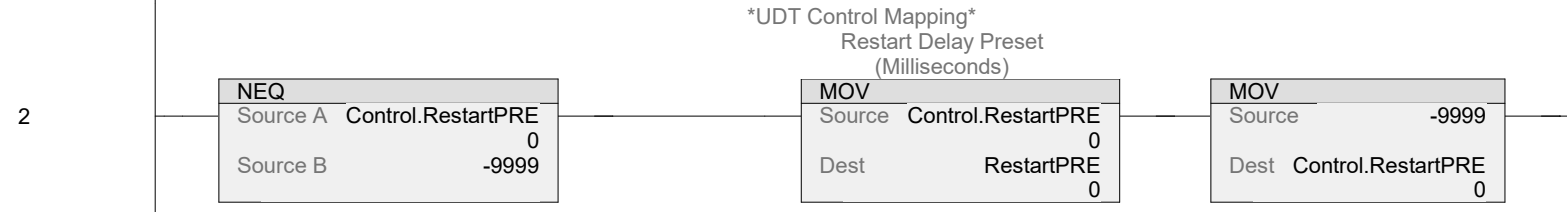
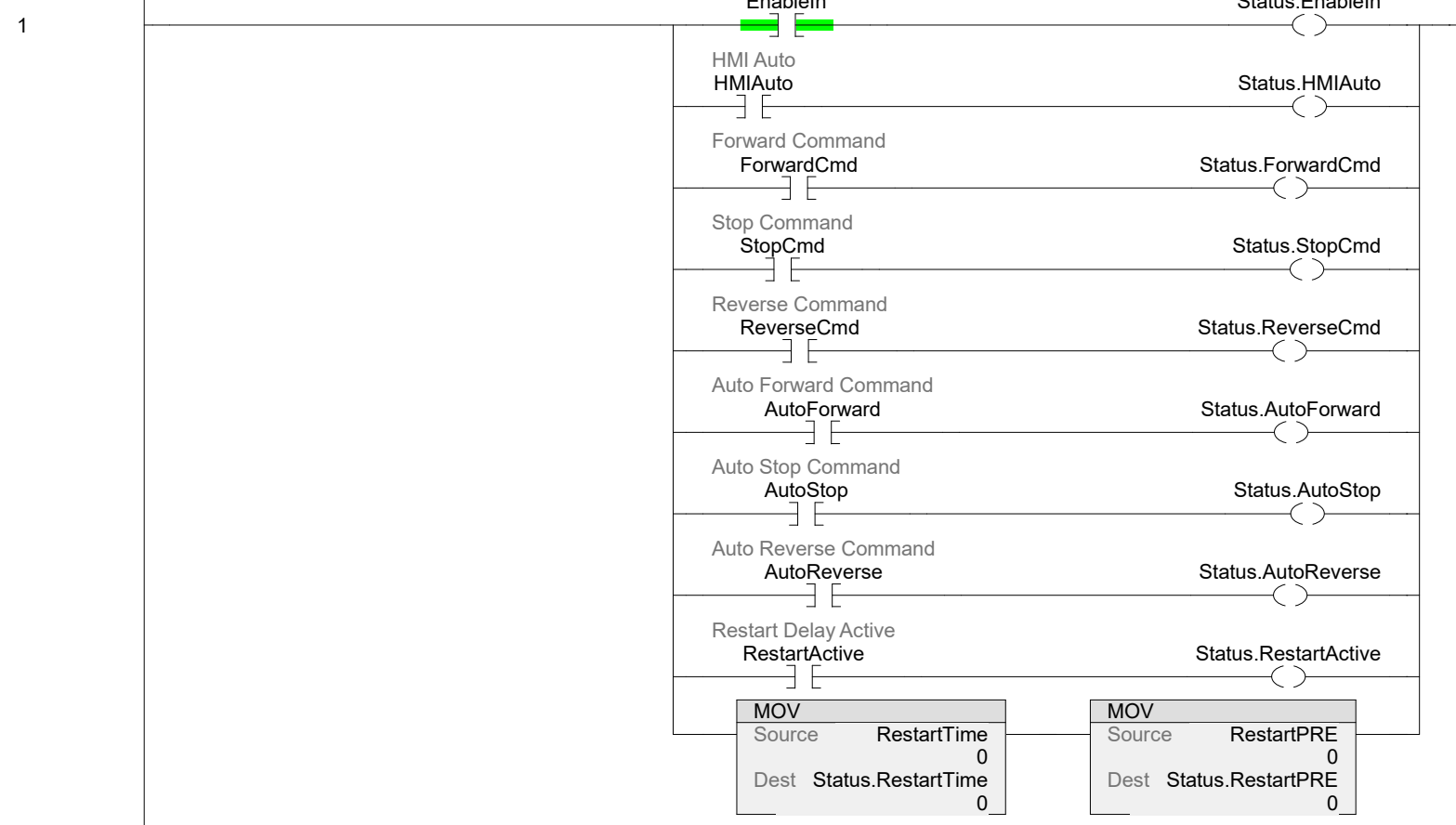
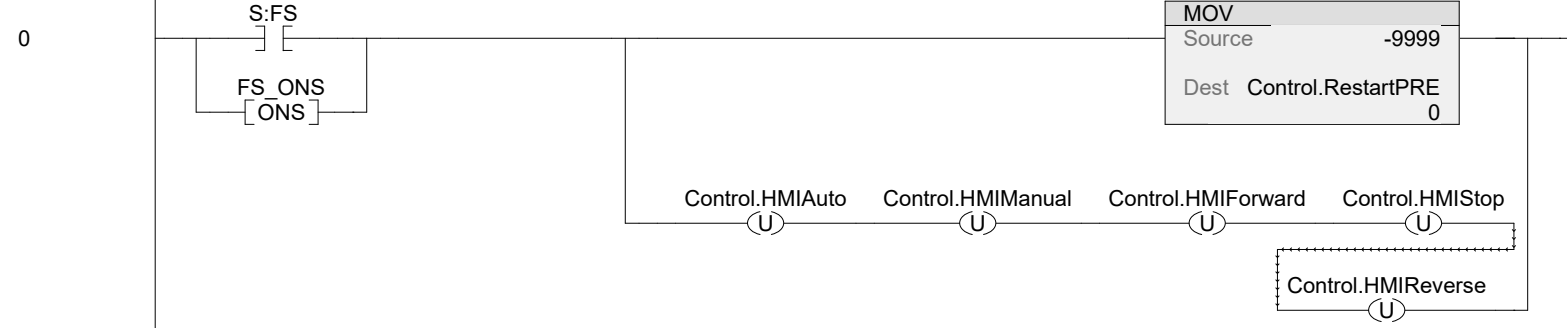
Status.RestartTime 0 DINT

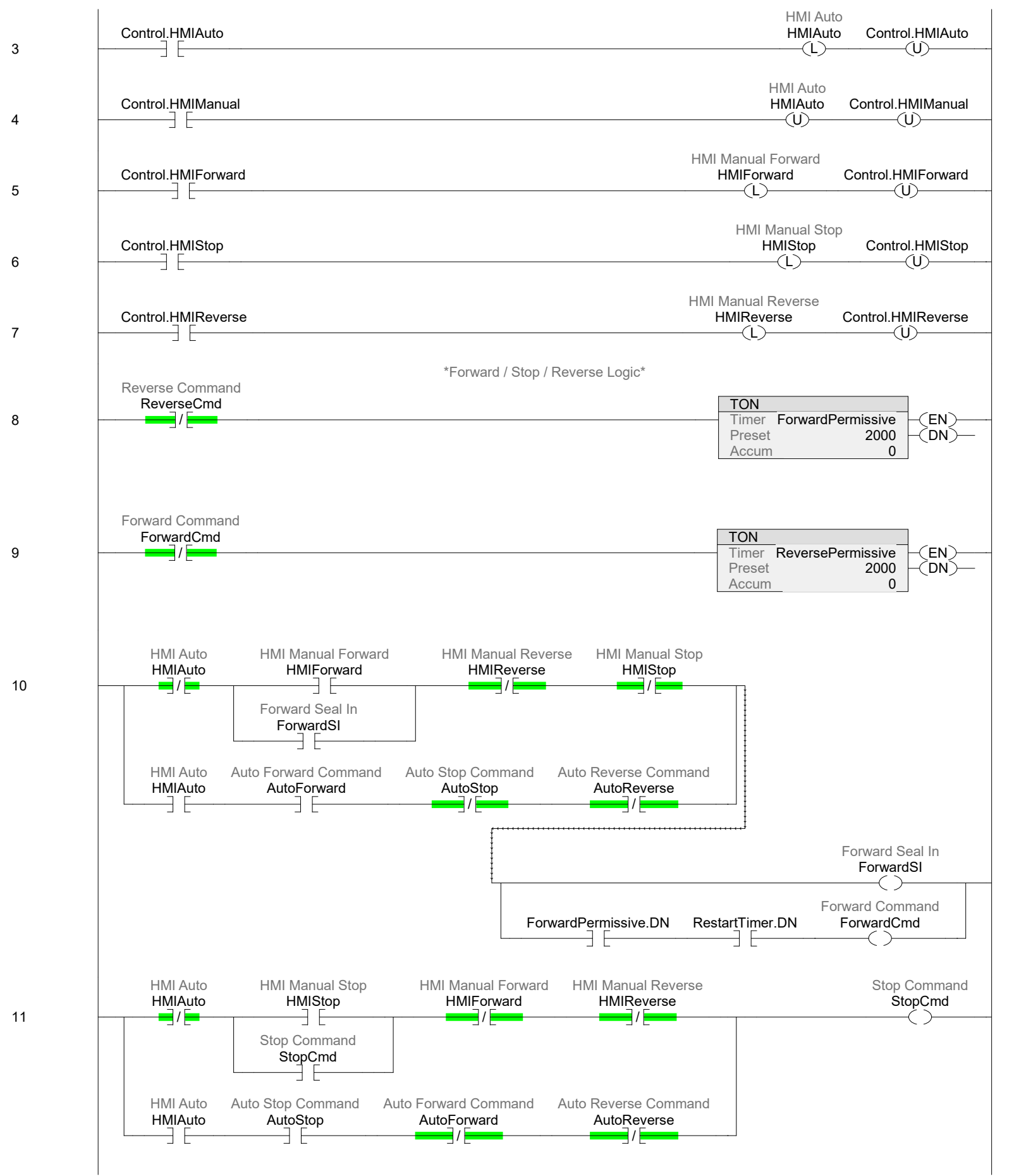
*Status.RestartTime - FSR/EnableInFalse - *I(MOV)*

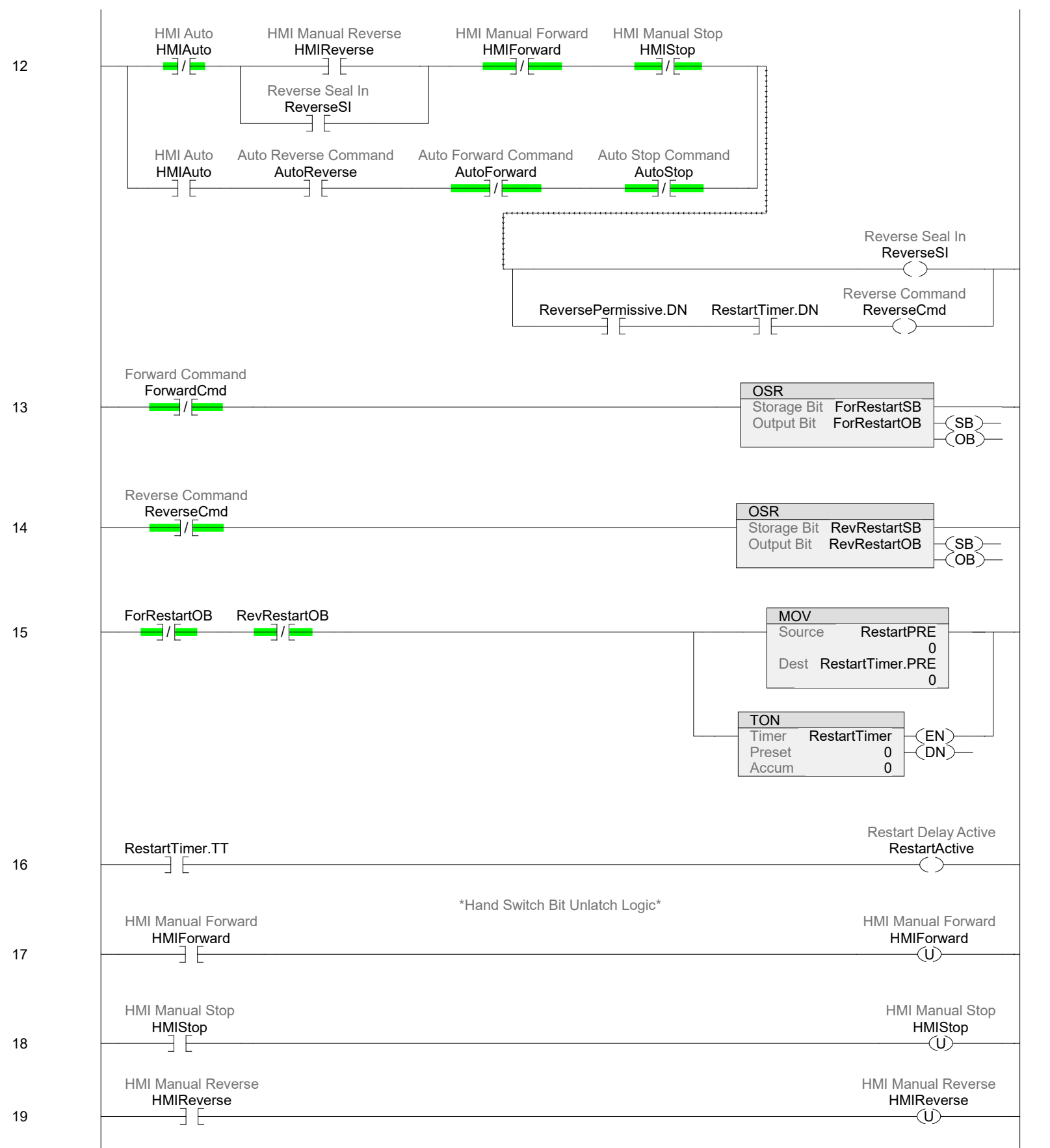
*Status.RestartTime - FSR/Logic - *I(MOV)*

* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *

** FS_ONS is there for Online project additions when a first scan is not available **







Calculate Time Values for Display

20

RestartTimer.TT

Actual Restart Time
(Times Down)

SUB	
Source A	RestartTimer.PRE 0
Source B	RestartTimer.ACC 0
Dest	RestartTime 0

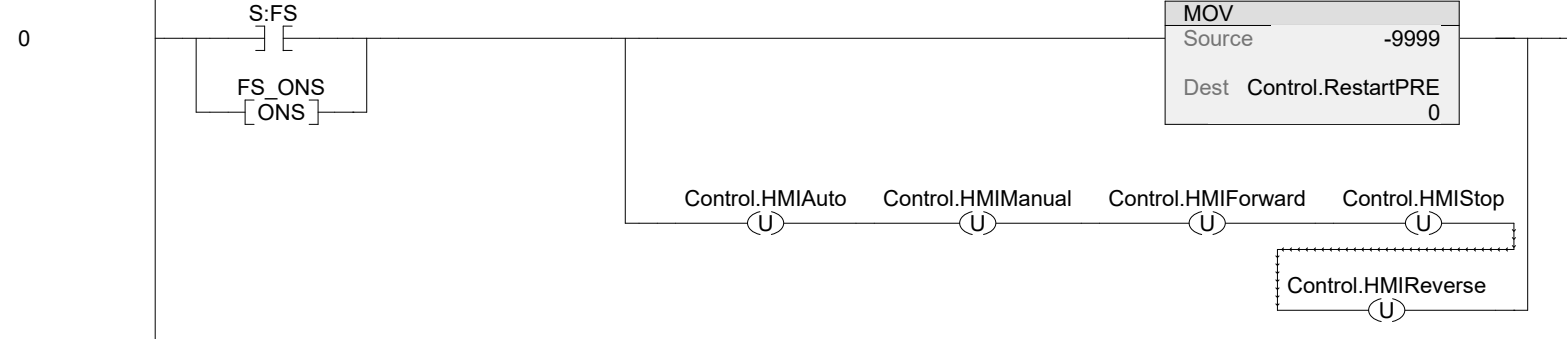
RestartTimer.TT

Actual Restart Time
(Times Down)

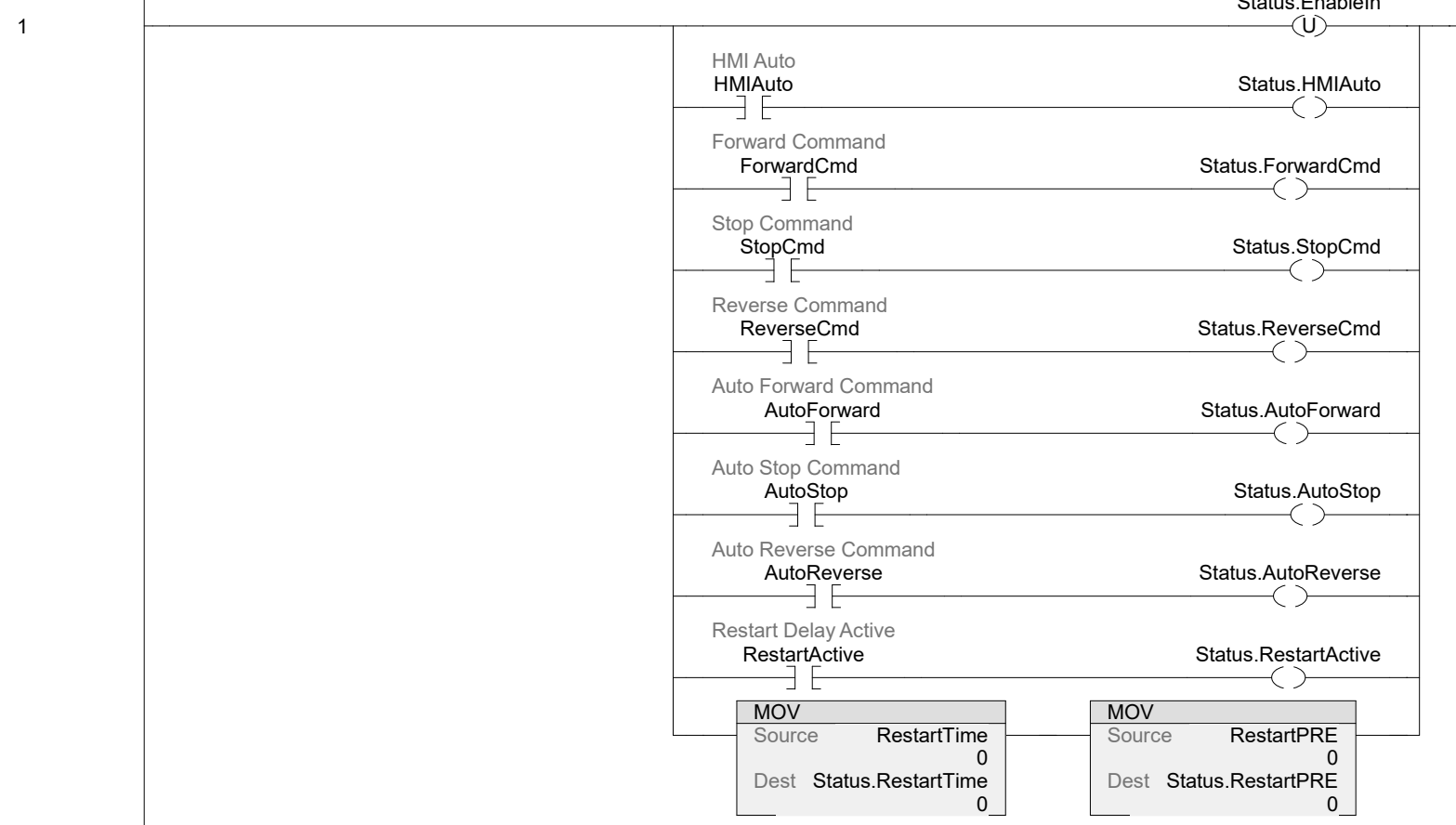
MOV	
Source	0
Dest	RestartTime 0

(End)

* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *
** FS_ONS is there for Online project additions when a first scan is not available **

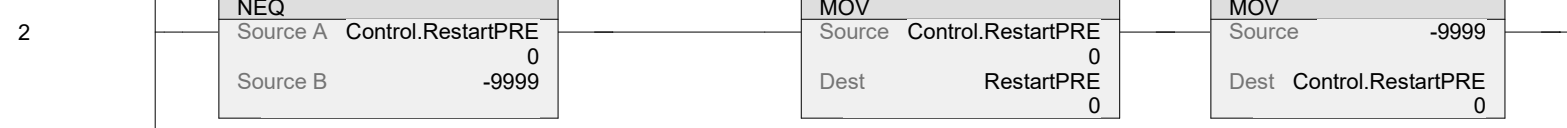


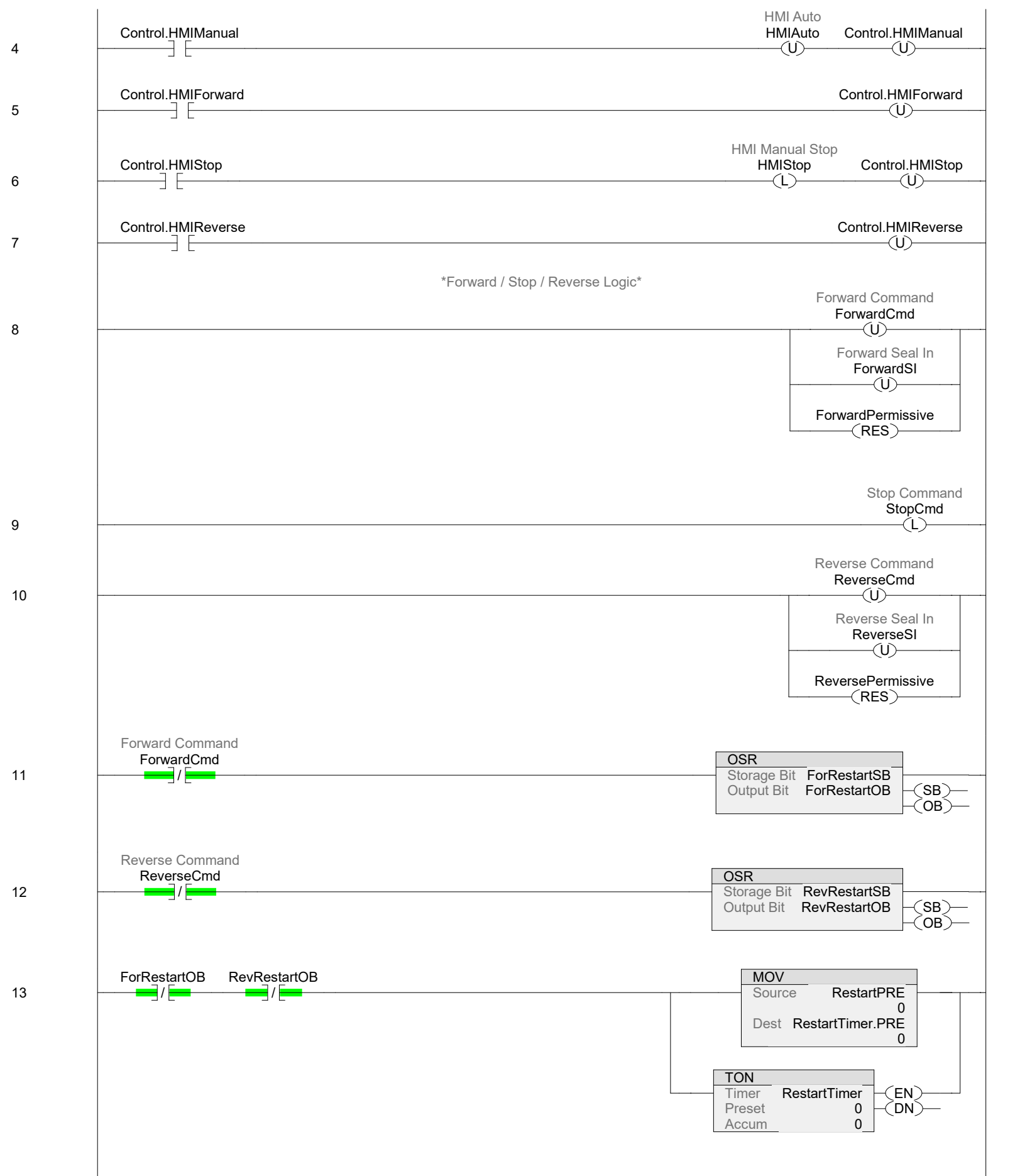
UDT Status Mapping

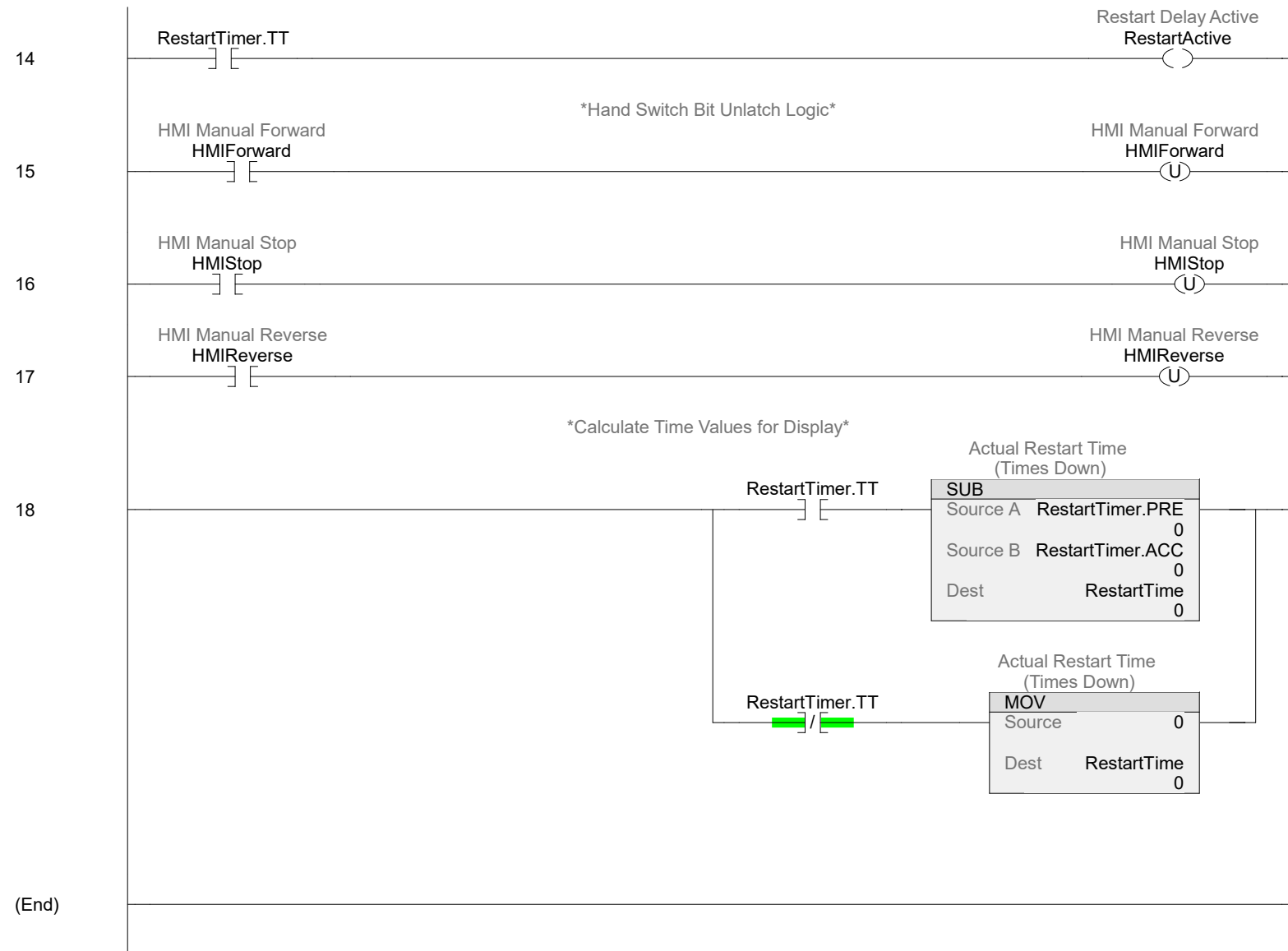


UDT Control Mapping

Restart Delays Preset (Milliseconds)







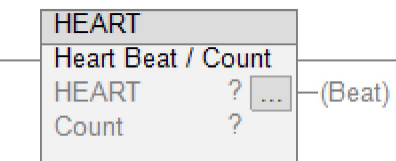
HEART v33.0 First Revision

SKM

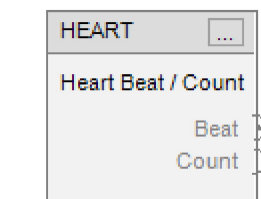
Heart Beat / Count

Available Languages

Relay Ladder



Function Block



Structured Text

HEART();

Parameters

Required	Name	Data Type	Usage	Description
X	HEART	HEART	InOut	Heart Beat / Count
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
	Beat	BOOL	Output	
	Count	DINT	Output	
	BeatSP	DINT	Input	Beat Set Point (Seconds)

Extended Description

Used for communications monitoring by other devices.

-Beat toggles on and off at the BeatSP (default = 5 sec) i.e. on for 5 seconds, then off for 5 seconds.

-Count increments by one every second up to 32767, then restarts from 0.

Execution

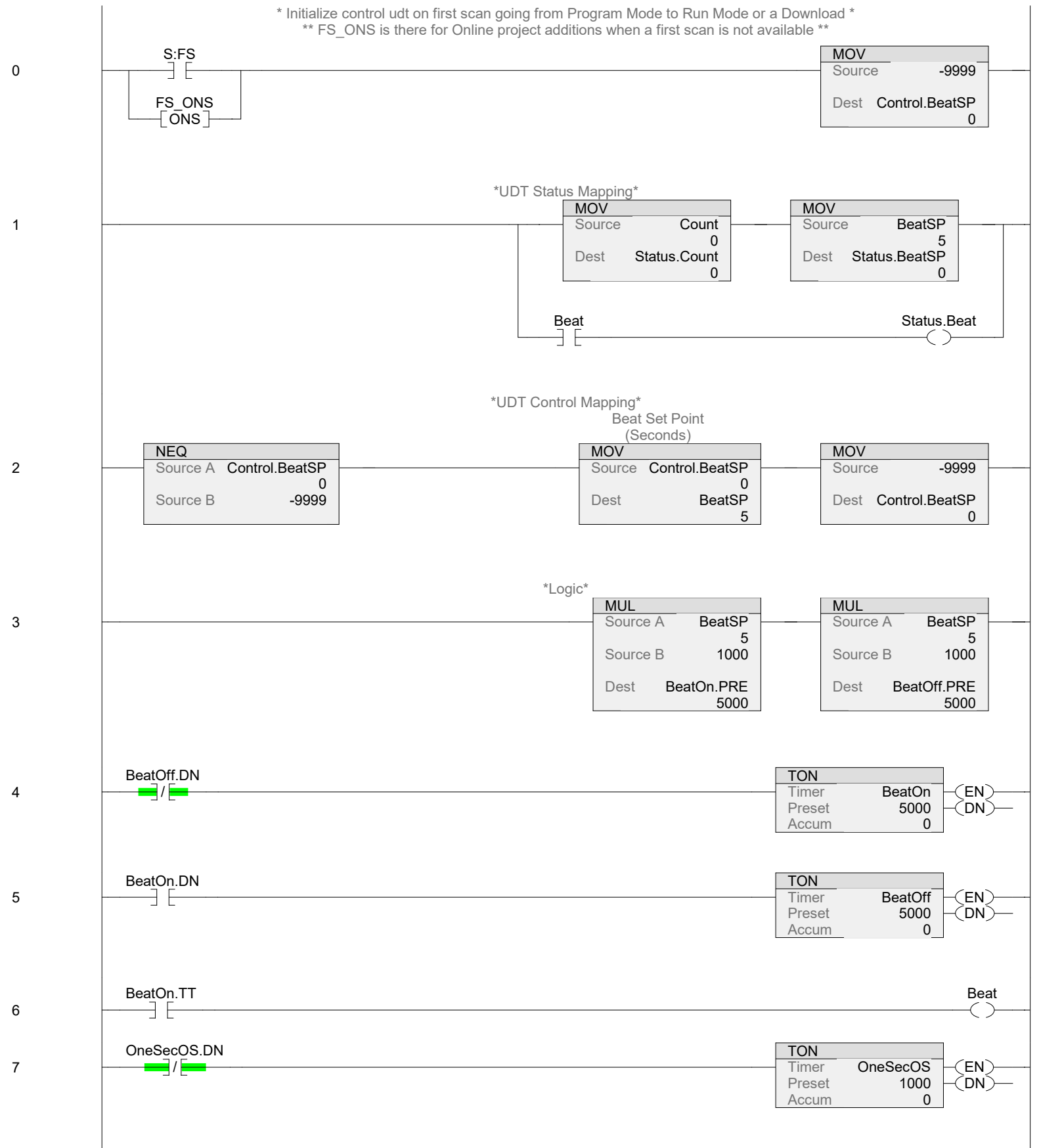
Condition	Description
EnableIn is false	
EnableIn is true	

Revision v33.0 First Revision Notes

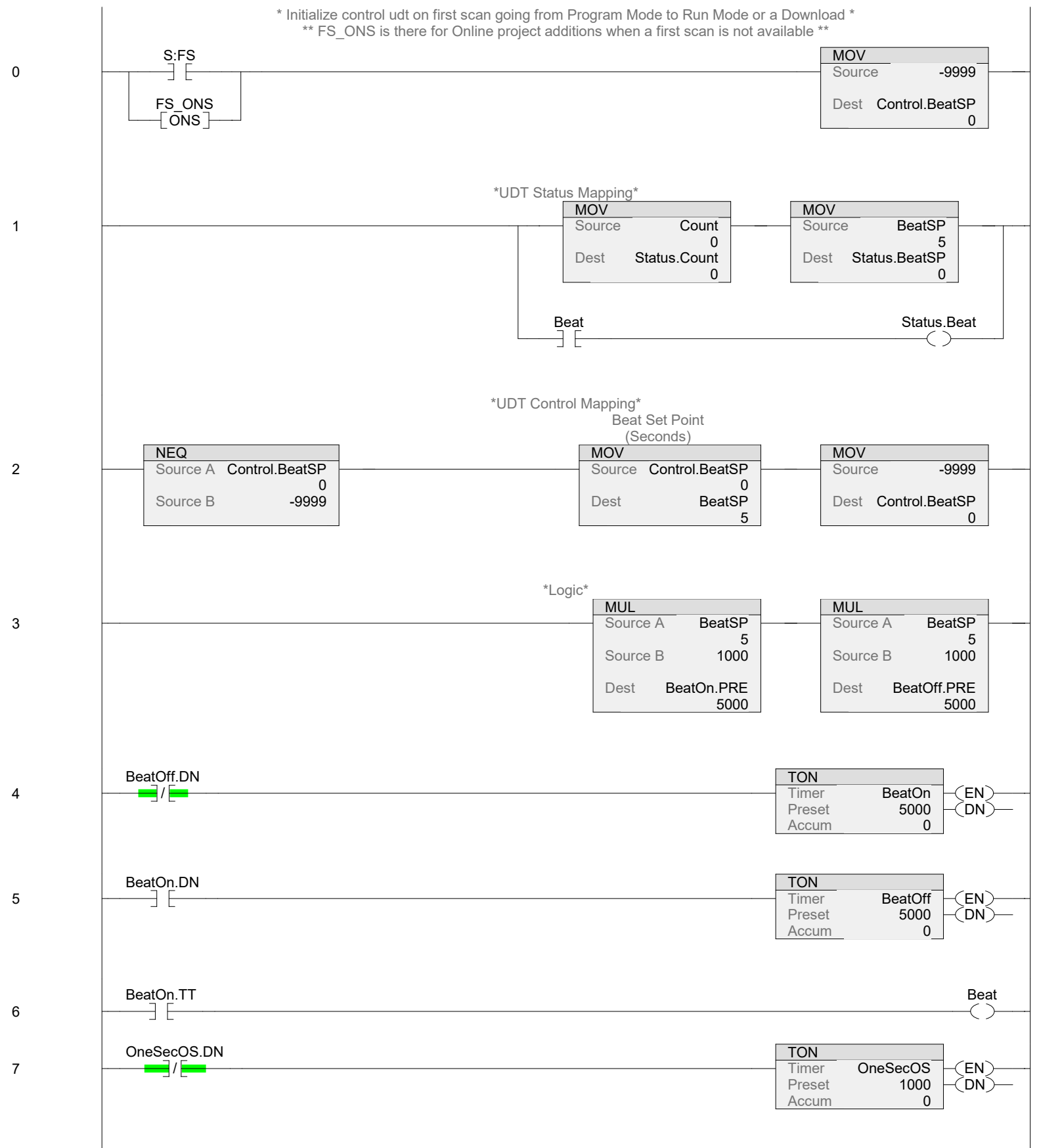
.0 Implemented Control/Status Local tags to improve comms efficiency

Name	Default	Data Type	Scope
Beat	0	BOOL	HEART
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>Beat - HEART/EnableInFalse - *6(OTE), 1(XIC)</i>			
<i>Beat - HEART/Logic - *6(OTE), 1(XIC)</i>			
BeatSP	5	DINT	HEART
Beat Set Point (Seconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>BeatSP - HEART/EnableInFalse - *2(MOV), 1(MOV), 3(MUL)</i>			
<i>BeatSP - HEART/Logic - *2(MOV), 1(MOV), 3(MUL)</i>			
Count	0	DINT	HEART
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>Count - HEART/EnableInFalse - *8(ADD), *9(CLR), 1(MOV), 8(ADD), 9(GEQ)</i>			
<i>Count - HEART/Logic - *8(ADD), *9(CLR), 1(MOV), 8(ADD), 9(GEQ)</i>			

Name	Default	Data Type	Scope
BeatOff		TIMER	HEART
Usage:	Local Tag		
External Access:	Read/Write		
<i>BeatOff - HEART/EnableInFalse - *5(TON)</i>			
<i>BeatOff - HEART/Logic - *5(TON)</i>			
BeatOff.PRE	5000	DINT	
<i>BeatOff.PRE - HEART/EnableInFalse - *3(MUL)</i>			
<i>BeatOff.PRE - HEART/Logic - *3(MUL)</i>			
BeatOff.DN	0	BOOL	
<i>BeatOff.DN - HEART/EnableInFalse - 4(XIO)</i>			
<i>BeatOff.DN - HEART/Logic - 4(XIO)</i>			
BeatOn		TIMER	HEART
Usage:	Local Tag		
External Access:	Read/Write		
<i>BeatOn - HEART/EnableInFalse - *4(TON)</i>			
<i>BeatOn - HEART/Logic - *4(TON)</i>			
BeatOn.PRE	5000	DINT	
<i>BeatOn.PRE - HEART/EnableInFalse - *3(MUL)</i>			
<i>BeatOn.PRE - HEART/Logic - *3(MUL)</i>			
BeatOn.TT	0	BOOL	
<i>BeatOn.TT - HEART/EnableInFalse - 6(XIC)</i>			
<i>BeatOn.TT - HEART/Logic - 6(XIC)</i>			
BeatOn.DN	0	BOOL	
<i>BeatOn.DN - HEART/EnableInFalse - 5(XIC)</i>			
<i>BeatOn.DN - HEART/Logic - 5(XIC)</i>			
Control		HEART_Control	HEART
Usage:	Local Tag		
External Access:	Read/Write		
<i>Control - HEART/EnableInFalse - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
<i>Control - HEART/Logic - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
FS_ONS	0	BOOL	HEART
Usage:	Local Tag		
External Access:	None		
<i>FS_ONS - HEART/EnableInFalse - *0(ONS)</i>			
<i>FS_ONS - HEART/Logic - *0(ONS)</i>			
OneSecOS		TIMER	HEART
Usage:	Local Tag		
External Access:	Read/Write		
<i>OneSecOS - HEART/EnableInFalse - *7(TON)</i>			
<i>OneSecOS - HEART/Logic - *7(TON)</i>			
OneSecOS.DN	0	BOOL	
<i>OneSecOS.DN - HEART/EnableInFalse - 7(XIO), 8(XIC)</i>			
<i>OneSecOS.DN - HEART/Logic - 7(XIO), 8(XIC)</i>			
Status		HEART_Status	HEART
Usage:	Local Tag		
External Access:	Read Only		
Status.Count	0	DINT	
<i>Status.Count - HEART/EnableInFalse - *1(MOV)</i>			
<i>Status.Count - HEART/Logic - *1(MOV)</i>			
Status.BeatSP	0	DINT	
<i>Status.BeatSP - HEART/EnableInFalse - *1(MOV)</i>			
<i>Status.BeatSP - HEART/Logic - *1(MOV)</i>			
Status.Beat	0	BOOL	
<i>Status.Beat - HEART/EnableInFalse - *1(OE)</i>			
<i>Status.Beat - HEART/Logic - *1(OE)</i>			









LL v33.0 First Revision

SKM

Position Lead/Lag Control Max 6

Available Languages

Relay Ladder

LL

Position Lead/Lag Control Max 6

LL ? ... (MaxOn)

AlternationMode ?

AlternationPRE ?

AlternationACC ?

NextCall ?

NextCallCountDown ?

NextCalled ?

CalledCount ?

Position1SP ?

Position2SP ?

Position3SP ?

Position4SP ?

Position5SP ?

Position6SP ?

Function Block

LL

Position Lead/Lag Control Max 6

AlternationMode NextCall

AlternationPRE NextCallCountDown

AlternationACC NextCalled

CalledCount MaxOn

Position1SP

Position2SP

Position3SP

Position4SP

Position5SP

Position6SP

Structured Text

LL();

Parameters

Required	Name	Data Type	Usage	Description
X	LL	LL	InOut	Position Lead/Lag Control Max 6
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
	AlternationMode	DINT	Input	Alternation Mode
	AlternationPRE	DINT	Input	Alternation Time Preset (0.01 HRS)
	AlternationACC	DINT	Input	Alternation Time Accumulated (0.01 HRS)

NextCall	DINT	Output	(1)Increase Call (0)No Call (-1)Decrease Call
NextCallCountDown	DINT	Output	Next Call Count Down (Milliseconds)
NextCalled	DINT	Output	(Equipment Number)
CalledCount	DINT	Input	Called Count
ReadyCount	DINT	Output	Ready Count
OnCountTotal	DINT	Output	Total On Count
OnCountAuto	DINT	Output	Auto On Count
OnCountMax	DINT	Input	Maximum On Count
Ready1	BOOL	Input	1 Ready
Ready2	BOOL	Input	2 Ready
Ready3	BOOL	Input	3 Ready
Ready4	BOOL	Input	4 Ready
Ready5	BOOL	Input	5 Ready
Ready6	BOOL	Input	6 Ready
RunHours1	DINT	Input	1 Total ETM
RunHours2	DINT	Input	2 Total ETM
RunHours3	DINT	Input	3 Total ETM
RunHours4	DINT	Input	4 Total ETM
RunHours5	DINT	Input	5 Total ETM
RunHours6	DINT	Input	6 Total ETM
Position1SP	DINT	Input	1 Lead/Lag Position SP
Position2SP	DINT	Input	2 Lead/Lag Position SP
Position3SP	DINT	Input	3 Lead/Lag Position SP
Position4SP	DINT	Input	4 Lead/Lag Position SP
Position5SP	DINT	Input	5 Lead/Lag Position SP
Position6SP	DINT	Input	6 Lead/Lag Position SP
Position1	DINT	Output	1 Lead/Lag Position
Position2	DINT	Output	2 Lead/Lag Position
Position3	DINT	Output	3 Lead/Lag Position
Position4	DINT	Output	4 Lead/Lag Position
Position5	DINT	Output	5 Lead/Lag Position
Position6	DINT	Output	6 Lead/Lag Position
Delay0_1	DINT	Input	Call On 0 to 1 Delay (Milliseconds)
Delay1_2	DINT	Input	Call On 1 to 2 Delay (Milliseconds)

Delay2_3	DINT	Input	Call On 2 to 3 Delay (Milliseconds)
Delay3_4	DINT	Input	Call On 3 to 4 Delay (Milliseconds)
Delay4_5	DINT	Input	Call On 4 to 5 Delay (Milliseconds)
Delay5_6	DINT	Input	Call On 5 to 6 Delay (Milliseconds)
Delay6_5	DINT	Input	Call Off 6 to 5 Delay (Milliseconds)
Delay5_4	DINT	Input	Call Off 5 to 4 Delay (Milliseconds)
Delay4_3	DINT	Input	Call Off 4 to 3 Delay (Milliseconds)
Delay3_2	DINT	Input	Call Off 3 to 2 Delay (Milliseconds)
Delay2_1	DINT	Input	Call Off 2 to 1 Delay (Milliseconds)
Delay1_0	DINT	Input	Call Off 1 to 0 Delay (Milliseconds)
MaxOn	BOOL	Output	Maximum Number of Devices are Running
On1	BOOL	Input	
On2	BOOL	Input	
On3	BOOL	Input	
On4	BOOL	Input	
On5	BOOL	Input	
On6	BOOL	Input	
CountUpOS	BOOL	Output	
CountDownOS	BOOL	Output	

Extended Description

-Alternates pumps according to the following 5 modes:

- 0=Manual (manually sorted based on PositionSP)
- 1=Time/Run Hours (sorted by run hours after each time out)
- 2=Time/Sequential (sequentially rotated after each time out)
- 3=Pump Stop/Run Hours (sorted by run hours after CalledCount = 0)
- 4=Pump Stop/Sequential (sequentially rotated after CalledCount = 0)

Lead/Lag Position is defined as:

- 0=Not Ready
- 1=1st Position
- 2=2nd Position
- 3=3rd Position
- 4=4th Position
- 5=5th Position
- 6=6th Position

AlternationTimePRE/ACC are in hours with 2 assumed decimals.

For Transitioning number of devices called, write a 1 to NextCall to increase the CalledCount or -1 to decrease. NextCall is automatically reset once the transition occurs.

When a call is made, the appropriate time delay starts and transitions the CalledCount.

Transition Delays are in Milliseconds and can be adjusted externally.

NextCalled displays the equipment number about to be called when a call is made. Otherwise this is 0.

NextCallCountDown displays the time remaining (in Milliseconds) before the CalledCount changes.

OnCountMax = The maximum number of devices allowed to be on in auto or manual. If the OnCountTotal exceeds the OnCountMax, then the CalledCount is reduced accordingly. If the OnCountTotal is greater than or equal to the OnCountMax, then the MaxOn bit is set to keep additional devices from staging on.

OnCountTotal = The total number of devices actively on in auto or manual.

OnCountAuto = The total number of devices actively on in auto only.

Execution

Condition	Description
EnableIn is false	
EnableIn is true	

Revision v33.0 First Revision Notes

.0 Implemented Control/Status Local tags to improve comms efficiency

Name	Default	Data Type	Scope
AlternationACC	0	DINT	LL
Alternation Time Accumulated (0.01 HRS)			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>AlternationACC - LL/EnableInFalse - *9(MOV), 1(MOV)</i>			
<i>AlternationACC - LL/Logic - *64(ADD), *64(CLR), *66(CLR), *9(MOV), 1(MOV), 64(ADD), 64(GEQ), 65(MOV), 65(NEQ)</i>			
AlternationMode	0	DINT	LL
Alternation Mode			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>AlternationMode - LL/EnableInFalse - *7(MOV), 1(MOV)</i>			
<i>AlternationMode - LL/Logic - *35(MOV), *7(MOV), 1(MOV), 35(GRT), 35(LES), 41(EQU), 42(EQU), 45(EQU), 46(EQU), 49(EQU), 50(EQU), 53(EQU), 54(EQU), 57(EQU), 58(EQU), 61(EQU), 62(EQU), 64(EQU), 66(NEQ), 67(EQU), 84(NEQ)</i>			
AlternationPRE	2400	DINT	LL
Alternation Time Preset (0.01 HRS)			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>AlternationPRE - LL/EnableInFalse - *8(MOV), 1(MOV)</i>			
<i>AlternationPRE - LL/Logic - *36(CLR), *8(MOV), 1(MOV), 36(LES), 64(GEQ), 64(NEQ), 66(EQU)</i>			
CalledCount	0	DINT	LL
Called Count			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>CalledCount - LL/EnableInFalse - *0(CLR), 6(MOV)</i>			
<i>CalledCount - LL/Logic - *0(CLR), *100(MOV), *101(MOV), *102(MOV), *103(MOV), *104(MOV), *105(CPT), *92(MOV), *93(MOV), *94(MOV), *95(MOV), *96(MOV), *97(MOV), *98(MOV), *99(MOV), 100(EQU), 101(EQU), 102(EQU), 103(EQU), 104(GRT), 107(CMP), 108(CMP), 6(MOV), 63(EQU), 63(MOV), 63(NEQ), 92(EQU), 93(EQU), 94(EQU), 95(EQU), 96(EQU), 97(EQU), 98(EQU), 99(EQU)</i>			
CountDownOS	0	BOOL	LL
Usage: Output Parameter			
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>CountDownOS - LL/Logic - *109(OTE)</i>			
CountUpOS	0	BOOL	LL
Usage: Output Parameter			
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>CountUpOS - LL/Logic - *109(OTE)</i>			
Delay0_1	5000	DINT	LL
Call On 0 to 1 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay0_1 - LL/EnableInFalse - *17(MOV), 4(MOV)</i>			
<i>Delay0_1 - LL/Logic - *17(MOV), 4(MOV), 92(MOV)</i>			

Delay1_0	5000	DINT	LL
Call Off 1 to 0 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay1_0 - LL/EnableInFalse - *28(MOV), 5(MOV)</i>			
<i>Delay1_0 - LL/Logic - *28(MOV), 103(MOV), 5(MOV)</i>			
Delay1_2	10000	DINT	LL
Call On 1 to 2 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay1_2 - LL/EnableInFalse - *18(MOV), 4(MOV)</i>			
<i>Delay1_2 - LL/Logic - *18(MOV), 4(MOV), 93(MOV)</i>			
Delay2_1	10000	DINT	LL
Call Off 2 to 1 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay2_1 - LL/EnableInFalse - *27(MOV), 5(MOV)</i>			
<i>Delay2_1 - LL/Logic - *27(MOV), 102(MOV), 5(MOV)</i>			
Delay2_3	15000	DINT	LL
Call On 2 to 3 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay2_3 - LL/EnableInFalse - *19(MOV), 4(MOV)</i>			
<i>Delay2_3 - LL/Logic - *19(MOV), 4(MOV), 94(MOV)</i>			
Delay3_2	15000	DINT	LL
Call Off 3 to 2 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay3_2 - LL/EnableInFalse - *26(MOV), 5(MOV)</i>			
<i>Delay3_2 - LL/Logic - *26(MOV), 101(MOV), 5(MOV)</i>			
Delay3_4	20000	DINT	LL
Call On 3 to 4 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay3_4 - LL/EnableInFalse - *20(MOV), 4(MOV)</i>			
<i>Delay3_4 - LL/Logic - *20(MOV), 4(MOV), 95(MOV)</i>			
Delay4_3	20000	DINT	LL
Call Off 4 to 3 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay4_3 - LL/EnableInFalse - *25(MOV), 5(MOV)</i>			
<i>Delay4_3 - LL/Logic - *25(MOV), 100(MOV), 5(MOV)</i>			

Delay4_5	25000	DINT	LL
Call On 4 to 5 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay4_5 - LL/EnableInFalse - *21(MOV), 4(MOV)</i>			
<i>Delay4_5 - LL/Logic - *21(MOV), 4(MOV), 96(MOV)</i>			
Delay5_4	25000	DINT	LL
Call Off 5 to 4 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay5_4 - LL/EnableInFalse - *24(MOV), 5(MOV)</i>			
<i>Delay5_4 - LL/Logic - *24(MOV), 5(MOV), 99(MOV)</i>			
Delay5_6	30000	DINT	LL
Call On 5 to 6 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay5_6 - LL/EnableInFalse - *22(MOV), 4(MOV)</i>			
<i>Delay5_6 - LL/Logic - *22(MOV), 4(MOV), 97(MOV)</i>			
Delay6_5	30000	DINT	LL
Call Off 6 to 5 Delay (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Delay6_5 - LL/EnableInFalse - *23(MOV), 5(MOV)</i>			
<i>Delay6_5 - LL/Logic - *23(MOV), 5(MOV), 98(MOV)</i>			
MaxOn	0	BOOL	LL
Maximum Number of Devices are Running			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>MaxOn - LL/Logic - *38(OTE), 92(XIO), 93(XIO), 94(XIO), 95(XIO), 96(XIO), 97(XIO)</i>			
NextCall	0	DINT	LL
(1)Increase Call (0)No Call (-1)Decrease Call			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>NextCall - LL/EnableInFalse - *0(CLR), *10(MOV), 6(MOV)</i>			
<i>NextCall - LL/Logic - *0(CLR), *10(MOV), *100(CLR), *101(CLR), *102(CLR), *103(CLR), *63(CLR), *92(CLR), *93(CLR), *94(CLR), *95(CLR), *96(CLR), *97(CLR), *98(CLR), *99(CLR), 100(EQU), 101(EQU), 102(EQU), 103(EQU), 107(EQU), 108(EQU), 6(MOV), 92(EQU), 93(EQU), 94(EQU), 95(EQU), 96(EQU), 97(EQU), 98(EQU), 99(EQU)</i>			
NextCallCountDown	0	DINT	LL
Next Call Count Down (Milliseconds)			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>NextCallCountDown - LL/EnableInFalse - *0(CLR), 6(MOV)</i>			

NextCallCountDown (Continued)

*NextCallCountDown - LL/Logic - *0(CLR), *100(CPT), *101(CPT), *102(CPT), *103(CPT), *91(CLR), *92(CPT), *93(CPT), *94(CPT), *95(CPT), *96(CPT), *97(CPT), *98(CPT), *99(CPT), 6(MOV)*

NextCalled 0 DINT LL
(Equipment Number)

Usage: Output Parameter

Required: No

Visible: Yes

External Access: Read/Write

NextCalled - LL/EnableInFalse - 6(MOV)

*NextCalled - LL/Logic - *106(CLR), *107(MOV), *108(MOV), 6(MOV)*

On1 0 BOOL LL

Usage: Input Parameter

Required: No

Visible: No

External Access: Read/Write

On1 - LL/Logic - 37(XIC)

On2 0 BOOL LL

Usage: Input Parameter

Required: No

Visible: No

External Access: Read/Write

On2 - LL/Logic - 37(XIC)

On3 0 BOOL LL

Usage: Input Parameter

Required: No

Visible: No

External Access: Read/Write

On3 - LL/Logic - 37(XIC)

On4 0 BOOL LL

Usage: Input Parameter

Required: No

Visible: No

External Access: Read/Write

On4 - LL/Logic - 37(XIC)

On5 0 BOOL LL

Usage: Input Parameter

Required: No

Visible: No

External Access: Read/Write

On5 - LL/Logic - 37(XIC)

On6 0 BOOL LL

Usage: Input Parameter

Required: No

Visible: No

External Access: Read/Write

On6 - LL/Logic - 37(XIC)

OnCountAuto 0 DINT LL

Auto On Count

Usage: Output Parameter

Required: No

Visible: No

External Access: Read Only

*OnCountAuto - LL/Logic - *37(ADD), *37(CLR), 105(CPT), 37(ADD)*

OnCountMax	1	DINT	LL
Maximum On Count			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>OnCountMax - LL/Logic - 105(CPT), 105(GRT), 38(GEQ)</i>			
OnCountTotal	0	DINT	LL
Total On Count			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>OnCountTotal - LL/Logic - *37(ADD), *37(CLR), 105(CPT), 105(GRT), 109(GRT), 109(LES), 109(MOV), 109(NEQ), 37(ADD), 38(GEQ)</i>			
Position1	0	DINT	LL
1 Lead/Lag Position			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>Position1 - LL/EnableInFalse - 3(MOV)</i>			
<i>Position1 - LL/Logic - *39(CLR), *40(MOV), *41(MOV), *42(MOV), *42(SUB), *43(SUB), *45(MOV), *47(SUB), *49(MOV), *51(SUB), *53(MOV), *55(SUB), *57(MOV), *59(SUB), *61(MOV), *83(MOV), *85(CLR), 107(CMP), 108(CMP), 3(MOV), 39(GRT), 39(NEQ), 40(MOV), 41(MOV), 41(NEQ), 42(EQU), 42(NEQ), 42(SUB), 43(GRT), 43(NEQ), 43(SUB), 44(NEQ), 45(EQU), 47(GRT), 47(NEQ), 47(SUB), 48(NEQ), 49(EQU), 51(GRT), 51(NEQ), 51(SUB), 52(NEQ), 53(EQU), 55(GRT), 55(NEQ), 55(SUB), 56(NEQ), 57(EQU), 59(GRT), 59(NEQ), 59(SUB), 60(NEQ), 61(EQU), 84(MOV)</i>			
Position1SP	0	DINT	LL
1 Lead/Lag Position SP			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Position1SP - LL/EnableInFalse - *11(MOV), 2(MOV)</i>			
<i>Position1SP - LL/Logic - *11(MOV), *29(MOV), *39(CLR), *40(MOV), *41(MOV), *43(SUB), *45(MOV), *47(SUB), *49(MOV), *51(SUB), *53(MOV), *55(SUB), *57(MOV), *59(SUB), *61(MOV), *84(MOV), *85(CLR), 2(MOV), 29(GRT), 29(LES), 41(EQU), 41(GRT), 41(MOV), 41(NEQ), 43(SUB), 47(SUB), 51(SUB), 55(SUB), 59(SUB)</i>			
Position2	0	DINT	LL
2 Lead/Lag Position			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>Position2 - LL/EnableInFalse - 3(MOV)</i>			
<i>Position2 - LL/Logic - *39(SUB), *41(MOV), *43(CLR), *44(MOV), *45(MOV), *46(MOV), *46(SUB), *47(SUB), *49(MOV), *51(SUB), *53(MOV), *55(SUB), *57(MOV), *59(SUB), *61(MOV), *83(MOV), *86(CLR), 107(CMP), 108(CMP), 3(MOV), 39(GRT), 39(NEQ), 39(SUB), 40(NEQ), 41(EQU), 43(GRT), 43(NEQ), 44(MOV), 45(MOV), 45(NEQ), 46(EQU), 46(NEQ), 46(SUB), 47(GRT), 47(NEQ), 47(SUB), 48(NEQ), 49(EQU), 51(GRT), 51(NEQ), 51(SUB), 52(NEQ), 53(EQU), 55(GRT), 55(NEQ), 55(SUB), 56(NEQ), 57(EQU), 59(GRT), 59(NEQ), 59(SUB), 60(NEQ), 61(EQU), 84(MOV)</i>			
Position2SP	0	DINT	LL
2 Lead/Lag Position SP			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Position2SP - LL/EnableInFalse - *12(MOV), 2(MOV)</i>			
<i>Position2SP - LL/Logic - *12(MOV), *30(MOV), *39(SUB), *41(MOV), *43(CLR), *44(MOV), *45(MOV), *47(SUB), *49(MOV), *51(SUB), *53(MOV), *55(SUB), *57(MOV), *59(SUB), *61(MOV), *84(MOV), *86(CLR), 2(MOV), 30(GRT), 30(LES), 39(SUB), 45(EQU), 45(GRT), 45(MOV), 45(NEQ), 47(SUB), 51(SUB), 55(SUB), 59(SUB)</i>			

Position3	0	DINT	LL
3 Lead/Lag Position			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>Position3 - LL/EnableInFalse - 3(MOV)</i>			
<i>Position3 - LL/Logic - *39(SUB), *41(MOV), *43(SUB), *45(MOV), *47(CLR), *48(MOV), *49(MOV), *50(MOV), *50(SUB), *51(SUB), *53(MOV), *55(SUB), *57(MOV), *59(SUB), *61(MOV), *83(MOV), *87(CLR), 107(CMP), 108(CMP), 3(MOV), 39(GRT), 39(NEQ), 39(SUB), 40(NEQ), 41(EQU), 43(GRT), 43(NEQ), 43(SUB), 44(NEQ), 45(EQU), 47(GRT), 47(NEQ), 48(MOV), 49(MOV), 49(NEQ), 50(EQU), 50(NEQ), 50(SUB), 51(GRT), 51(NEQ), 51(SUB), 52(NEQ), 53(EQU), 55(GRT), 55(NEQ), 55(SUB), 56(NEQ), 57(EQU), 59(GRT), 59(NEQ), 59(SUB), 60(NEQ), 61(EQU), 84(MOV)</i>			
Position3SP	0	DINT	LL
3 Lead/Lag Position SP			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Position3SP - LL/EnableInFalse - *13(MOV), 2(MOV)</i>			
<i>Position3SP - LL/Logic - *13(MOV), *31(MOV), *39(SUB), *41(MOV), *43(SUB), *45(MOV), *47(CLR), *48(MOV), *49(MOV), *51(SUB), *53(MOV), *55(SUB), *57(MOV), *59(SUB), *61(MOV), *84(MOV), *87(CLR), 2(MOV), 31(GRT), 31(LES), 39(SUB), 43(SUB), 49(EQU), 49(GRT), 49(MOV), 49(NEQ), 51(SUB), 55(SUB), 59(SUB)</i>			
Position4	0	DINT	LL
4 Lead/Lag Position			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>Position4 - LL/EnableInFalse - 3(MOV)</i>			
<i>Position4 - LL/Logic - *39(SUB), *41(MOV), *43(SUB), *45(MOV), *47(SUB), *49(MOV), *51(CLR), *52(MOV), *53(MOV), *54(MOV), *54(SUB), *55(SUB), *57(MOV), *59(SUB), *61(MOV), *83(MOV), *88(CLR), 107(CMP), 108(CMP), 3(MOV), 39(GRT), 39(NEQ), 39(SUB), 40(NEQ), 41(EQU), 43(GRT), 43(NEQ), 43(SUB), 44(NEQ), 45(EQU), 47(GRT), 47(NEQ), 47(SUB), 48(NEQ), 49(EQU), 51(GRT), 51(NEQ), 52(MOV), 53(MOV), 53(NEQ), 54(EQU), 54(NEQ), 54(SUB), 55(GRT), 55(NEQ), 55(SUB), 56(NEQ), 57(EQU), 59(GRT), 59(NEQ), 59(SUB), 60(NEQ), 61(EQU), 84(MOV)</i>			
Position4SP	0	DINT	LL
4 Lead/Lag Position SP			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Position4SP - LL/EnableInFalse - *14(MOV), 2(MOV)</i>			
<i>Position4SP - LL/Logic - *14(MOV), *32(MOV), *39(SUB), *41(MOV), *43(SUB), *45(MOV), *47(SUB), *49(MOV), *51(CLR), *52(MOV), *53(MOV), *55(SUB), *57(MOV), *59(SUB), *61(MOV), *84(MOV), *88(CLR), 2(MOV), 32(GRT), 32(LES), 39(SUB), 43(SUB), 47(SUB), 53(EQU), 53(GRT), 53(MOV), 53(NEQ), 55(SUB), 59(SUB)</i>			
Position5	0	DINT	LL
5 Lead/Lag Position			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>Position5 - LL/EnableInFalse - 3(MOV)</i>			
<i>Position5 - LL/Logic - *39(SUB), *41(MOV), *43(SUB), *45(MOV), *47(SUB), *49(MOV), *51(SUB), *53(MOV), *55(CLR), *56(MOV), *57(MOV), *58(MOV), *58(SUB), *59(SUB), *61(MOV), *83(MOV), *89(CLR), 107(CMP), 108(CMP), 3(MOV), 39(GRT), 39(NEQ), 39(SUB), 40(NEQ), 41(EQU), 43(GRT), 43(NEQ), 43(SUB), 44(NEQ), 45(EQU), 47(GRT), 47(NEQ), 47(SUB), 48(NEQ), 49(EQU), 51(GRT), 51(NEQ), 51(SUB), 52(NEQ), 53(EQU), 55(GRT), 55(NEQ), 56(MOV), 57(MOV), 57(NEQ), 58(EQU), 58(NEQ), 58(SUB), 59(GRT), 59(NEQ), 59(SUB), 60(NEQ), 61(EQU), 84(MOV)</i>			
Position5SP	0	DINT	LL
5 Lead/Lag Position SP			

Position5SP (Continued)

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write

*Position5SP - LL/EnableInFalse - *15(MOV), 2(MOV)*

*Position5SP - LL/Logic - *15(MOV), *33(MOV), *39(SUB), *41(MOV), *43(SUB), *45(MOV), *47(SUB), *49(MOV), *51(SUB), *53(MOV), *55(CLR), *56(MOV), *57(MOV), *59(SUB), *61(MOV), *84(MOV), *89(CLR), 2(MOV), 33(GRT), 33(LES), 39(SUB), 43(SUB), 47(SUB), 51(SUB), 57(EQU), 57(GRT), 57(MOV), 57(NEQ), 59(SUB)*

Position6 0 DINT LL

6 Lead/Lag Position

Usage: Output Parameter
 Required: No
 Visible: No
 External Access: Read Only

Position6 - LL/EnableInFalse - 3(MOV)

*Position6 - LL/Logic - *39(SUB), *41(MOV), *43(SUB), *45(MOV), *47(SUB), *49(MOV), *51(SUB), *53(MOV), *55(SUB), *57(MOV), *59(CLR), *60(MOV), *61(MOV), *62(MOV), *62(SUB), *83(MOV), *90(CLR), 107(CMP), 108(CMP), 3(MOV), 39(GRT), 39(NEQ), 39(SUB), 40(NEQ), 41(EQU), 43(GRT), 43(NEQ), 43(SUB), 44(NEQ), 45(EQU), 47(GRT), 47(NEQ), 47(SUB), 48(NEQ), 49(EQU), 51(GRT), 51(NEQ), 51(SUB), 52(NEQ), 53(EQU), 55(GRT), 55(NEQ), 55(SUB), 56(NEQ), 57(EQU), 59(GRT), 59(NEQ), 60(MOV), 61(MOV), 61(NEQ), 62(EQU), 62(NEQ), 62(SUB), 84(MOV)*

Position6SP 0 DINT LL

6 Lead/Lag Position SP

Usage: Input Parameter
 Required: No
 Visible: Yes
 External Access: Read/Write

*Position6SP - LL/EnableInFalse - *16(MOV), 2(MOV)*

*Position6SP - LL/Logic - *16(MOV), *34(MOV), *39(SUB), *41(MOV), *43(SUB), *45(MOV), *47(SUB), *49(MOV), *51(SUB), *53(MOV), *55(SUB), *57(MOV), *59(CLR), *60(MOV), *61(MOV), *84(MOV), *90(CLR), 2(MOV), 34(GRT), 34(LES), 39(SUB), 43(SUB), 47(SUB), 51(SUB), 55(SUB), 61(EQU), 61(GRT), 61(MOV), 61(NEQ)*

Ready1 0 BOOL LL

1 Ready

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write

Ready1 - LL/Logic - 37(XIC), 39(XIO), 40(XIC), 41(XIC), 69(XIC), 76(XIC), 85(XIO)

Ready2 0 BOOL LL

2 Ready

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write

Ready2 - LL/Logic - 37(XIC), 43(XIO), 44(XIC), 45(XIC), 70(XIC), 76(XIC), 86(XIO)

Ready3 0 BOOL LL

3 Ready

Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write

Ready3 - LL/Logic - 37(XIC), 47(XIO), 48(XIC), 49(XIC), 71(XIC), 76(XIC), 87(XIO)

Ready4 0 BOOL LL

4 Ready

Usage: Input Parameter
 Required: No
 Visible: No

Ready4 (Continued)

External Access: Read/Write
Ready4 - LL/Logic - 37(XIC), 51(XIO), 52(XIC), 53(XIC), 72(XIC), 76(XIC), 88(XIO)

Ready5 0 BOOL LL

5 Ready
 Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
Ready5 - LL/Logic - 37(XIC), 55(XIO), 56(XIC), 57(XIC), 73(XIC), 76(XIC), 89(XIO)

Ready6 0 BOOL LL

6 Ready
 Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
Ready6 - LL/Logic - 37(XIC), 59(XIO), 60(XIC), 61(XIC), 74(XIC), 76(XIC), 90(XIO)

ReadyCount 0 DINT LL

Ready Count
 Usage: Output Parameter
 Required: No
 Visible: No
 External Access: Read Only
ReadyCount - LL/EnableInFalse - 6(MOV)
*ReadyCount - LL/Logic - *76(ADD), *76(CLR), 104(GRT), 104(MOV), 41(GRT), 41(MOV), 42(MOV), 45(GRT), 45(MOV), 46(MOV), 49(GRT), 49(MOV), 50(MOV), 53(GRT), 53(MOV), 54(MOV), 57(GRT), 57(MOV), 58(MOV), 6(MOV), 61(GRT), 61(MOV), 62(MOV), 76(ADD), 83(CMP), 92(GEQ), 93(GEQ), 94(GEQ), 95(GEQ), 96(GEQ), 97(GEQ)*

RunHours1 0 DINT LL

1 Total ETM
 Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
RunHours1 - LL/Logic - 69(LEQ), 69(MOV)

RunHours2 0 DINT LL

2 Total ETM
 Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
RunHours2 - LL/Logic - 70(LEQ), 70(MOV)

RunHours3 0 DINT LL

3 Total ETM
 Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
RunHours3 - LL/Logic - 71(LEQ), 71(MOV)

RunHours4 0 DINT LL

4 Total ETM
 Usage: Input Parameter
 Required: No
 Visible: No
 External Access: Read/Write
RunHours4 - LL/Logic - 72(LEQ), 72(MOV)

RunHours5	0	DINT	LL
5 Total ETM			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>RunHours5 - LL/Logic - 73(LEQ), 73(MOV)</i>			

RunHours6	0	DINT	LL
6 Total ETM			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>RunHours6 - LL/Logic - 74(LEQ), 74(MOV)</i>			

Name	Default	Data Type	Scope
AlternationACCCompare	0	DINT	LL
Usage:	Local Tag		
External Access:	Read/Write		
<i>AlternationACCCompare - LL/Logic - *65(MOV), 65(NEQ)</i>			
AlternationTimer		TIMER	LL
Alternation Timer (0.01 HRS)			
Usage:	Local Tag		
External Access:	Read/Write		
<i>AlternationTimer - LL/Logic - *64(TON), *65(RES)</i>			
AlternationTimer.PRE	36000	DINT	
Alternation Timer (0.01 HRS)			
AlternationTimer.ACC	0	DINT	
Alternation Timer (0.01 HRS)			
AlternationTimer.EN	0	BOOL	
Alternation Timer (0.01 HRS)			
AlternationTimer.TT	0	BOOL	
Alternation Timer (0.01 HRS)			
AlternationTimer.DN	0	BOOL	
Alternation Timer (0.01 HRS)			
<i>AlternationTimer.DN - LL/Logic - 64(XIC), 64(XIO)</i>			
CalledCompare	0	DINT	LL
Usage:	Local Tag		
External Access:	Read/Write		
<i>CalledCompare - LL/Logic - *63(MOV), 63(NEQ)</i>			
CallTimer		TIMER[12]	LL
Usage:	Local Tag		
External Access:	None		
CallTimer[0]		TIMER	
0-1 Delay			
<i>CallTimer[0] - LL/Logic - *92(TON)</i>			
CallTimer[0].PRE	0	DINT	
0-1 Delay			
<i>CallTimer[0].PRE - LL/Logic - *92(MOV), 92(CPT)</i>			
CallTimer[0].ACC	0	DINT	
0-1 Delay			
<i>CallTimer[0].ACC - LL/Logic - 92(CPT)</i>			
CallTimer[0].EN	0	BOOL	
0-1 Delay			
CallTimer[0].TT	0	BOOL	
0-1 Delay			
CallTimer[0].DN	0	BOOL	
0-1 Delay			
<i>CallTimer[0].DN - LL/Logic - 92(XIC)</i>			
CallTimer[1]		TIMER	
1-2 Delay			
<i>CallTimer[1] - LL/Logic - *93(TON)</i>			
CallTimer[1].PRE	0	DINT	
1-2 Delay			
<i>CallTimer[1].PRE - LL/Logic - *93(MOV), 93(CPT)</i>			
CallTimer[1].ACC	0	DINT	
1-2 Delay			
<i>CallTimer[1].ACC - LL/Logic - 93(CPT)</i>			
CallTimer[1].EN	0	BOOL	
1-2 Delay			
CallTimer[1].TT	0	BOOL	
1-2 Delay			
CallTimer[1].DN	0	BOOL	
1-2 Delay			
<i>CallTimer[1].DN - LL/Logic - 93(XIC)</i>			

CallTimer (Continued)

CallTimer[2]		TIMER
2-3 Delay		
<i>CallTimer[2] - LL/Logic - *94(TON)</i>		
CallTimer[2].PRE	0	DINT
2-3 Delay		
<i>CallTimer[2].PRE - LL/Logic - *94(MOV), 94(CPT)</i>		
CallTimer[2].ACC	0	DINT
2-3 Delay		
<i>CallTimer[2].ACC - LL/Logic - 94(CPT)</i>		
CallTimer[2].EN	0	BOOL
2-3 Delay		
CallTimer[2].TT	0	BOOL
2-3 Delay		
CallTimer[2].DN	0	BOOL
2-3 Delay		
<i>CallTimer[2].DN - LL/Logic - 94(XIC)</i>		
CallTimer[3]		TIMER
3-4 Delay		
<i>CallTimer[3] - LL/Logic - *95(TON)</i>		
CallTimer[3].PRE	0	DINT
3-4 Delay		
<i>CallTimer[3].PRE - LL/Logic - *95(MOV), 95(CPT)</i>		
CallTimer[3].ACC	0	DINT
3-4 Delay		
<i>CallTimer[3].ACC - LL/Logic - 95(CPT)</i>		
CallTimer[3].EN	0	BOOL
3-4 Delay		
CallTimer[3].TT	0	BOOL
3-4 Delay		
CallTimer[3].DN	0	BOOL
3-4 Delay		
<i>CallTimer[3].DN - LL/Logic - 95(XIC)</i>		
CallTimer[4]		TIMER
4-5 Delay		
<i>CallTimer[4] - LL/Logic - *96(TON)</i>		
CallTimer[4].PRE	0	DINT
4-5 Delay		
<i>CallTimer[4].PRE - LL/Logic - *96(MOV), 96(CPT)</i>		
CallTimer[4].ACC	0	DINT
4-5 Delay		
<i>CallTimer[4].ACC - LL/Logic - 96(CPT)</i>		
CallTimer[4].EN	0	BOOL
4-5 Delay		
CallTimer[4].TT	0	BOOL
4-5 Delay		
CallTimer[4].DN	0	BOOL
4-5 Delay		
<i>CallTimer[4].DN - LL/Logic - 96(XIC)</i>		
CallTimer[5]		TIMER
5-6 Delay		
<i>CallTimer[5] - LL/Logic - *97(TON)</i>		
CallTimer[5].PRE	0	DINT
5-6 Delay		
<i>CallTimer[5].PRE - LL/Logic - *97(MOV), 97(CPT)</i>		
CallTimer[5].ACC	0	DINT
5-6 Delay		
<i>CallTimer[5].ACC - LL/Logic - 97(CPT)</i>		
CallTimer[5].EN	0	BOOL
5-6 Delay		
CallTimer[5].TT	0	BOOL
5-6 Delay		
CallTimer[5].DN	0	BOOL

CallTimer (Continued)

5-6 Delay		
<i>CallTimer[5].DN - LL/Logic - 97(XIC)</i>		
CallTimer[6]		TIMER
6-5 Delay		
<i>CallTimer[6] - LL/Logic - *98(TON)</i>		
CallTimer[6].PRE	0	DINT
6-5 Delay		
<i>CallTimer[6].PRE - LL/Logic - *98(MOV), 98(CPT)</i>		
CallTimer[6].ACC	0	DINT
6-5 Delay		
<i>CallTimer[6].ACC - LL/Logic - 98(CPT)</i>		
CallTimer[6].EN	0	BOOL
6-5 Delay		
CallTimer[6].TT	0	BOOL
6-5 Delay		
CallTimer[6].DN	0	BOOL
6-5 Delay		
<i>CallTimer[6].DN - LL/Logic - 98(XIC)</i>		
CallTimer[7]		TIMER
5-4 Delay		
<i>CallTimer[7] - LL/Logic - *99(TON)</i>		
CallTimer[7].PRE	0	DINT
5-4 Delay		
<i>CallTimer[7].PRE - LL/Logic - *99(MOV), 99(CPT)</i>		
CallTimer[7].ACC	0	DINT
5-4 Delay		
<i>CallTimer[7].ACC - LL/Logic - 99(CPT)</i>		
CallTimer[7].EN	0	BOOL
5-4 Delay		
CallTimer[7].TT	0	BOOL
5-4 Delay		
CallTimer[7].DN	0	BOOL
5-4 Delay		
<i>CallTimer[7].DN - LL/Logic - 99(XIC)</i>		
CallTimer[8]		TIMER
4-3 Delay		
<i>CallTimer[8] - LL/Logic - *100(TON)</i>		
CallTimer[8].PRE	0	DINT
4-3 Delay		
<i>CallTimer[8].PRE - LL/Logic - *100(MOV), 100(CPT)</i>		
CallTimer[8].ACC	0	DINT
4-3 Delay		
<i>CallTimer[8].ACC - LL/Logic - 100(CPT)</i>		
CallTimer[8].EN	0	BOOL
4-3 Delay		
CallTimer[8].TT	0	BOOL
4-3 Delay		
CallTimer[8].DN	0	BOOL
4-3 Delay		
<i>CallTimer[8].DN - LL/Logic - 100(XIC)</i>		
CallTimer[9]		TIMER
3-2 Delay		
<i>CallTimer[9] - LL/Logic - *101(TON)</i>		
CallTimer[9].PRE	0	DINT
3-2 Delay		
<i>CallTimer[9].PRE - LL/Logic - *101(MOV), 101(CPT)</i>		
CallTimer[9].ACC	0	DINT
3-2 Delay		
<i>CallTimer[9].ACC - LL/Logic - 101(CPT)</i>		
CallTimer[9].EN	0	BOOL
3-2 Delay		
CallTimer[9].TT	0	BOOL

CallTimer (Continued)			
3-2 Delay			
CallTimer[9].DN	0	BOOL	
3-2 Delay			
<i>CallTimer[9].DN - LL/Logic - 101(XIC)</i>			
CallTimer[10]		TIMER	
2-1 Delay			
<i>CallTimer[10] - LL/Logic - *102(TON)</i>			
CallTimer[10].PRE	0	DINT	
2-1 Delay			
<i>CallTimer[10].PRE - LL/Logic - *102(MOV), 102(CPT)</i>			
CallTimer[10].ACC	0	DINT	
2-1 Delay			
<i>CallTimer[10].ACC - LL/Logic - 102(CPT)</i>			
CallTimer[10].EN	0	BOOL	
2-1 Delay			
CallTimer[10].TT	0	BOOL	
2-1 Delay			
CallTimer[10].DN	0	BOOL	
2-1 Delay			
<i>CallTimer[10].DN - LL/Logic - 102(XIC)</i>			
CallTimer[11]		TIMER	
1-0 Delay			
<i>CallTimer[11] - LL/Logic - *103(TON)</i>			
CallTimer[11].PRE	0	DINT	
1-0 Delay			
<i>CallTimer[11].PRE - LL/Logic - *103(MOV), 103(CPT)</i>			
CallTimer[11].ACC	0	DINT	
1-0 Delay			
<i>CallTimer[11].ACC - LL/Logic - 103(CPT)</i>			
CallTimer[11].EN	0	BOOL	
1-0 Delay			
CallTimer[11].TT	0	BOOL	
1-0 Delay			
CallTimer[11].DN	0	BOOL	
1-0 Delay			
<i>CallTimer[11].DN - LL/Logic - 103(XIC)</i>			
Control		LL_Control	LL
Usage:	Local Tag		
External Access:	Read/Write		
Control.AlternationMode	0	DINT	
<i>Control.AlternationMode - LL/EnableInFalse - *0(MOV), *7(MOV), 7(MOV), 7(NEQ)</i>			
<i>Control.AlternationMode - LL/Logic - *0(MOV), *7(MOV), 7(MOV), 7(NEQ)</i>			
Control.AlternationPRE	0	DINT	
<i>Control.AlternationPRE - LL/EnableInFalse - *0(MOV), *8(MOV), 8(MOV), 8(NEQ)</i>			
<i>Control.AlternationPRE - LL/Logic - *0(MOV), *8(MOV), 8(MOV), 8(NEQ)</i>			
Control.AlternationACC	0	DINT	
<i>Control.AlternationACC - LL/EnableInFalse - *0(MOV), *9(MOV), 9(MOV), 9(NEQ)</i>			
<i>Control.AlternationACC - LL/Logic - *0(MOV), *9(MOV), 9(MOV), 9(NEQ)</i>			
Control.NextCall	0	DINT	
<i>Control.NextCall - LL/EnableInFalse - *0(MOV), *10(MOV), 10(MOV), 10(NEQ)</i>			
<i>Control.NextCall - LL/Logic - *0(MOV), *10(MOV), 10(MOV), 10(NEQ)</i>			
Control.Position1SP	0	DINT	
<i>Control.Position1SP - LL/EnableInFalse - *0(MOV), *11(MOV), 11(MOV), 11(NEQ)</i>			
<i>Control.Position1SP - LL/Logic - *0(MOV), *11(MOV), 11(MOV), 11(NEQ)</i>			
Control.Position2SP	0	DINT	
<i>Control.Position2SP - LL/EnableInFalse - *0(MOV), *12(MOV), 12(MOV), 12(NEQ)</i>			
<i>Control.Position2SP - LL/Logic - *0(MOV), *12(MOV), 12(MOV), 12(NEQ)</i>			
Control.Position3SP	0	DINT	
<i>Control.Position3SP - LL/EnableInFalse - *0(MOV), *13(MOV), 13(MOV), 13(NEQ)</i>			
<i>Control.Position3SP - LL/Logic - *0(MOV), *13(MOV), 13(MOV), 13(NEQ)</i>			
Control.Position4SP	0	DINT	

Control (Continued)

*Control.Position4SP - LL/EnableInFalse - *0(MOV), *14(MOV), 14(MOV), 14(NEQ)*

*Control.Position4SP - LL/Logic - *0(MOV), *14(MOV), 14(MOV), 14(NEQ)*

Control.Position5SP 0 DINT

*Control.Position5SP - LL/EnableInFalse - *0(MOV), *15(MOV), 15(MOV), 15(NEQ)*

*Control.Position5SP - LL/Logic - *0(MOV), *15(MOV), 15(MOV), 15(NEQ)*

Control.Position6SP 0 DINT

*Control.Position6SP - LL/EnableInFalse - *0(MOV), *16(MOV), 16(MOV), 16(NEQ)*

*Control.Position6SP - LL/Logic - *0(MOV), *16(MOV), 16(MOV), 16(NEQ)*

Control.Delay0_1 0 DINT

*Control.Delay0_1 - LL/EnableInFalse - *0(MOV), *17(MOV), 17(MOV), 17(NEQ)*

*Control.Delay0_1 - LL/Logic - *0(MOV), *17(MOV), 17(MOV), 17(NEQ)*

Control.Delay1_2 0 DINT

*Control.Delay1_2 - LL/EnableInFalse - *0(MOV), *18(MOV), 18(MOV), 18(NEQ)*

*Control.Delay1_2 - LL/Logic - *0(MOV), *18(MOV), 18(MOV), 18(NEQ)*

Control.Delay2_3 0 DINT

*Control.Delay2_3 - LL/EnableInFalse - *0(MOV), *19(MOV), 19(MOV), 19(NEQ)*

*Control.Delay2_3 - LL/Logic - *0(MOV), *19(MOV), 19(MOV), 19(NEQ)*

Control.Delay3_4 0 DINT

*Control.Delay3_4 - LL/EnableInFalse - *0(MOV), *20(MOV), 20(MOV), 20(NEQ)*

*Control.Delay3_4 - LL/Logic - *0(MOV), *20(MOV), 20(MOV), 20(NEQ)*

Control.Delay4_5 0 DINT

*Control.Delay4_5 - LL/EnableInFalse - *0(MOV), *21(MOV), 21(MOV), 21(NEQ)*

*Control.Delay4_5 - LL/Logic - *0(MOV), *21(MOV), 21(MOV), 21(NEQ)*

Control.Delay5_6 0 DINT

*Control.Delay5_6 - LL/EnableInFalse - *0(MOV), *22(MOV), 22(MOV), 22(NEQ)*

*Control.Delay5_6 - LL/Logic - *0(MOV), *22(MOV), 22(MOV), 22(NEQ)*

Control.Delay6_5 0 DINT

*Control.Delay6_5 - LL/EnableInFalse - *0(MOV), *23(MOV), 23(MOV), 23(NEQ)*

*Control.Delay6_5 - LL/Logic - *0(MOV), *23(MOV), 23(MOV), 23(NEQ)*

Control.Delay5_4 0 DINT

*Control.Delay5_4 - LL/EnableInFalse - *0(MOV), *24(MOV), 24(MOV), 24(NEQ)*

*Control.Delay5_4 - LL/Logic - *0(MOV), *24(MOV), 24(MOV), 24(NEQ)*

Control.Delay4_3 0 DINT

*Control.Delay4_3 - LL/EnableInFalse - *0(MOV), *25(MOV), 25(MOV), 25(NEQ)*

*Control.Delay4_3 - LL/Logic - *0(MOV), *25(MOV), 25(MOV), 25(NEQ)*

Control.Delay3_2 0 DINT

*Control.Delay3_2 - LL/EnableInFalse - *0(MOV), *26(MOV), 26(MOV), 26(NEQ)*

*Control.Delay3_2 - LL/Logic - *0(MOV), *26(MOV), 26(MOV), 26(NEQ)*

Control.Delay2_1 0 DINT

*Control.Delay2_1 - LL/EnableInFalse - *0(MOV), *27(MOV), 27(MOV), 27(NEQ)*

*Control.Delay2_1 - LL/Logic - *0(MOV), *27(MOV), 27(MOV), 27(NEQ)*

Control.Delay1_0 0 DINT

*Control.Delay1_0 - LL/EnableInFalse - *0(MOV), *28(MOV), 28(MOV), 28(NEQ)*

*Control.Delay1_0 - LL/Logic - *0(MOV), *28(MOV), 28(MOV), 28(NEQ)*

CountCompare 0 DINT LL

Usage: Local Tag

External Access: None

*CountCompare - LL/Logic - *109(MOV), 109(GRT), 109(LES), 109(NEQ)*

FS_ONS 0 BOOL LL

Usage: Local Tag

External Access: None

*FS_ONS - LL/EnableInFalse - *0(ONS)*

*FS_ONS - LL/Logic - *0(ONS)*

LeastHoursReady 0 DINT LL

Usage: Local Tag

External Access: Read/Write

*LeastHoursReady - LL/Logic - *68(CLR), *69(MOV), *70(MOV), *71(MOV), *72(MOV), *73(MOV), *74(MOV), 77(EQU), 78(EQU), 79(EQU), 80(EQU), 81(EQU), 82(EQU)*

NotReady1OS	0	BOOL	LL
Usage:	Local Tag		
External Access:	Read/Write		
<i>NotReady1OS - LL/EnableInFalse - *0(OTU)</i>			
<i>NotReady1OS - LL/Logic - *0(OTU), *39(ONS)</i>			
NotReady2OS	0	BOOL	LL
Usage:	Local Tag		
External Access:	Read/Write		
<i>NotReady2OS - LL/EnableInFalse - *0(OTU)</i>			
<i>NotReady2OS - LL/Logic - *0(OTU), *43(ONS)</i>			
NotReady3OS	0	BOOL	LL
Usage:	Local Tag		
External Access:	Read/Write		
<i>NotReady3OS - LL/EnableInFalse - *0(OTU)</i>			
<i>NotReady3OS - LL/Logic - *0(OTU), *47(ONS)</i>			
NotReady4OS	0	BOOL	LL
Usage:	Local Tag		
External Access:	Read/Write		
<i>NotReady4OS - LL/EnableInFalse - *0(OTU)</i>			
<i>NotReady4OS - LL/Logic - *0(OTU), *51(ONS)</i>			
NotReady5OS	0	BOOL	LL
Usage:	Local Tag		
External Access:	None		
<i>NotReady5OS - LL/EnableInFalse - *0(OTU)</i>			
<i>NotReady5OS - LL/Logic - *0(OTU), *55(ONS)</i>			
NotReady6OS	0	BOOL	LL
Usage:	Local Tag		
External Access:	None		
<i>NotReady6OS - LL/EnableInFalse - *0(OTU)</i>			
<i>NotReady6OS - LL/Logic - *0(OTU), *59(ONS)</i>			
Position1Temp	0	DINT	LL
Usage:	Local Tag		
External Access:	Read/Write		
<i>Position1Temp - LL/Logic - *67(CLR), *77(MOV), 69(EQU), 75(NEQ), 77(EQU), 83(MOV)</i>			
Position2Temp	0	DINT	LL
Usage:	Local Tag		
External Access:	Read/Write		
<i>Position2Temp - LL/Logic - *67(CLR), *78(MOV), 70(EQU), 75(NEQ), 78(EQU), 83(MOV)</i>			
Position3Temp	0	DINT	LL
Usage:	Local Tag		
External Access:	Read/Write		
<i>Position3Temp - LL/Logic - *67(CLR), *79(MOV), 71(EQU), 75(NEQ), 79(EQU), 83(MOV)</i>			
Position4Temp	0	DINT	LL
Usage:	Local Tag		
External Access:	Read/Write		
<i>Position4Temp - LL/Logic - *67(CLR), *80(MOV), 72(EQU), 75(NEQ), 80(EQU), 83(MOV)</i>			
Position5Temp	0	DINT	LL
Usage:	Local Tag		
External Access:	None		
<i>Position5Temp - LL/Logic - *67(CLR), *81(MOV), 73(EQU), 75(NEQ), 81(EQU), 83(MOV)</i>			
Position6Temp	0	DINT	LL
Usage:	Local Tag		

Position6Temp (Continued)

External Access: None
*Position6Temp - LL/Logic - *67(CLR), *82(MOV), 74(EQU), 75(NEQ), 82(EQU), 83(MOV)*

PositionToAssign

0 DINT LL
 Usage: Local Tag
 External Access: Read/Write
*PositionToAssign - LL/Logic - *75(ADD), *75(MOV), 75(ADD), 77(MOV), 78(MOV), 79(MOV), 80(MOV), 81(MOV), 82(MOV)*

PumpStopOS

0 BOOL LL
 Usage: Local Tag
 External Access: Read/Write
*PumpStopOS - LL/Logic - *63(OTE), 42(XIC), 46(XIC), 50(XIC), 54(XIC), 58(XIC), 62(XIC), 67(XIC)*

Ready1OS

0 BOOL LL
 Usage: Local Tag
 External Access: Read/Write
*Ready1OS - LL/EnableInFalse - *0(OTU)*
*Ready1OS - LL/Logic - *0(OTU), *40(ONS)*

Ready2OS

0 BOOL LL
 Usage: Local Tag
 External Access: Read/Write
*Ready2OS - LL/EnableInFalse - *0(OTU)*
*Ready2OS - LL/Logic - *0(OTU), *44(ONS)*

Ready3OS

0 BOOL LL
 Usage: Local Tag
 External Access: Read/Write
*Ready3OS - LL/EnableInFalse - *0(OTU)*
*Ready3OS - LL/Logic - *0(OTU), *48(ONS)*

Ready4OS

0 BOOL LL
 Usage: Local Tag
 External Access: Read/Write
*Ready4OS - LL/EnableInFalse - *0(OTU)*
*Ready4OS - LL/Logic - *0(OTU), *52(ONS)*

Ready5OS

0 BOOL LL
 Usage: Local Tag
 External Access: None
*Ready5OS - LL/EnableInFalse - *0(OTU)*
*Ready5OS - LL/Logic - *0(OTU), *56(ONS)*

Ready6OS

0 BOOL LL
 Usage: Local Tag
 External Access: None
*Ready6OS - LL/EnableInFalse - *0(OTU)*
*Ready6OS - LL/Logic - *0(OTU), *60(ONS)*

RunHoursCompare

0 DINT LL
 Usage: Local Tag
 External Access: Read/Write
*RunHoursCompare - LL/Logic - *68(MOV), *69(MOV), *70(MOV), *71(MOV), *72(MOV), *73(MOV), *74(MOV), 69(LEQ), 70(LEQ), 71(LEQ), 72(LEQ), 73(LEQ), 74(LEQ)*

ScanCount

0 DINT LL
 Usage: Local Tag
 External Access: Read/Write
*ScanCount - LL/Logic - *75(ADD), *83(CLR), 75(ADD), 83(CMP)*

SortingTrigger

0 BOOL LL
 Usage: Local Tag

Sorting Trigger (Continued)

External Access: Read/Write
*SortingTrigger - LL/Logic - *67(OTL), *83(OTU), 75(XIC), 77(XIC), 78(XIC), 79(XIC), 80(XIC), 81(XIC), 82(XIC), 83(XIC)*

SP1OS 0 BOOL LL
 Usage: Local Tag
 External Access: None
*SP1OS - LL/Logic - *29(ONS)*

SP2OS 0 BOOL LL
 Usage: Local Tag
 External Access: None
*SP2OS - LL/Logic - *30(ONS)*

SP3OS 0 BOOL LL
 Usage: Local Tag
 External Access: None
*SP3OS - LL/Logic - *31(ONS)*

SP4OS 0 BOOL LL
 Usage: Local Tag
 External Access: None
*SP4OS - LL/Logic - *32(ONS)*

SP5OS 0 BOOL LL
 Usage: Local Tag
 External Access: None
*SP5OS - LL/Logic - *33(ONS)*

SP6OS 0 BOOL LL
 Usage: Local Tag
 External Access: None
*SP6OS - LL/Logic - *34(ONS)*

Status LL_Status LL
 Usage: Local Tag
 External Access: Read Only

Status.AlternationMode 0 DINT
*Status.AlternationMode - LL/EnableInFalse - *1(MOV)*
*Status.AlternationMode - LL/Logic - *1(MOV)*

Status.AlternationPRE 0 DINT
*Status.AlternationPRE - LL/EnableInFalse - *1(MOV)*
*Status.AlternationPRE - LL/Logic - *1(MOV)*

Status.AlternationACC 0 DINT
*Status.AlternationACC - LL/EnableInFalse - *1(MOV)*
*Status.AlternationACC - LL/Logic - *1(MOV)*

Status.Position1SP 0 DINT
*Status.Position1SP - LL/EnableInFalse - *2(MOV)*
*Status.Position1SP - LL/Logic - *2(MOV)*

Status.Position2SP 0 DINT
*Status.Position2SP - LL/EnableInFalse - *2(MOV)*
*Status.Position2SP - LL/Logic - *2(MOV)*

Status.Position3SP 0 DINT
*Status.Position3SP - LL/EnableInFalse - *2(MOV)*
*Status.Position3SP - LL/Logic - *2(MOV)*

Status.Position4SP 0 DINT
*Status.Position4SP - LL/EnableInFalse - *2(MOV)*
*Status.Position4SP - LL/Logic - *2(MOV)*

Status.Position5SP 0 DINT
*Status.Position5SP - LL/EnableInFalse - *2(MOV)*
*Status.Position5SP - LL/Logic - *2(MOV)*

Status.Position6SP 0 DINT
*Status.Position6SP - LL/EnableInFalse - *2(MOV)*

Status (Continued)

<i>Status.Position6SP - LL/Logic - *2(MOV)</i>	
Status.Position1	0 DINT
<i>Status.Position1 - LL/EnableInFalse - *3(MOV)</i>	
<i>Status.Position1 - LL/Logic - *3(MOV)</i>	
Status.Position2	0 DINT
<i>Status.Position2 - LL/EnableInFalse - *3(MOV)</i>	
<i>Status.Position2 - LL/Logic - *3(MOV)</i>	
Status.Position3	0 DINT
<i>Status.Position3 - LL/EnableInFalse - *3(MOV)</i>	
<i>Status.Position3 - LL/Logic - *3(MOV)</i>	
Status.Position4	0 DINT
<i>Status.Position4 - LL/EnableInFalse - *3(MOV)</i>	
<i>Status.Position4 - LL/Logic - *3(MOV)</i>	
Status.Position5	0 DINT
<i>Status.Position5 - LL/EnableInFalse - *3(MOV)</i>	
<i>Status.Position5 - LL/Logic - *3(MOV)</i>	
Status.Position6	0 DINT
<i>Status.Position6 - LL/EnableInFalse - *3(MOV)</i>	
<i>Status.Position6 - LL/Logic - *3(MOV)</i>	
Status.Delay0_1	0 DINT
<i>Status.Delay0_1 - LL/EnableInFalse - *4(MOV)</i>	
<i>Status.Delay0_1 - LL/Logic - *4(MOV)</i>	
Status.Delay1_2	0 DINT
<i>Status.Delay1_2 - LL/EnableInFalse - *4(MOV)</i>	
<i>Status.Delay1_2 - LL/Logic - *4(MOV)</i>	
Status.Delay2_3	0 DINT
<i>Status.Delay2_3 - LL/EnableInFalse - *4(MOV)</i>	
<i>Status.Delay2_3 - LL/Logic - *4(MOV)</i>	
Status.Delay3_4	0 DINT
<i>Status.Delay3_4 - LL/EnableInFalse - *4(MOV)</i>	
<i>Status.Delay3_4 - LL/Logic - *4(MOV)</i>	
Status.Delay4_5	0 DINT
<i>Status.Delay4_5 - LL/EnableInFalse - *4(MOV)</i>	
<i>Status.Delay4_5 - LL/Logic - *4(MOV)</i>	
Status.Delay5_6	0 DINT
<i>Status.Delay5_6 - LL/EnableInFalse - *4(MOV)</i>	
<i>Status.Delay5_6 - LL/Logic - *4(MOV)</i>	
Status.Delay6_5	0 DINT
<i>Status.Delay6_5 - LL/EnableInFalse - *5(MOV)</i>	
<i>Status.Delay6_5 - LL/Logic - *5(MOV)</i>	
Status.Delay5_4	0 DINT
<i>Status.Delay5_4 - LL/EnableInFalse - *5(MOV)</i>	
<i>Status.Delay5_4 - LL/Logic - *5(MOV)</i>	
Status.Delay4_3	0 DINT
<i>Status.Delay4_3 - LL/EnableInFalse - *5(MOV)</i>	
<i>Status.Delay4_3 - LL/Logic - *5(MOV)</i>	
Status.Delay3_2	0 DINT
<i>Status.Delay3_2 - LL/EnableInFalse - *5(MOV)</i>	
<i>Status.Delay3_2 - LL/Logic - *5(MOV)</i>	
Status.Delay2_1	0 DINT
<i>Status.Delay2_1 - LL/EnableInFalse - *5(MOV)</i>	
<i>Status.Delay2_1 - LL/Logic - *5(MOV)</i>	
Status.Delay1_0	0 DINT
<i>Status.Delay1_0 - LL/EnableInFalse - *5(MOV)</i>	
<i>Status.Delay1_0 - LL/Logic - *5(MOV)</i>	
Status.NextCall	0 DINT
<i>Status.NextCall - LL/EnableInFalse - *6(MOV)</i>	
<i>Status.NextCall - LL/Logic - *6(MOV)</i>	
Status.NextCallCountDown	0 DINT
<i>Status.NextCallCountDown - LL/EnableInFalse - *6(MOV)</i>	
<i>Status.NextCallCountDown - LL/Logic - *6(MOV)</i>	
Status.NextCalled	0 DINT

Status (Continued)

*Status.NextCalled - LL/EnableInFalse - *6(MOV)*

*Status.NextCalled - LL/Logic - *6(MOV)*

Status.CalledCount 0 DINT

*Status.CalledCount - LL/EnableInFalse - *6(MOV)*

*Status.CalledCount - LL/Logic - *6(MOV)*

Status.ReadyCount 0 DINT

*Status.ReadyCount - LL/EnableInFalse - *6(MOV)*

*Status.ReadyCount - LL/Logic - *6(MOV)*

TimeRotateOS 0 BOOL LL

Usage: Local Tag

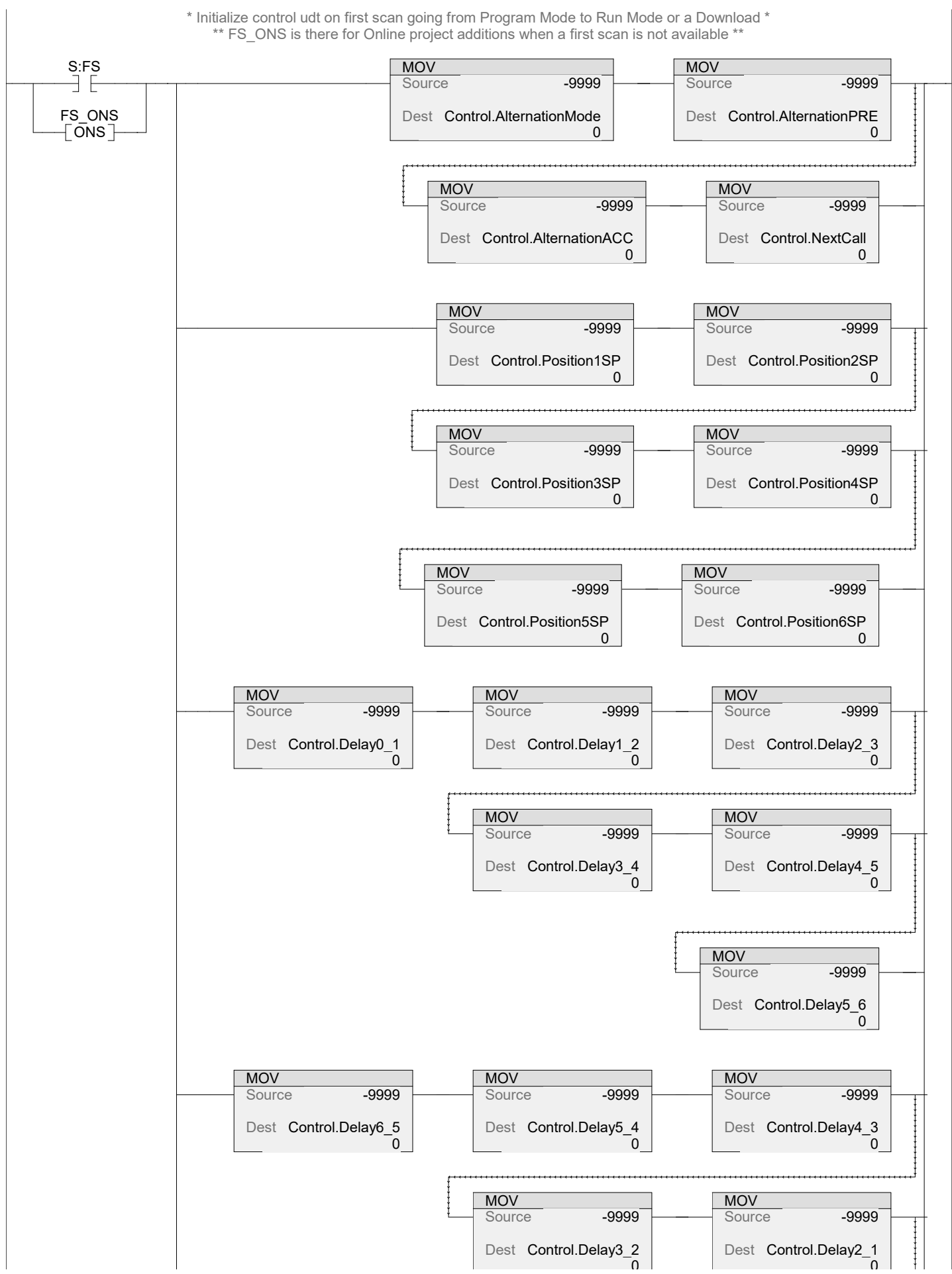
External Access: Read/Write

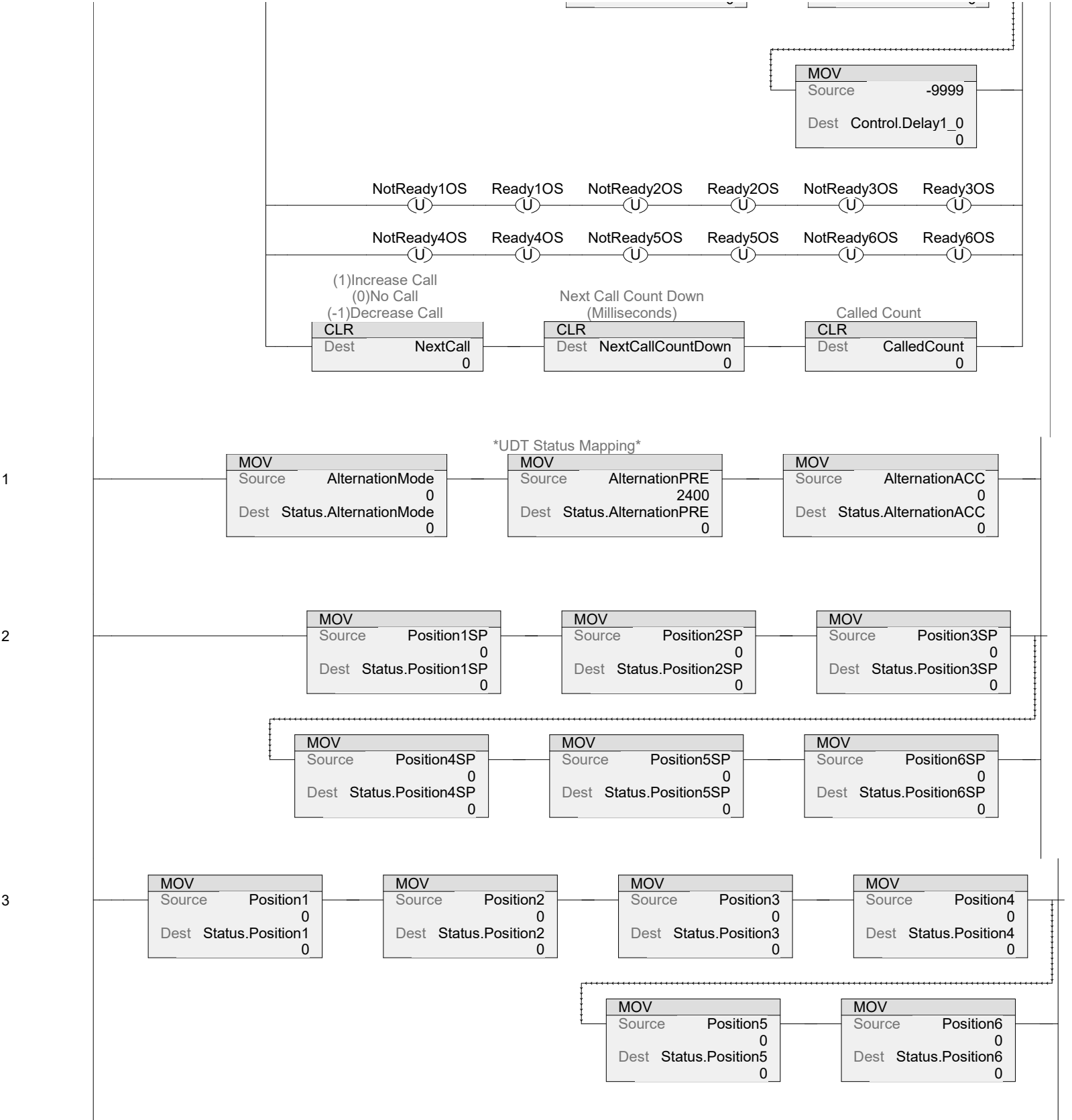
*TimeRotateOS - LL/Logic - *64(OTE), 42(XIC), 46(XIC), 50(XIC), 54(XIC), 58(XIC), 62(XIC), 67(XIC)*

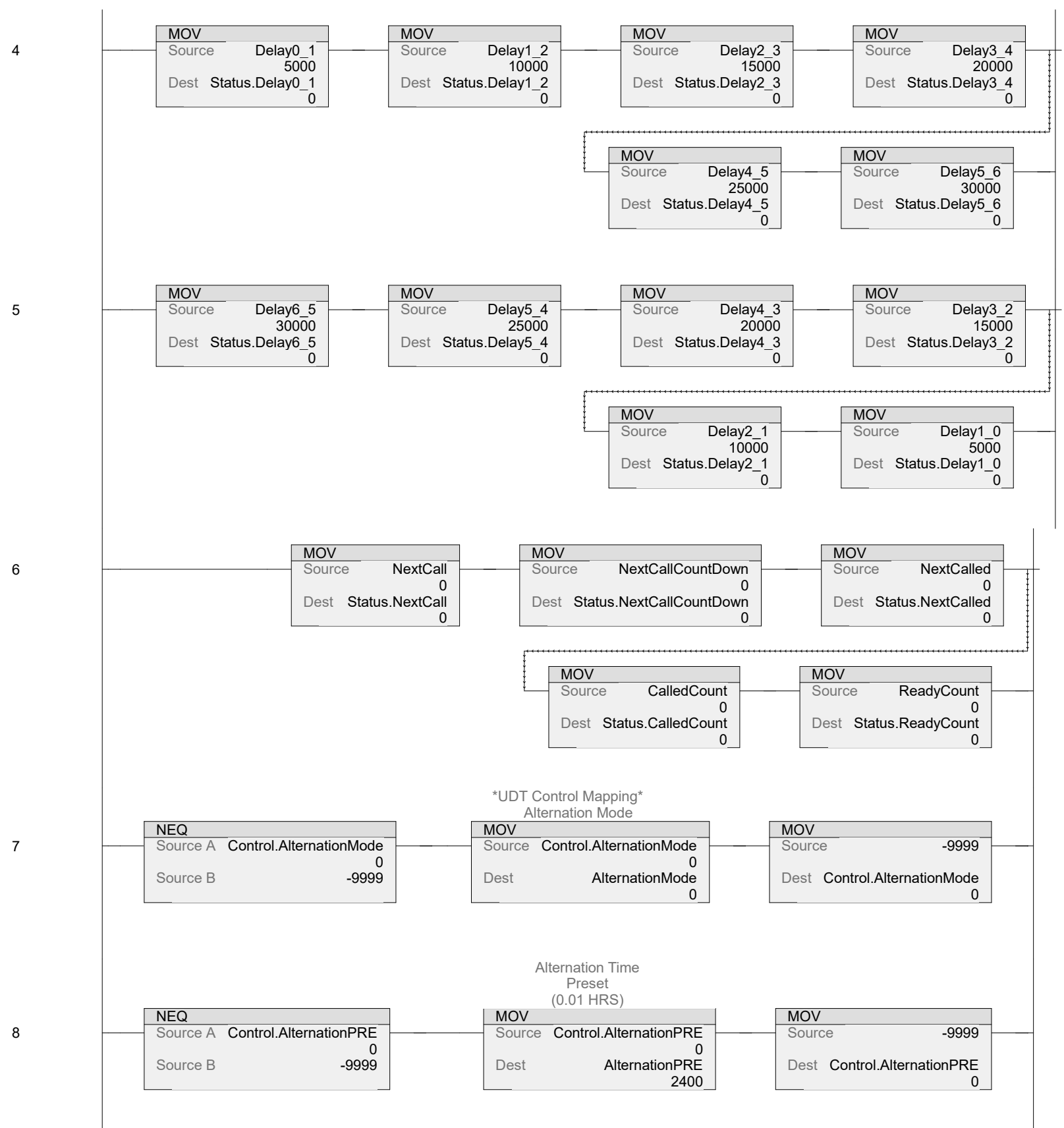
* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *

** FS_ONS is there for Online project additions when a first scan is not available **

0

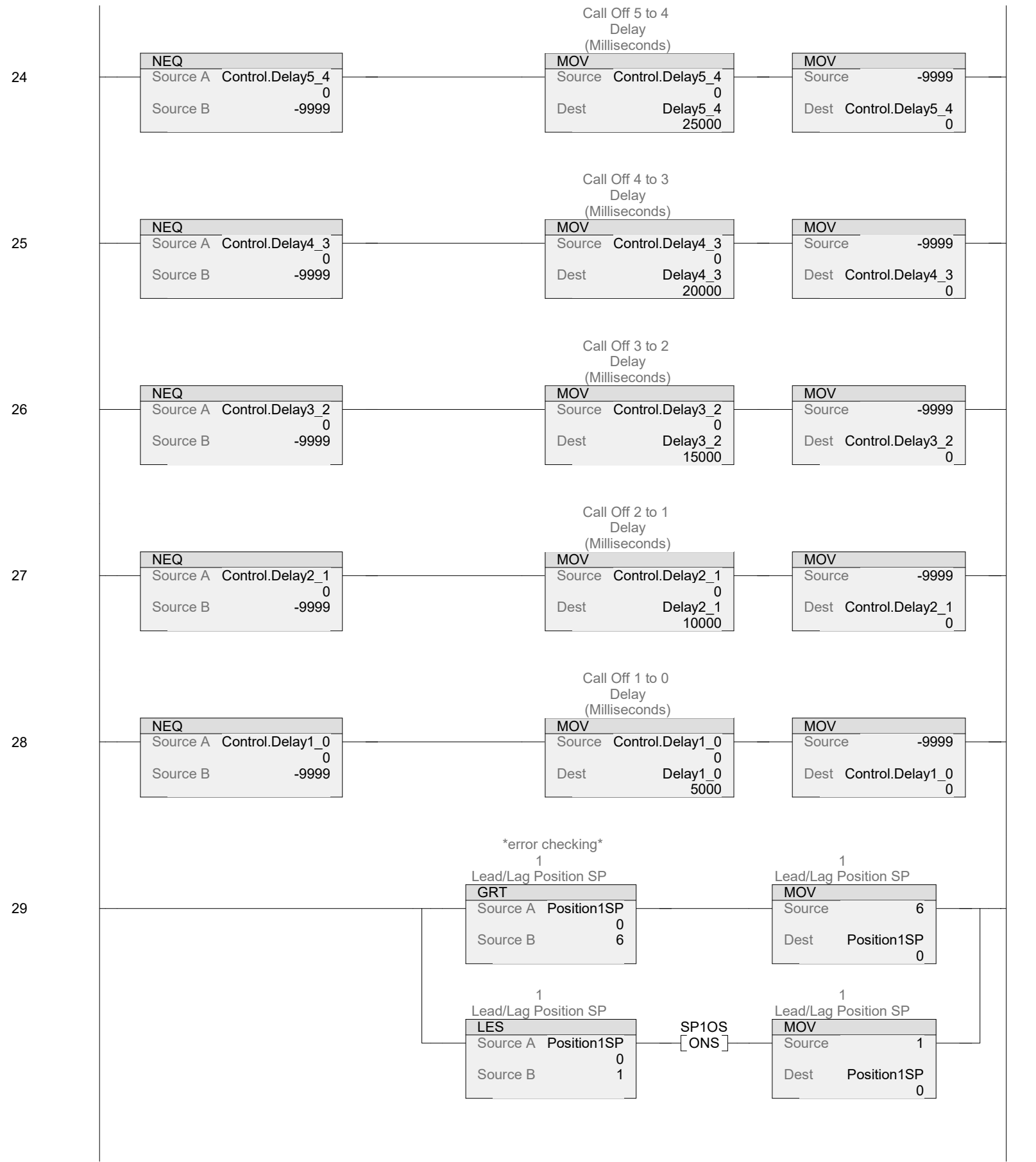


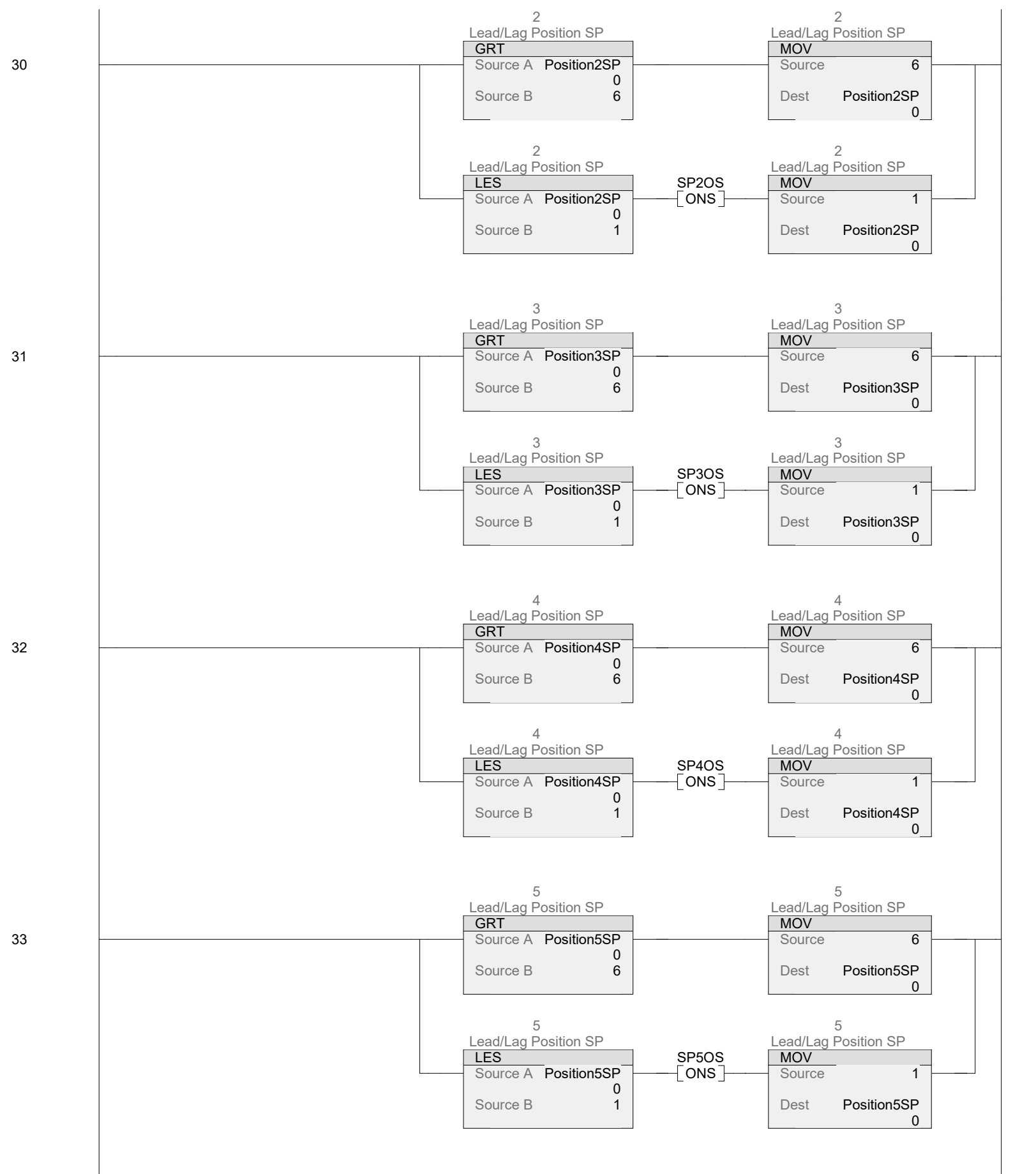


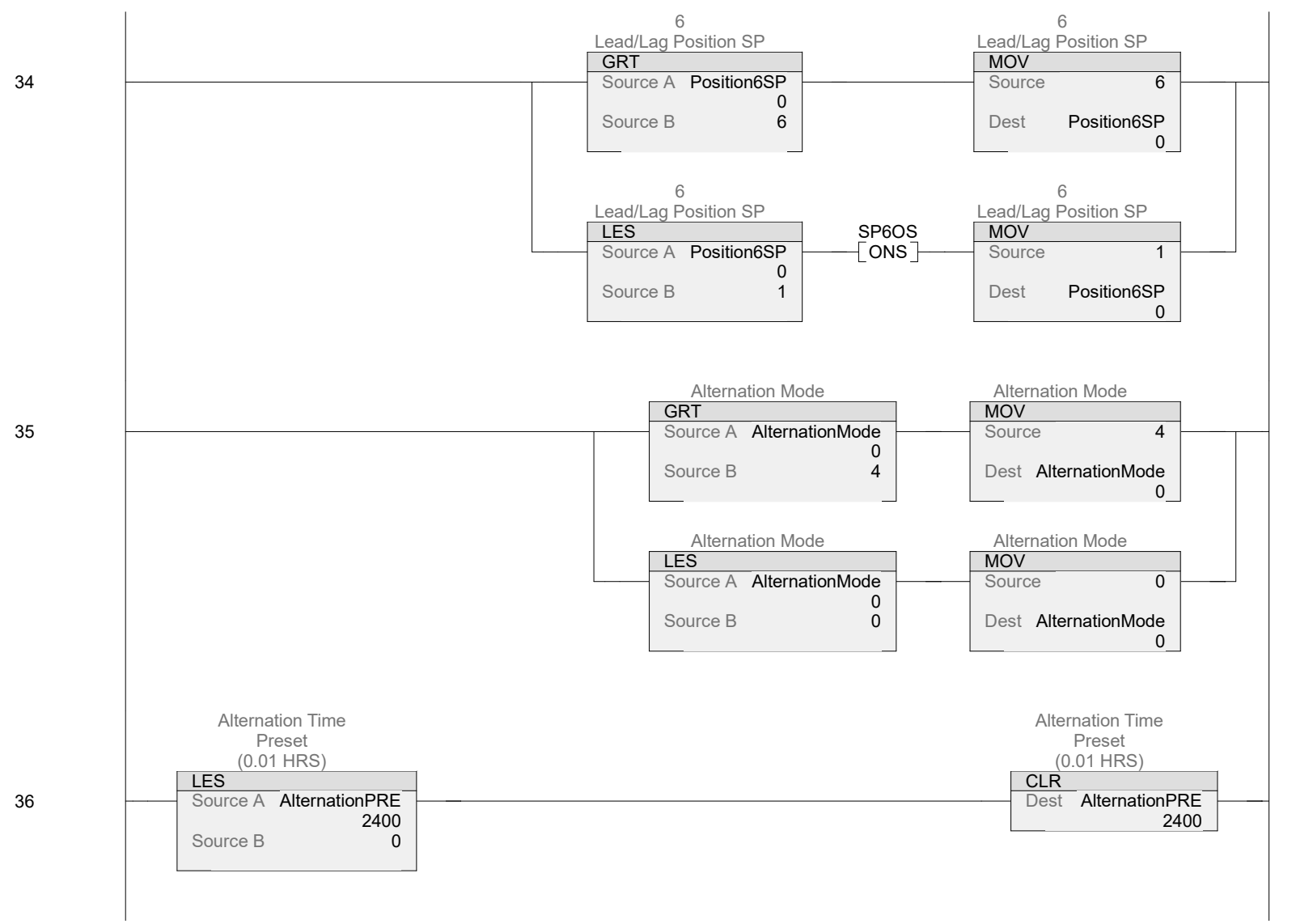






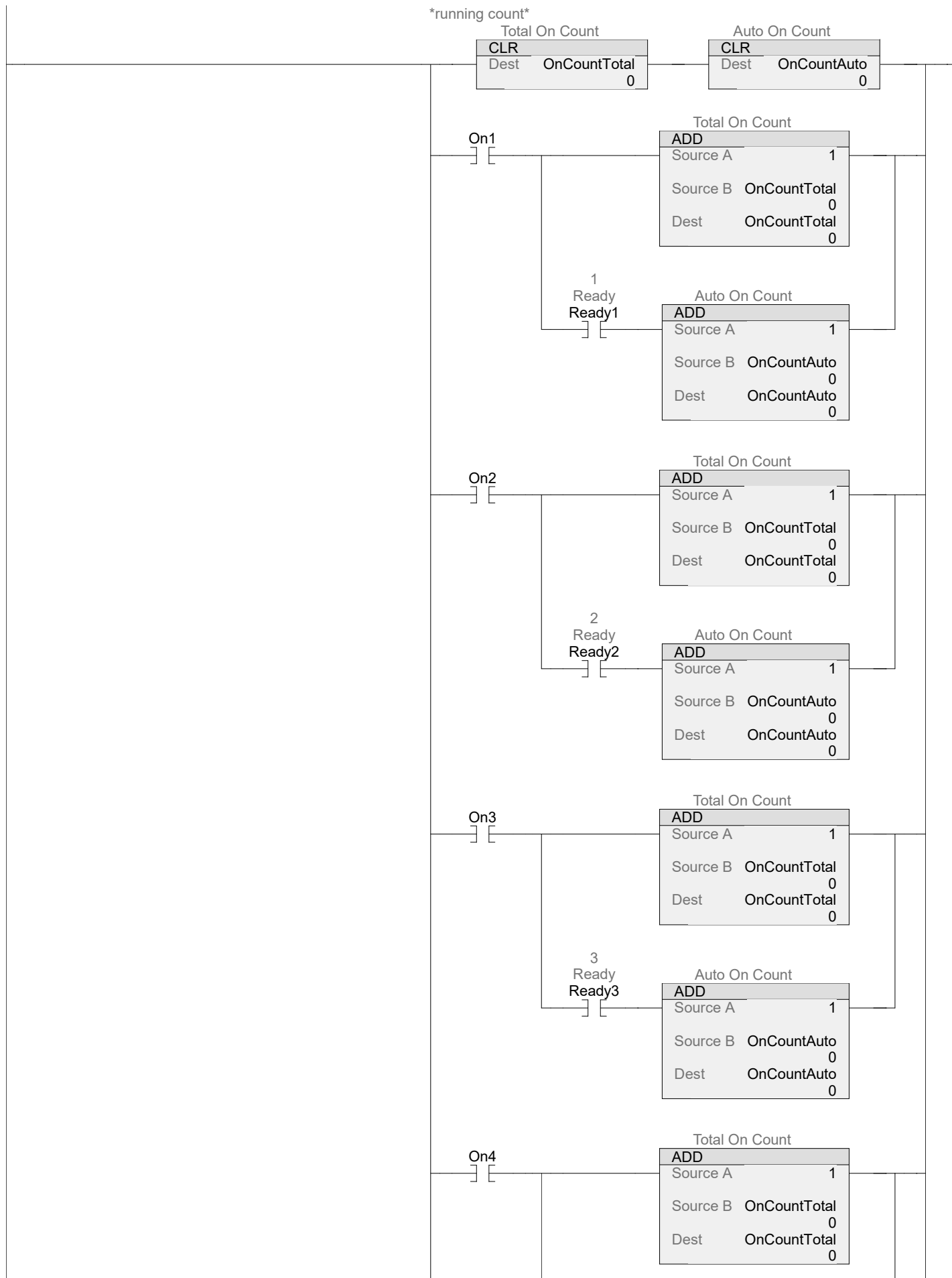


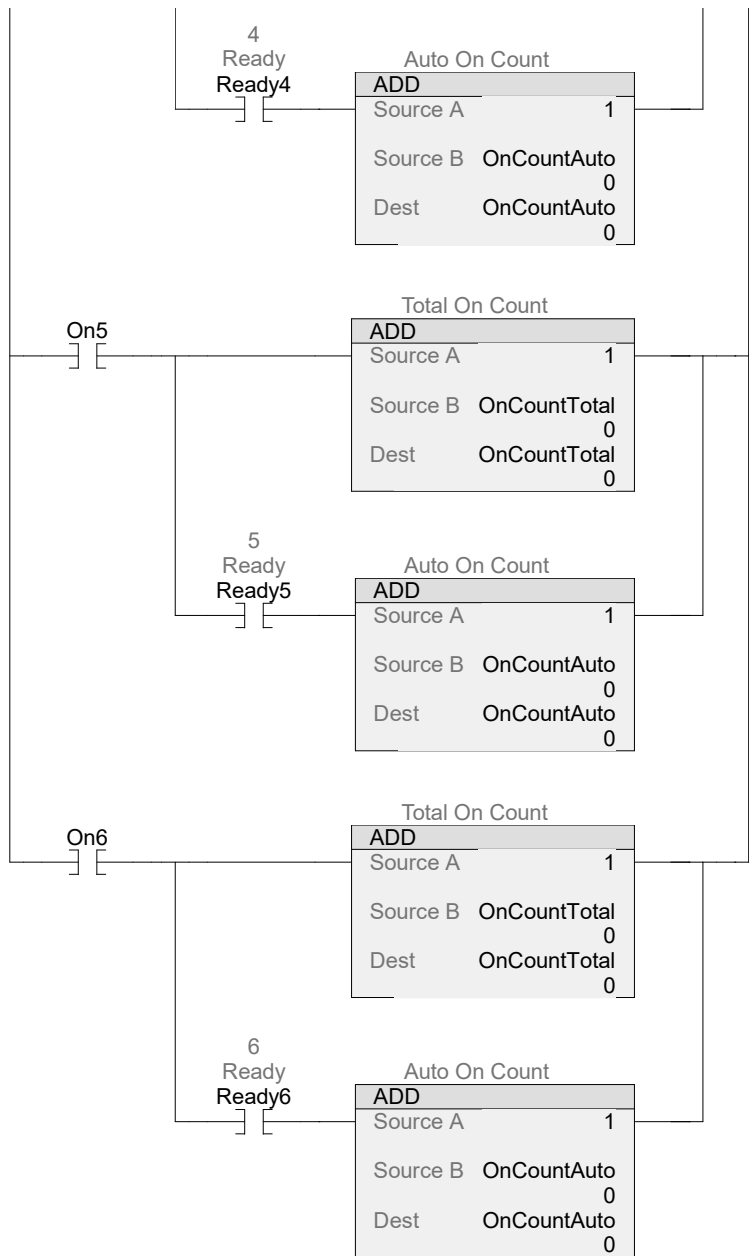




37

running count





38

Total On Count	
GEQ	
Source A	OnCountTotal
	0
Source B	OnCountMax
	1

Maximum Number of
Devices are Running
MaxOn

39

equipment 1 lead/lag logic

1
Ready
Ready1

1
Lead/Lag Position

NEQ	
Source A	Position1
	0
Source B	0
	0

NotReady1OS
[ONS]

2
Lead/Lag Position

GRT	
Source A	Position2
	0
Source B	Position1
	0

2
Lead/Lag Position

NEQ	
Source A	Position2
	0
Source B	0
	0

3
Lead/Lag Position

GRT	
Source A	Position3
	0
Source B	Position1
	0

3
Lead/Lag Position

NEQ	
Source A	Position3
	0
Source B	0
	0

4
Lead/Lag Position

GRT	
Source A	Position4
	0
Source B	Position1
	0

4
Lead/Lag Position

NEQ	
Source A	Position4
	0
Source B	0
	0

5
Lead/Lag Position

GRT	
Source A	Position5
	0
Source B	Position1
	0

5
Lead/Lag Position

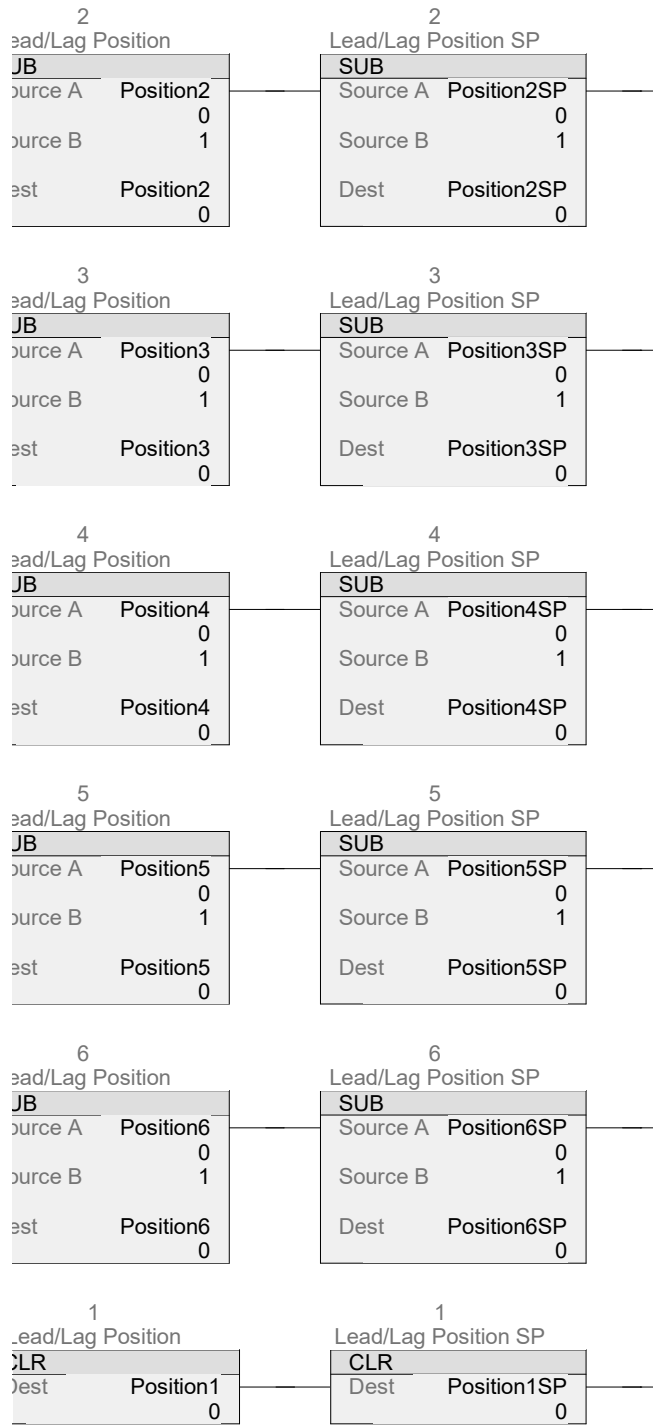
NEQ	
Source A	Position5
	0
Source B	0
	0

6
Lead/Lag Position

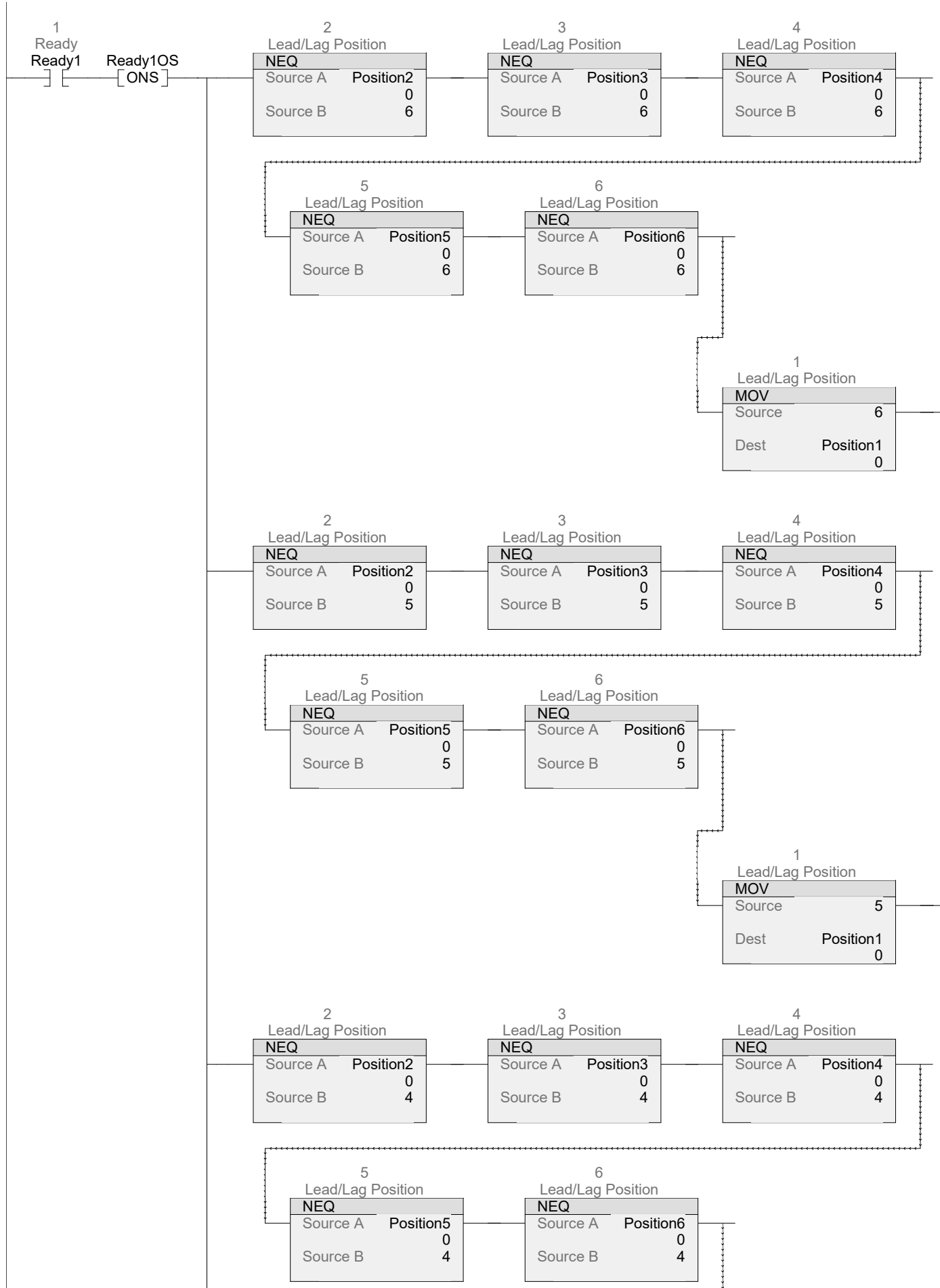
GRT	
Source A	Position6
	0
Source B	Position1
	0

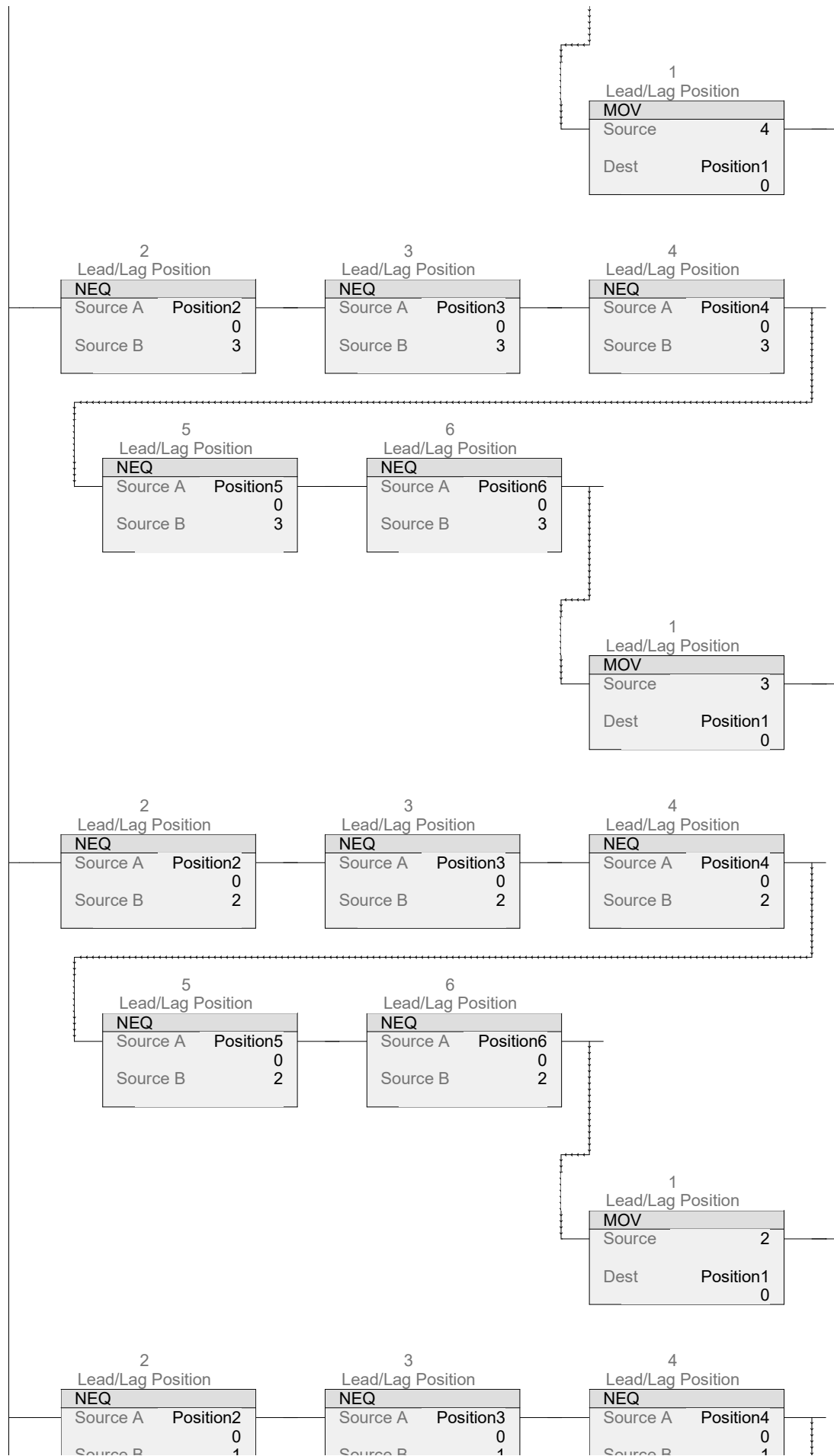
6
Lead/Lag Position

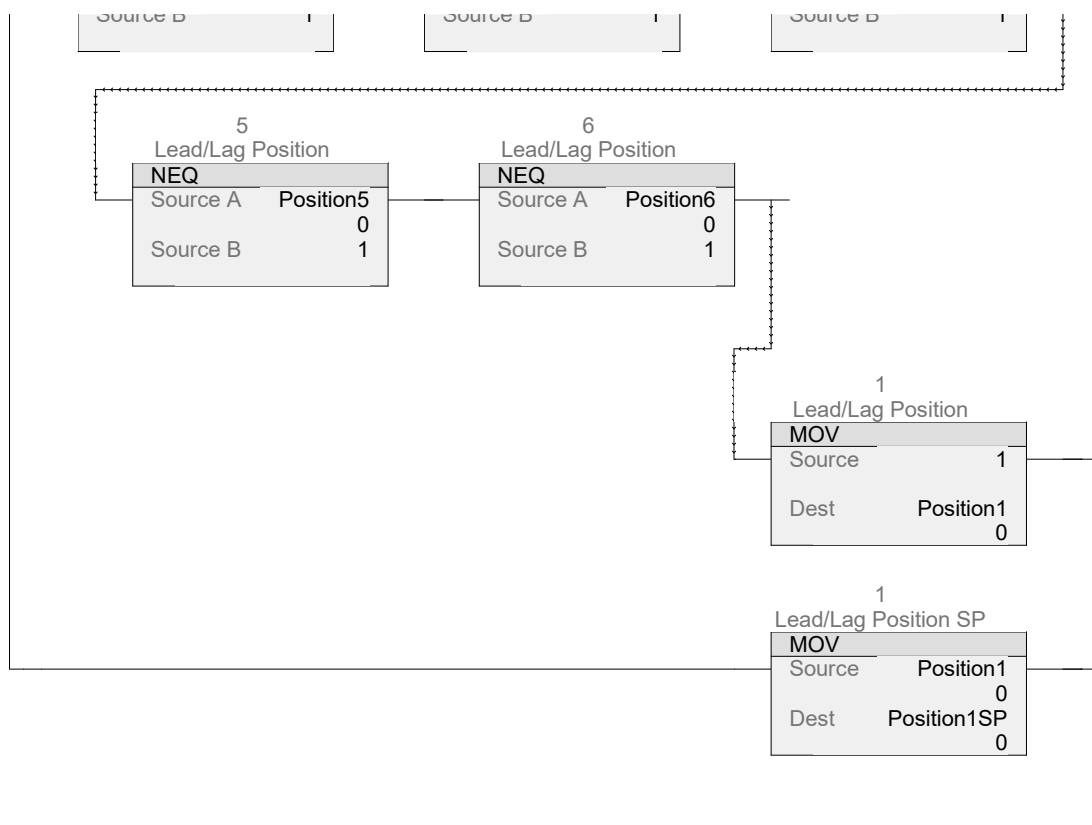
NEQ	
Source A	Position6
	0
Source B	0
	0



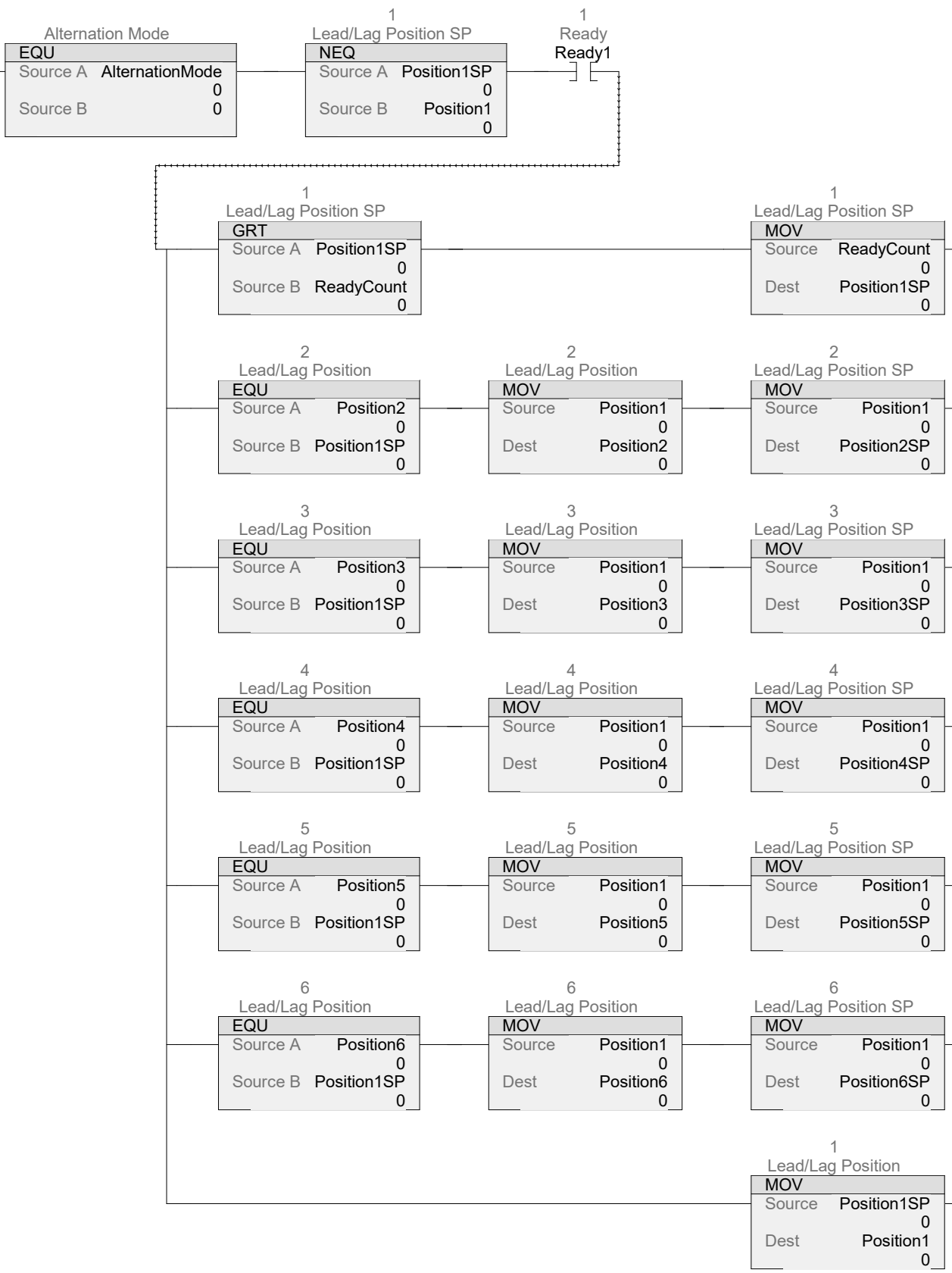
40



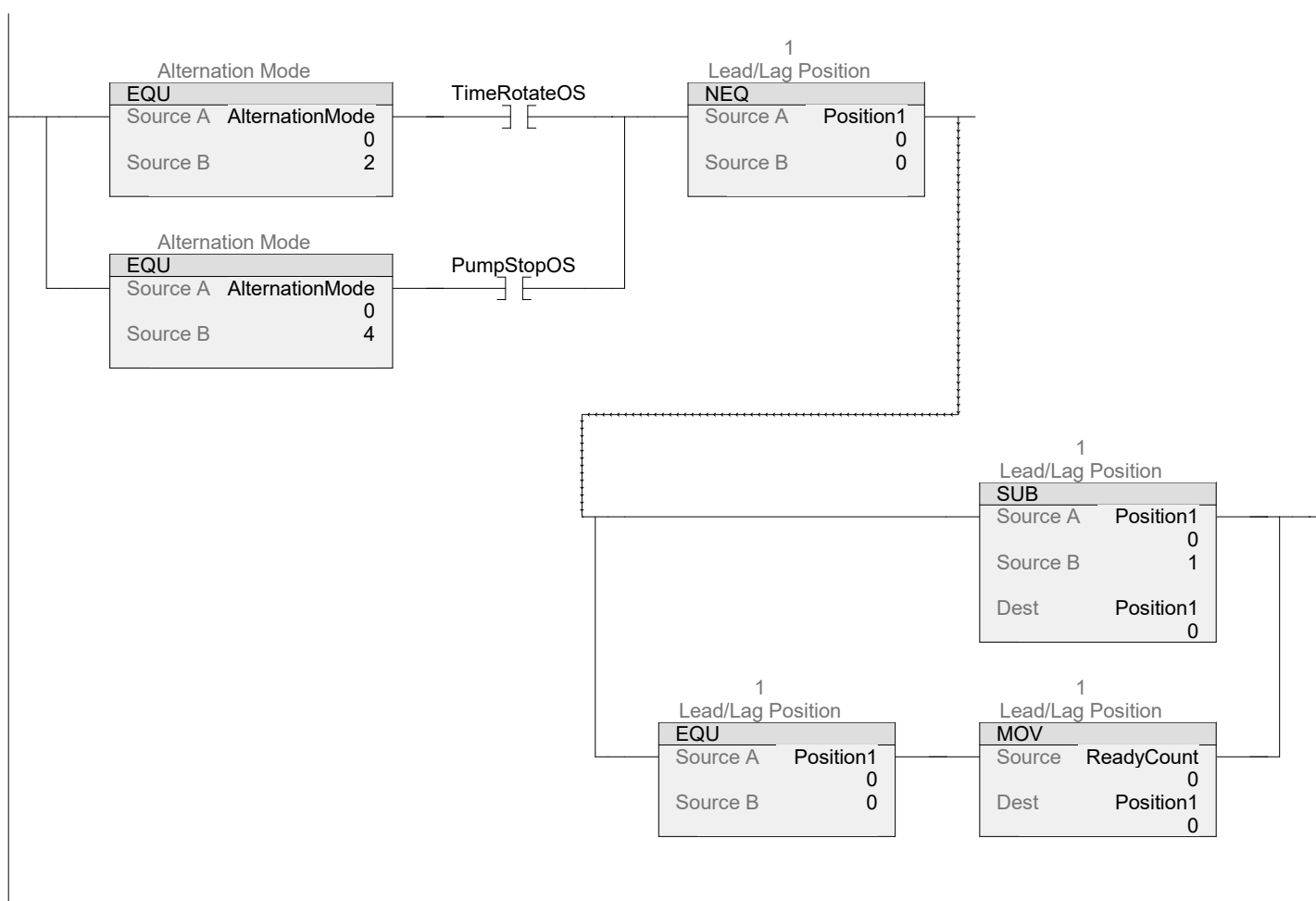




41



42



43

equipment 2 lead/lag logic

2
Ready
Ready2



2
Lead/Lag Position

NEQ	
Source A	Position2
	0
Source B	0
	0

NotReady2OS
[ONS]

1
Lead/Lag Position

GRT	
Source A	Position1
	0
Source B	Position2
	0

1
Lead/Lag Position

NEQ	
Source A	Position1
	0
Source B	0
	0

3
Lead/Lag Position

GRT	
Source A	Position3
	0
Source B	Position2
	0

3
Lead/Lag Position

NEQ	
Source A	Position3
	0
Source B	0
	0

4
Lead/Lag Position

GRT	
Source A	Position4
	0
Source B	Position2
	0

4
Lead/Lag Position

NEQ	
Source A	Position4
	0
Source B	0
	0

5
Lead/Lag Position

GRT	
Source A	Position5
	0
Source B	Position2
	0

5
Lead/Lag Position

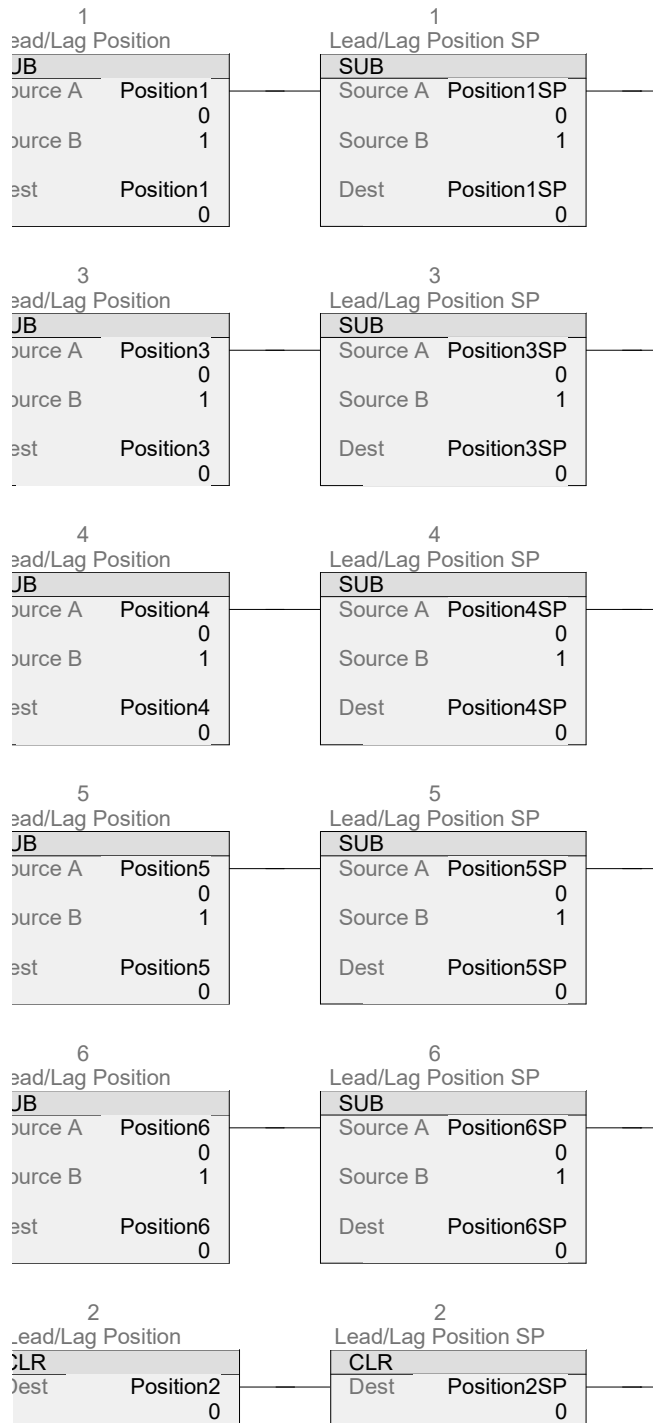
NEQ	
Source A	Position5
	0
Source B	0
	0

6
Lead/Lag Position

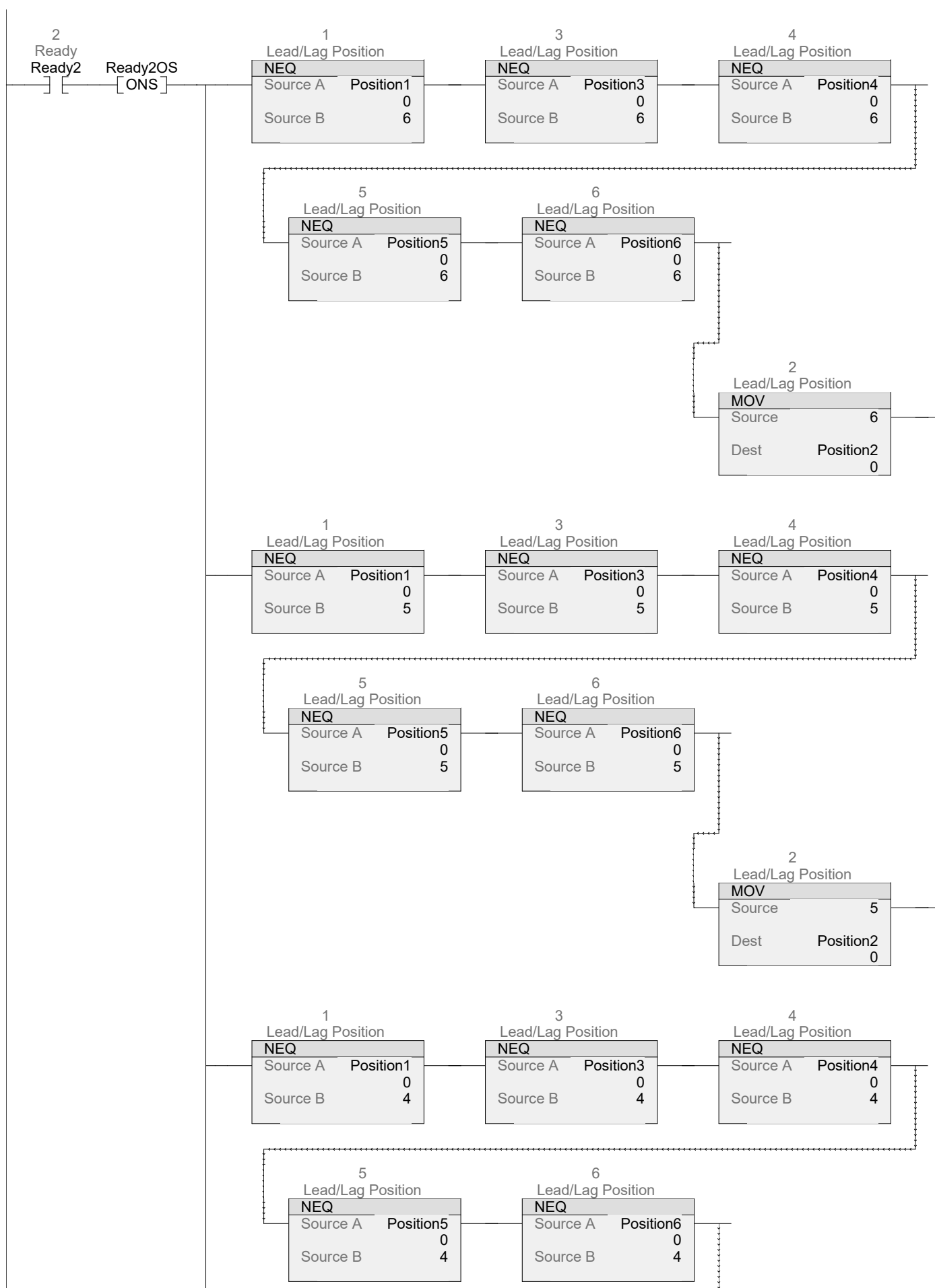
GRT	
Source A	Position6
	0
Source B	Position2
	0

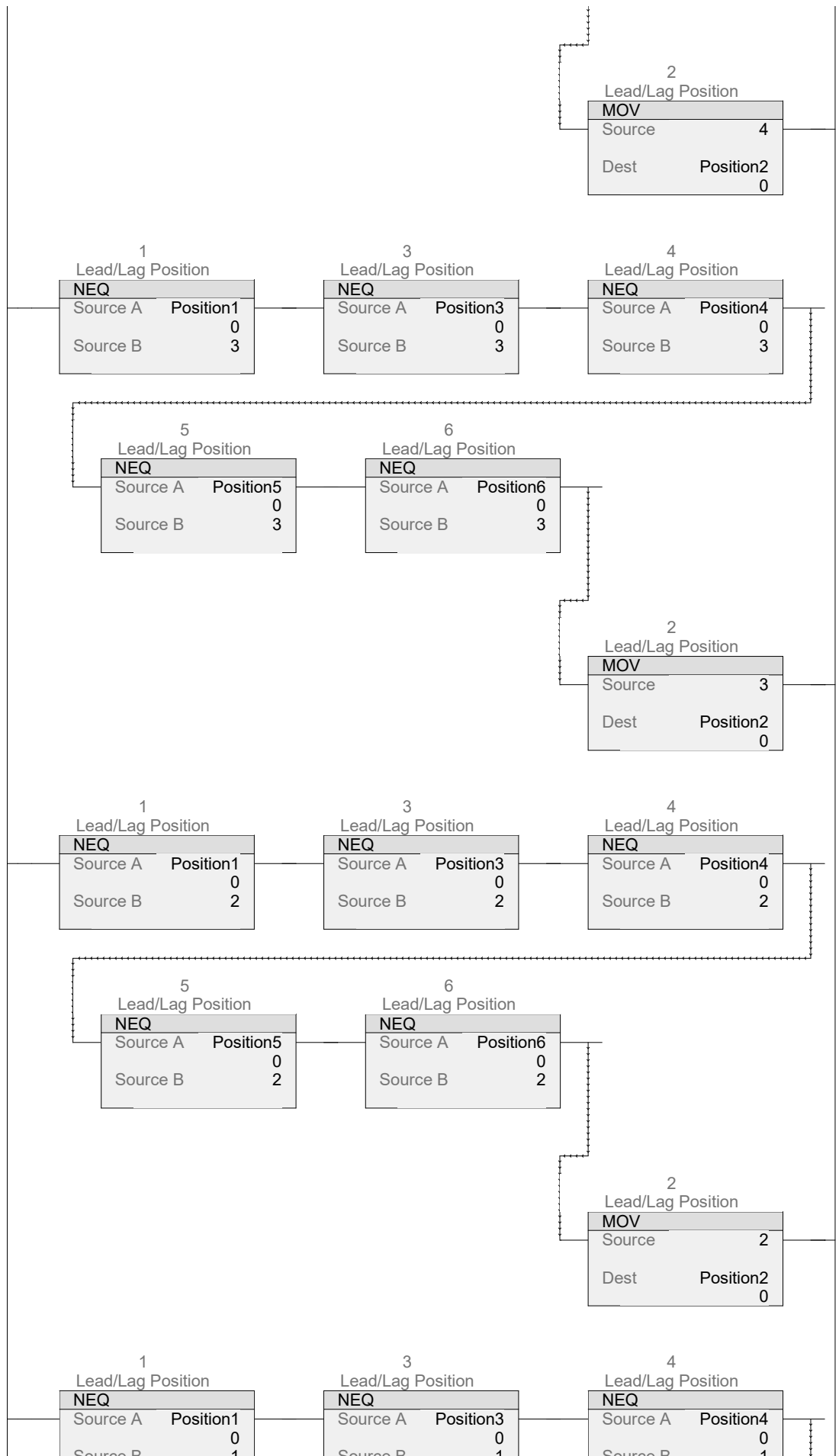
6
Lead/Lag Position

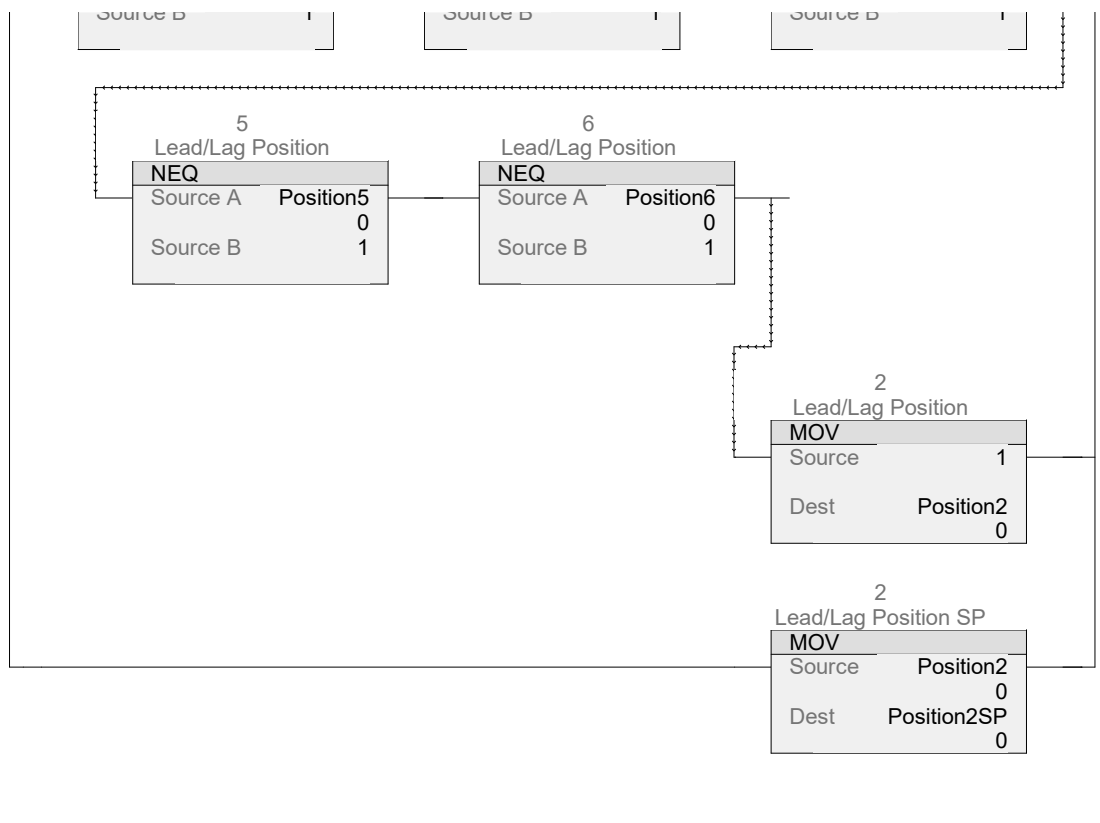
NEQ	
Source A	Position6
	0
Source B	0
	0



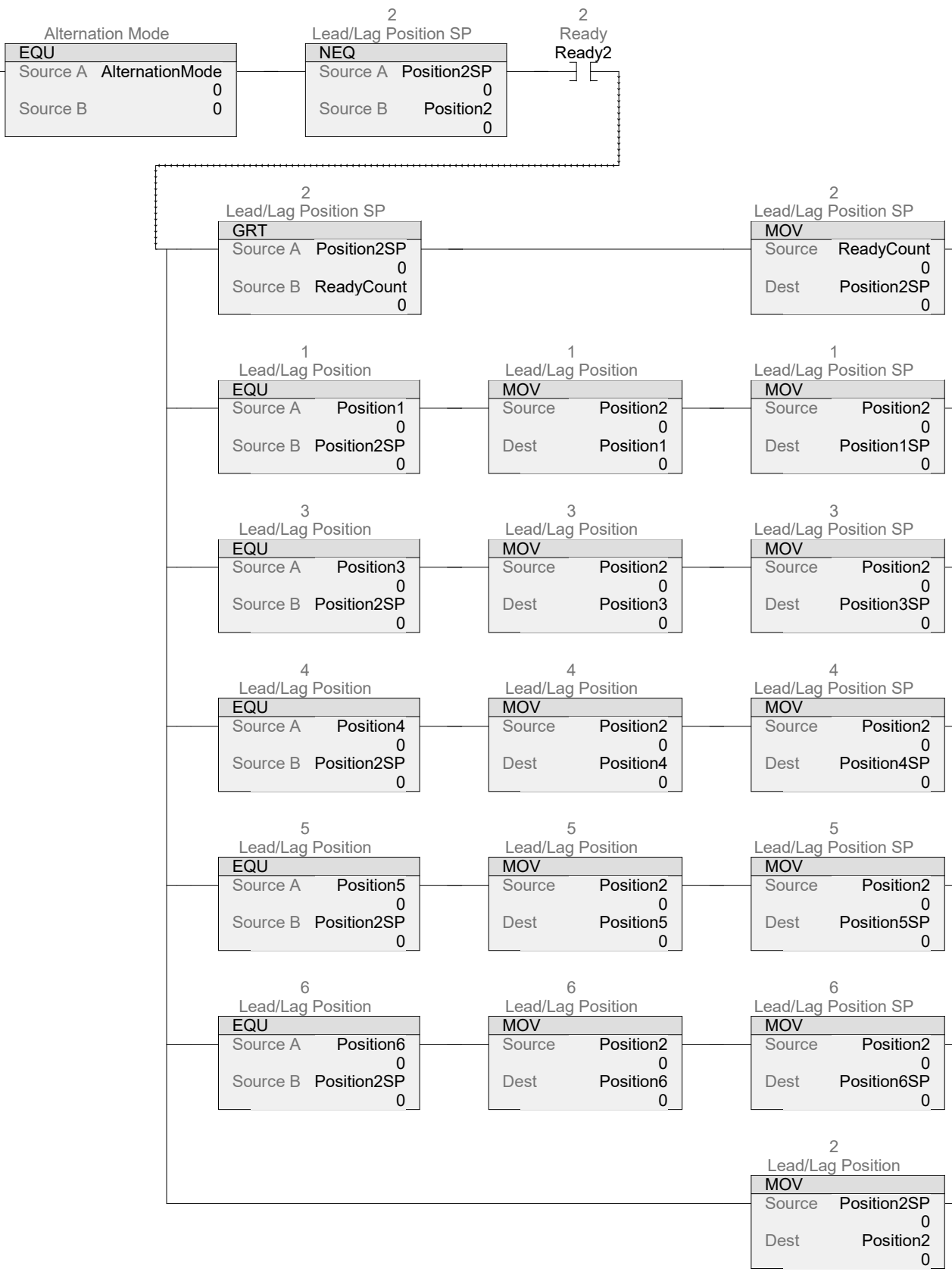
44



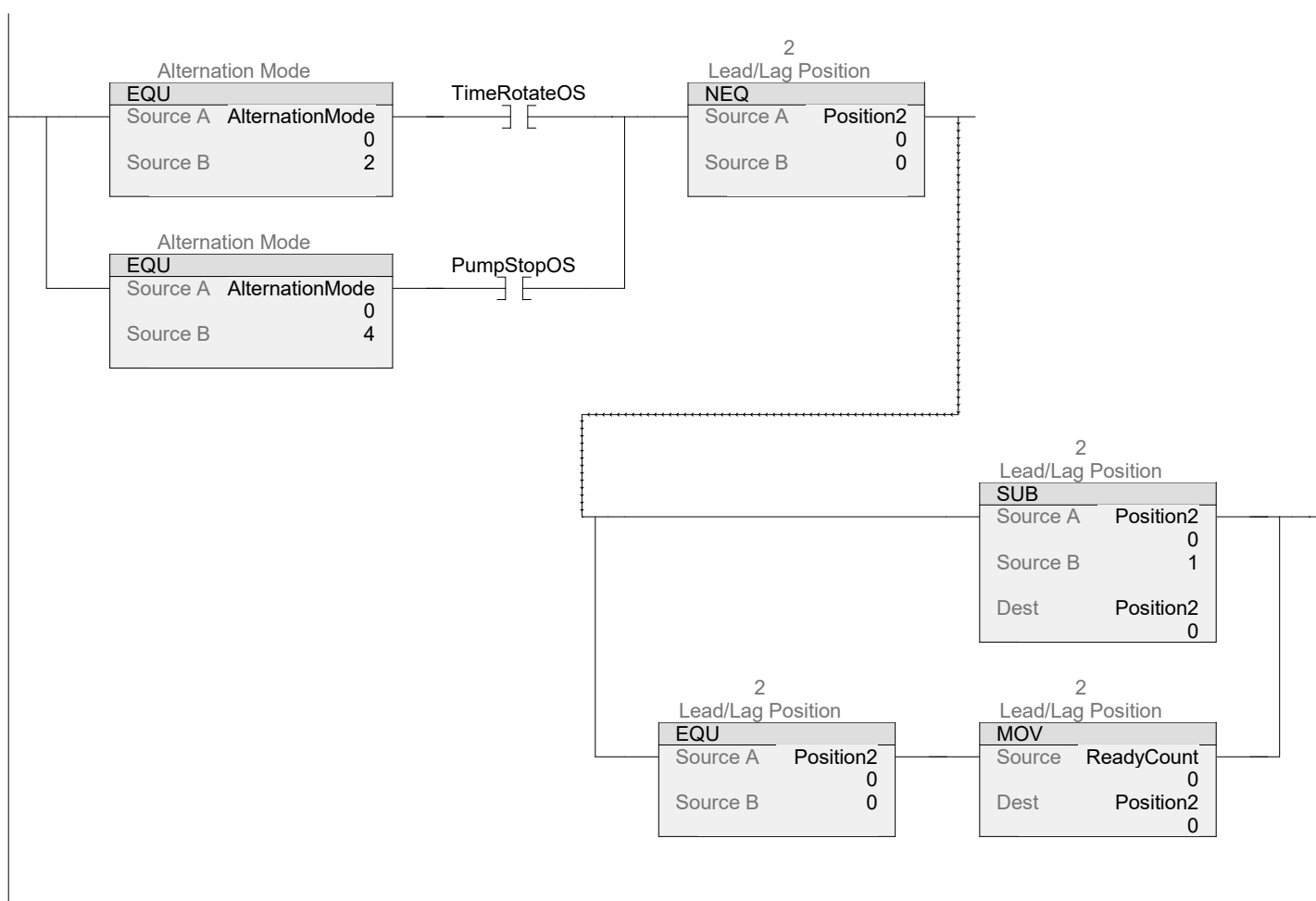




45



46



47

equipment 3 lead/lag logic

3
Ready
Ready3

3
Lead/Lag Position
NEQ
Source A Position3
0
Source B 0

NotReady3OS
[ONS]

1
Lead/Lag Position
GRT
Source A Position1
0
Source B Position3
0

1
Lead/Lag Position
NEQ
Source A Position1
0
Source B 0

2
Lead/Lag Position
GRT
Source A Position2
0
Source B Position3
0

2
Lead/Lag Position
NEQ
Source A Position2
0
Source B 0

4
Lead/Lag Position
GRT
Source A Position4
0
Source B Position3
0

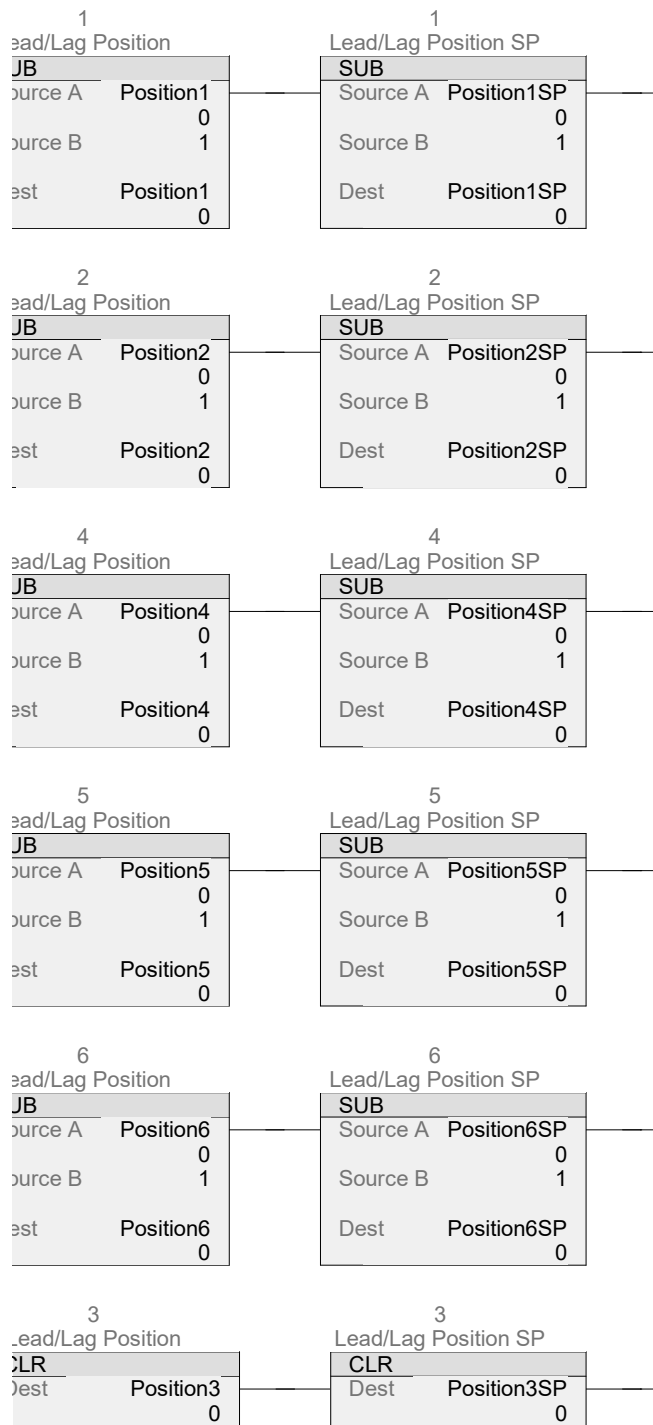
4
Lead/Lag Position
NEQ
Source A Position4
0
Source B 0

5
Lead/Lag Position
GRT
Source A Position5
0
Source B Position3
0

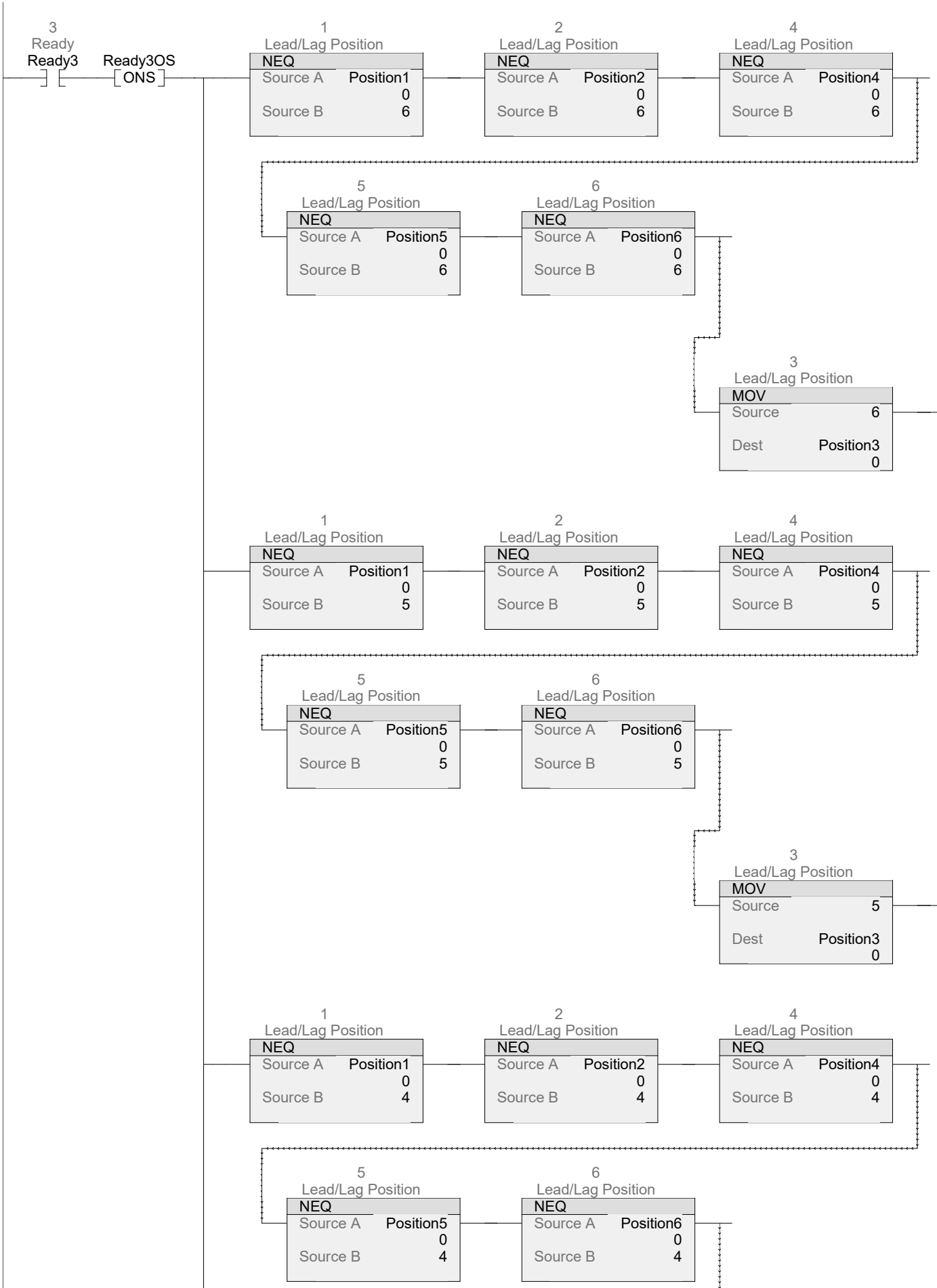
5
Lead/Lag Position
NEQ
Source A Position5
0
Source B 0

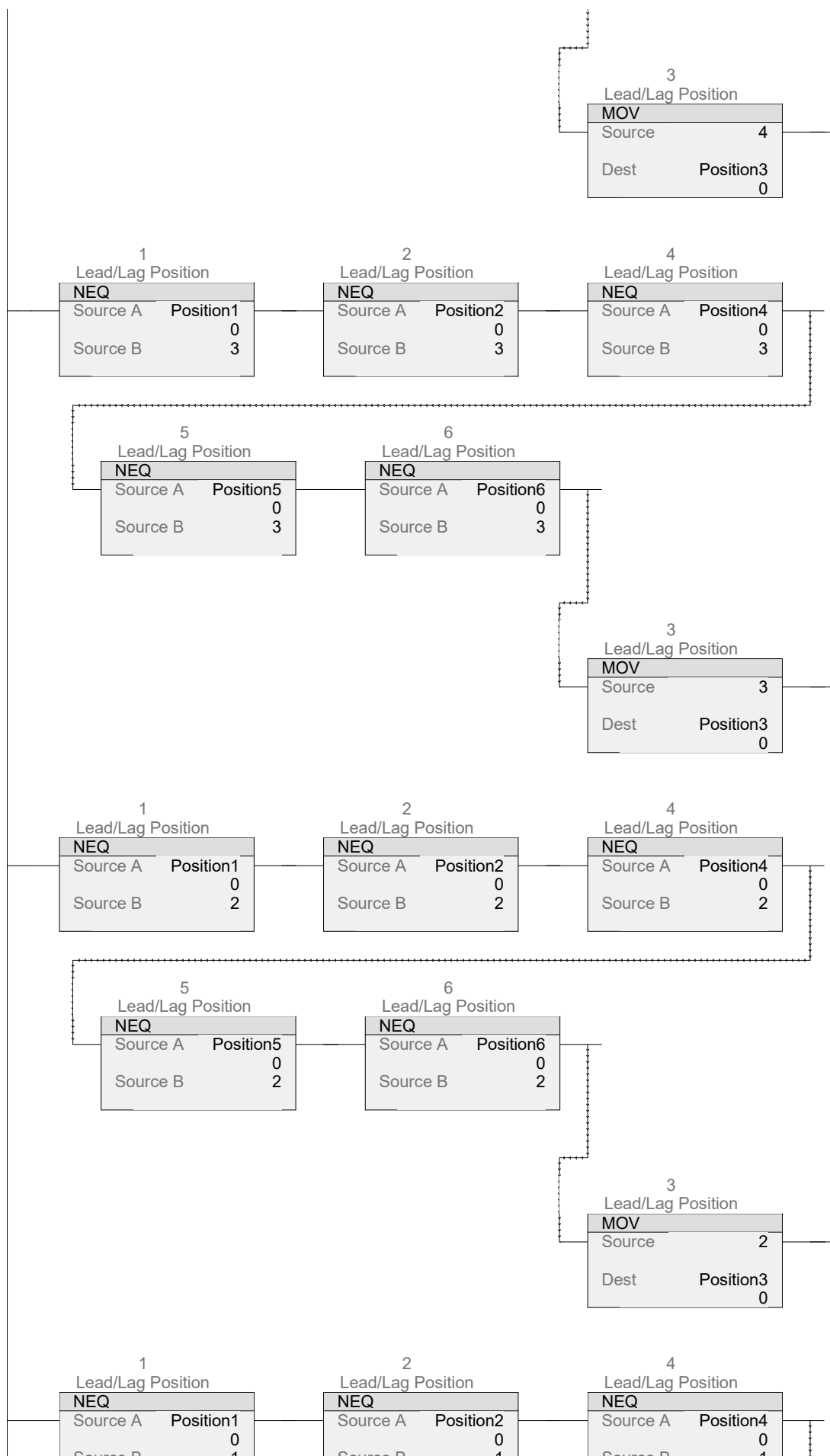
6
Lead/Lag Position
GRT
Source A Position6
0
Source B Position3
0

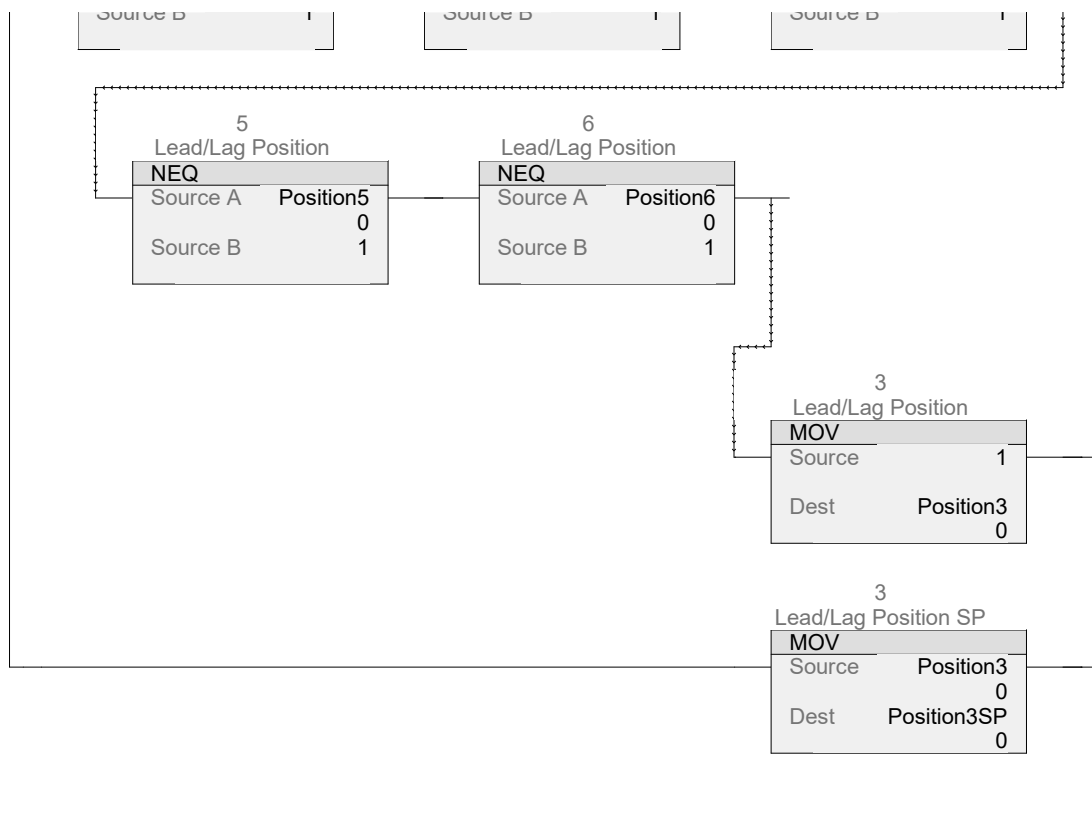
6
Lead/Lag Position
NEQ
Source A Position6
0
Source B 0



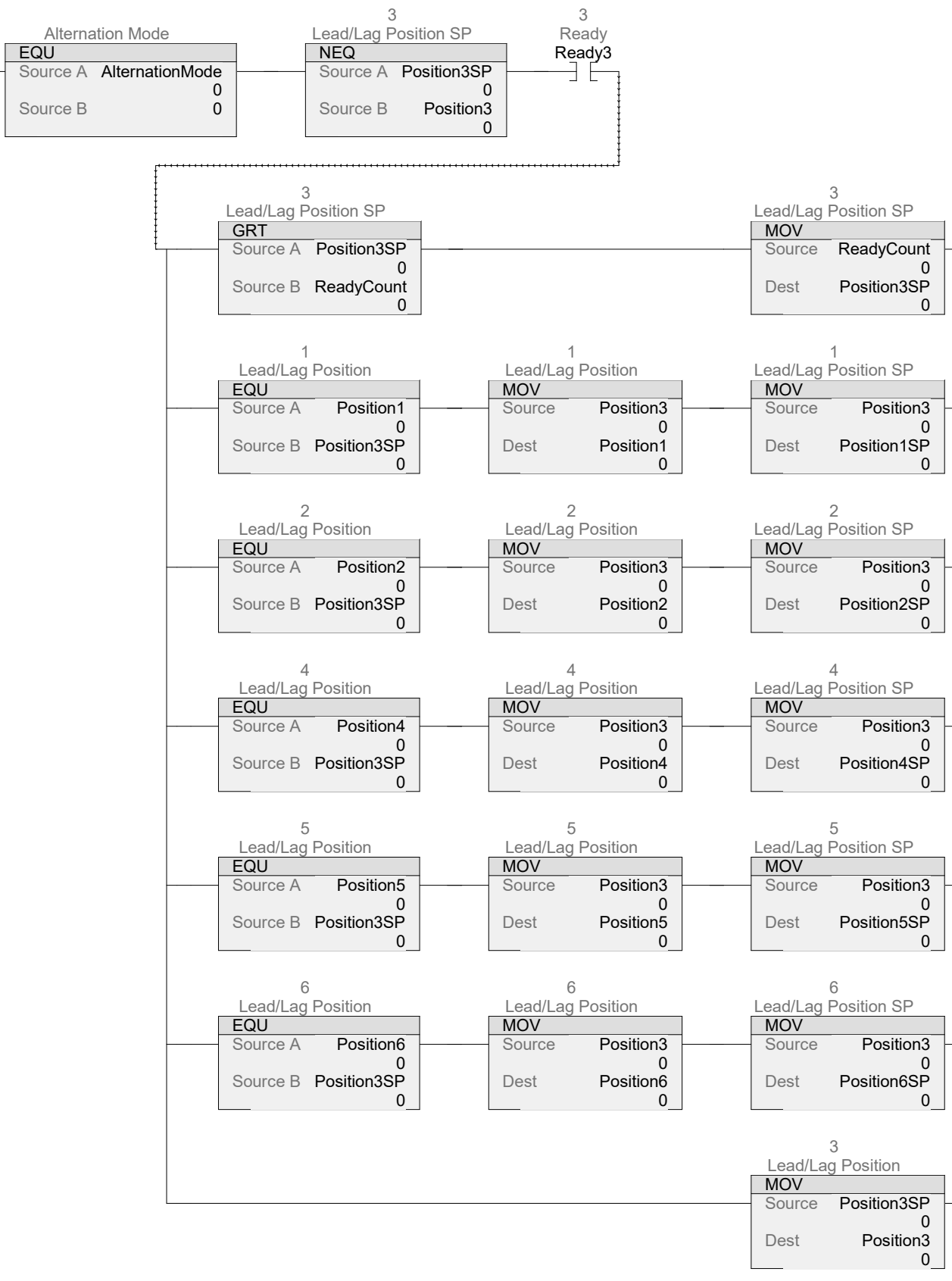
48



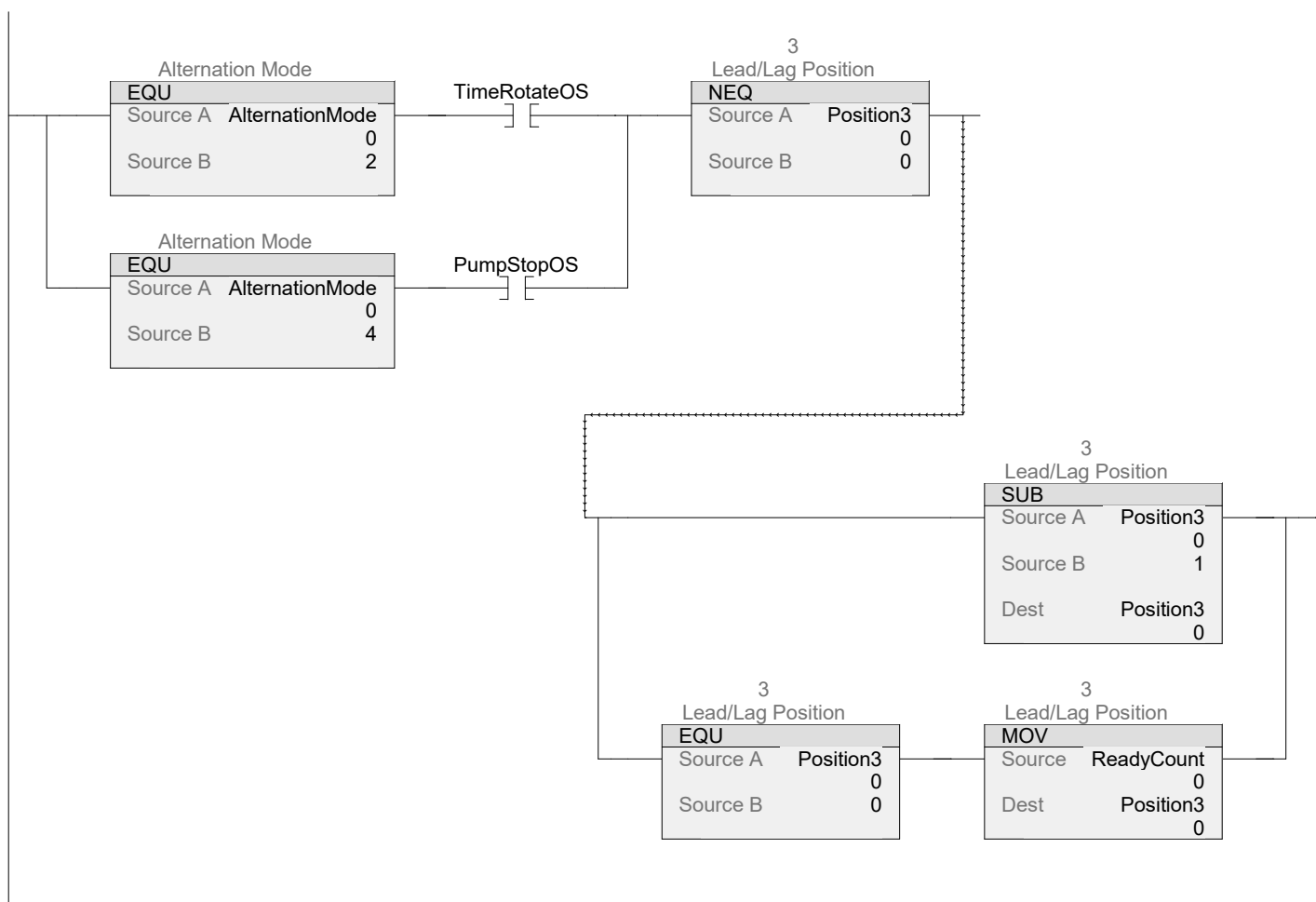




49

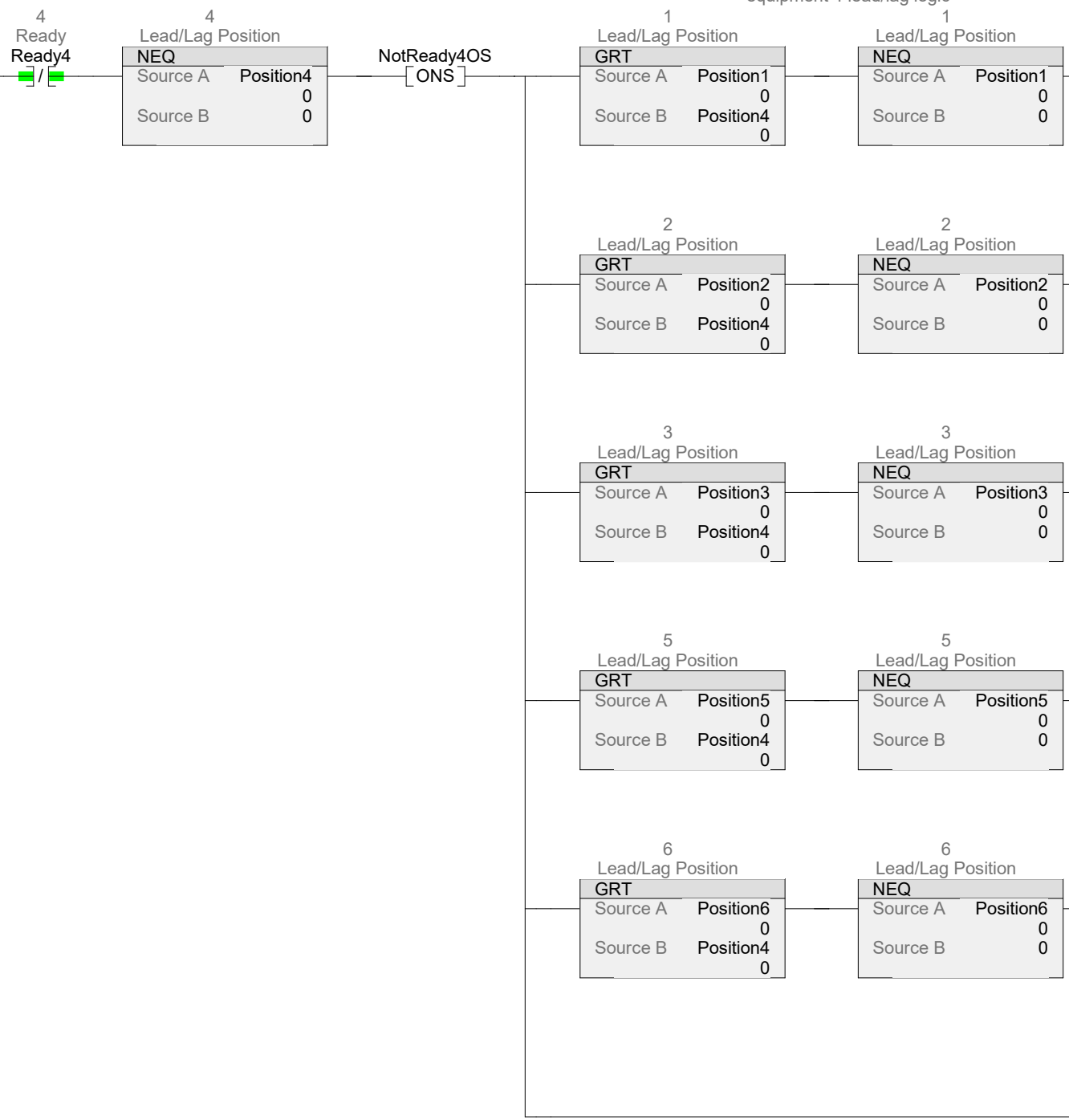


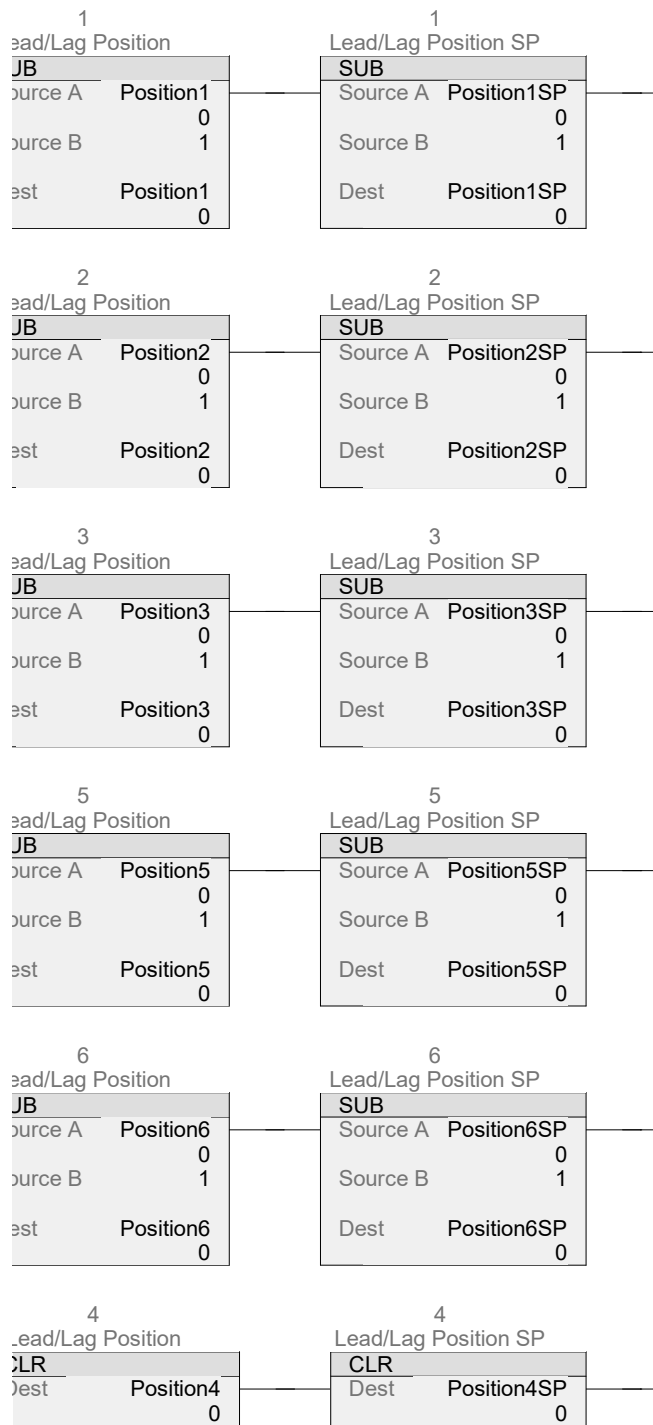
50



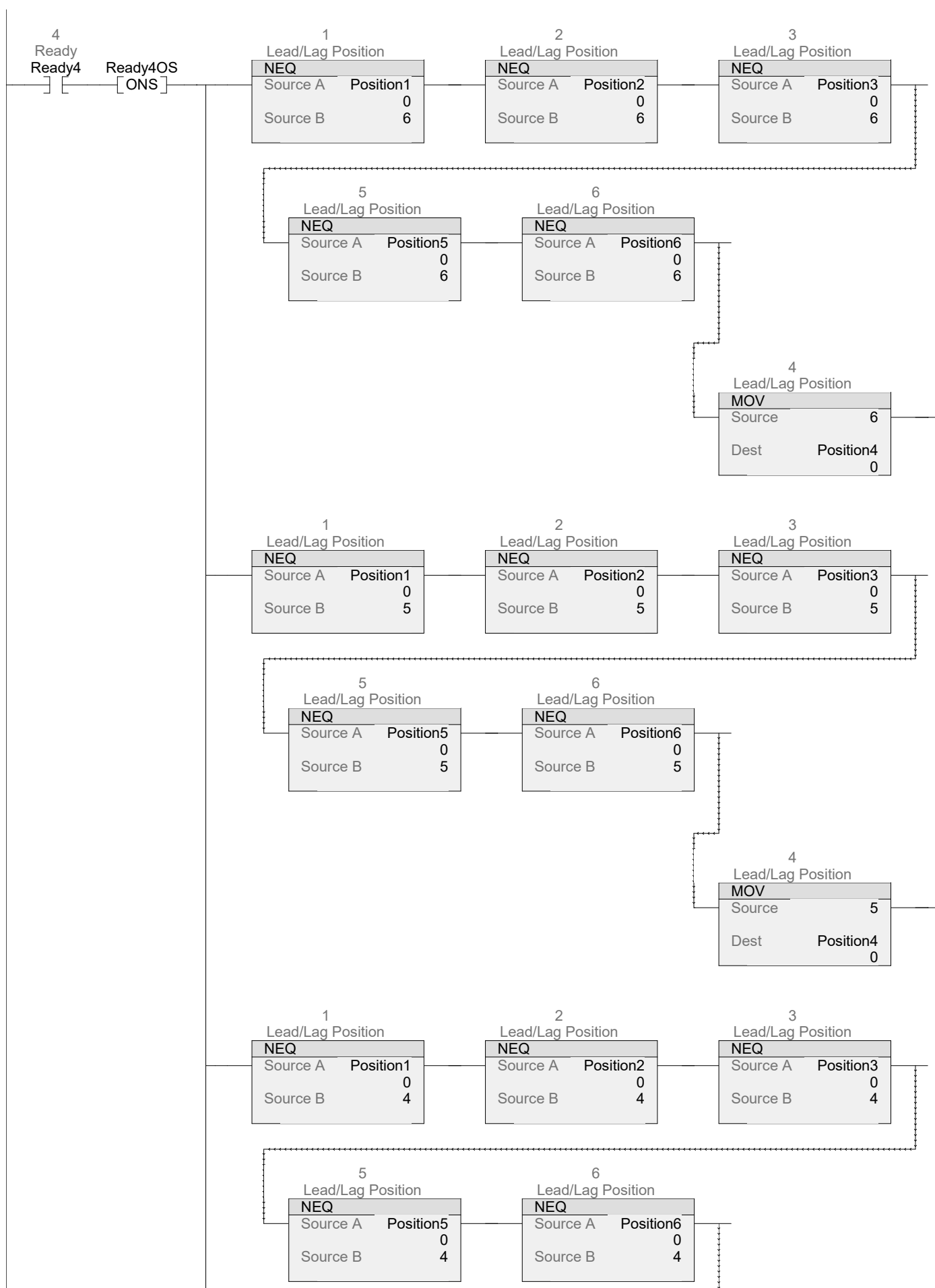
51

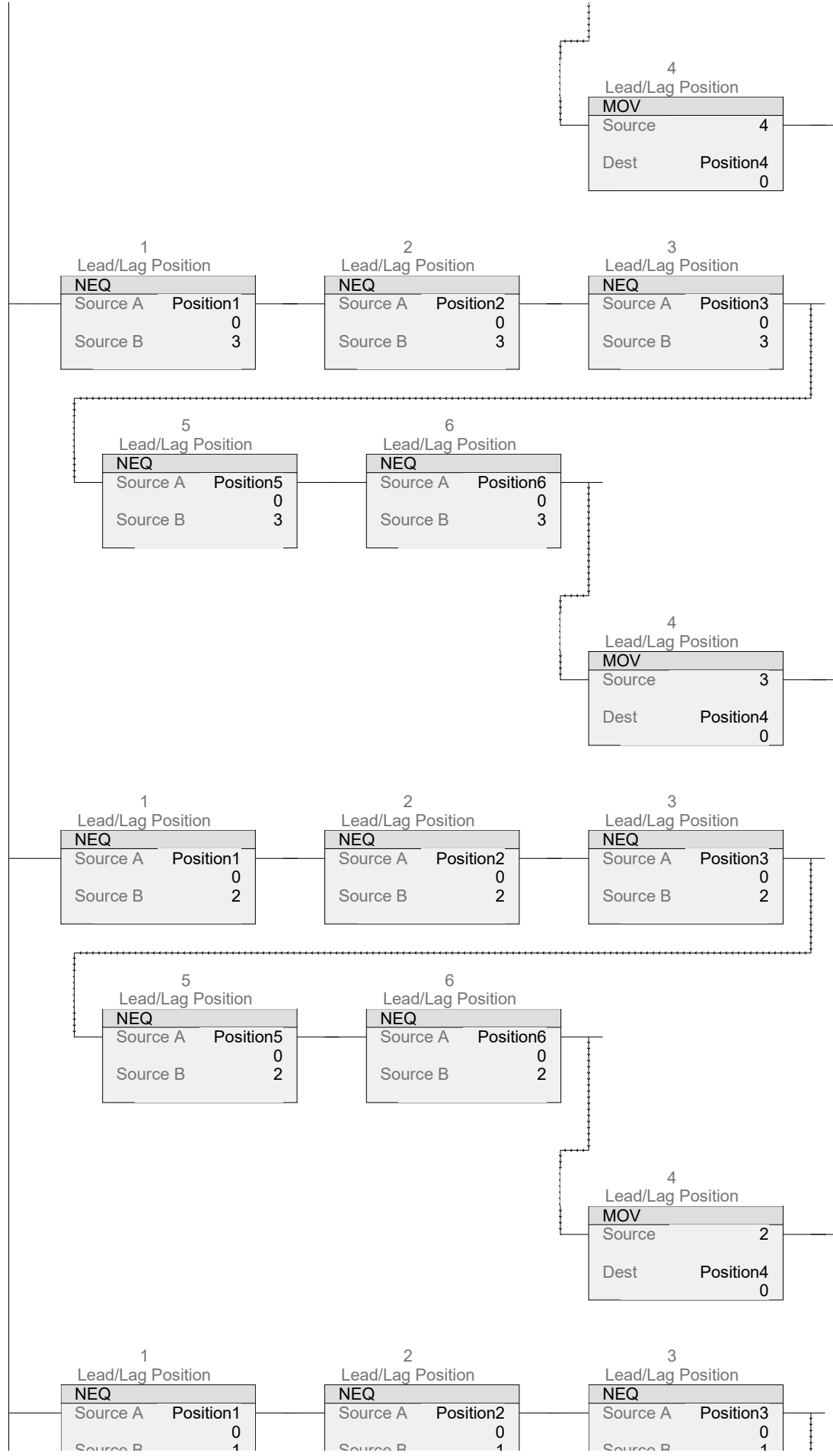
equipment 4 lead/lag logic

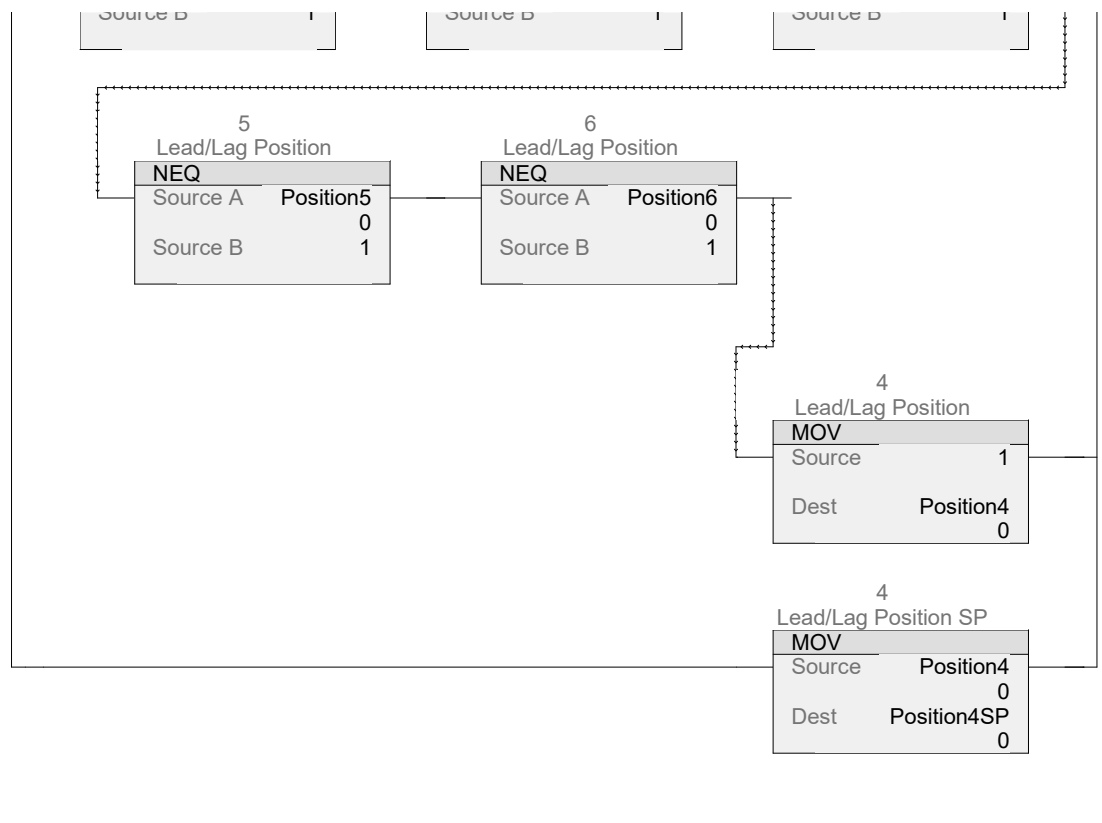




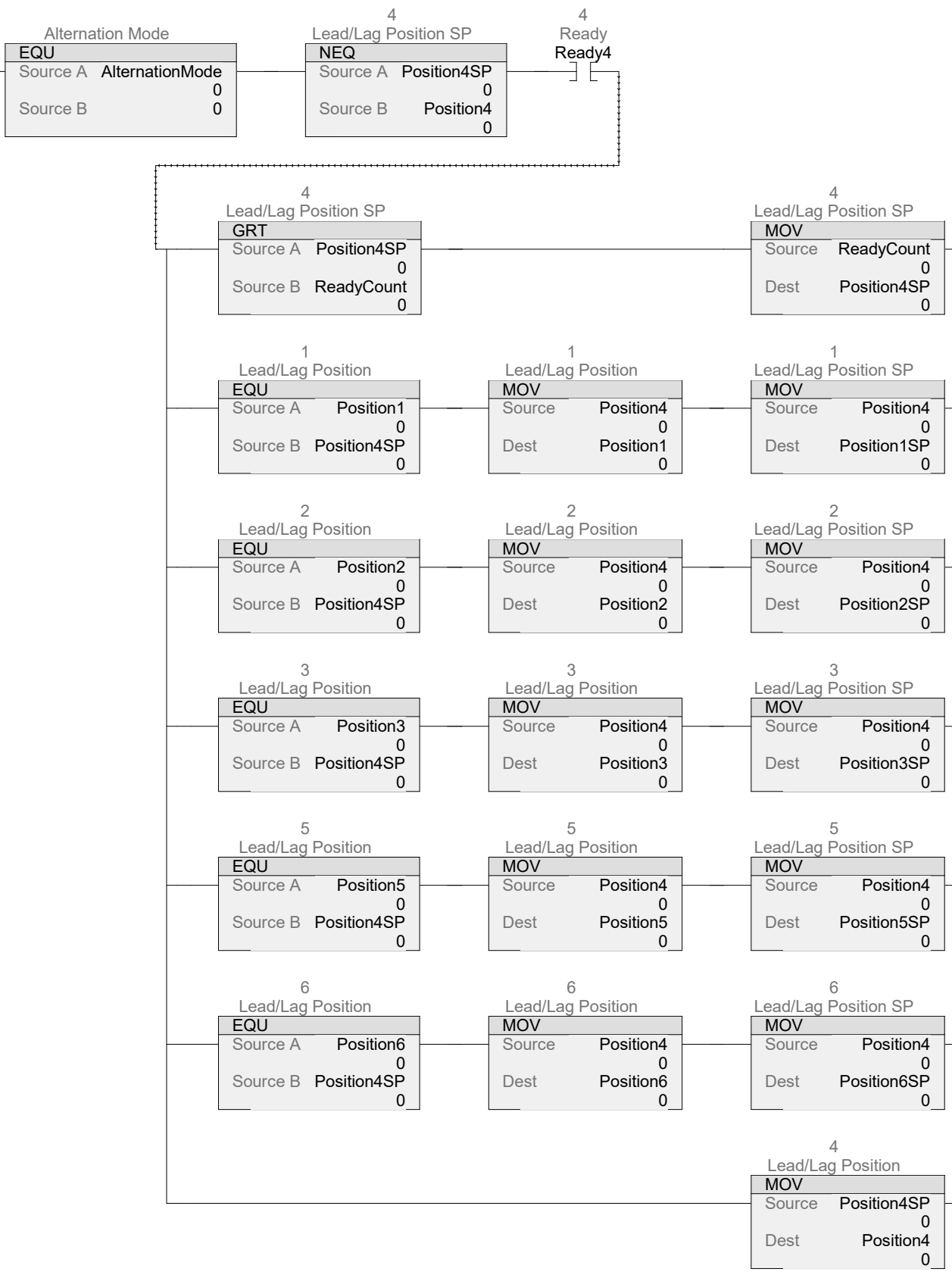
52



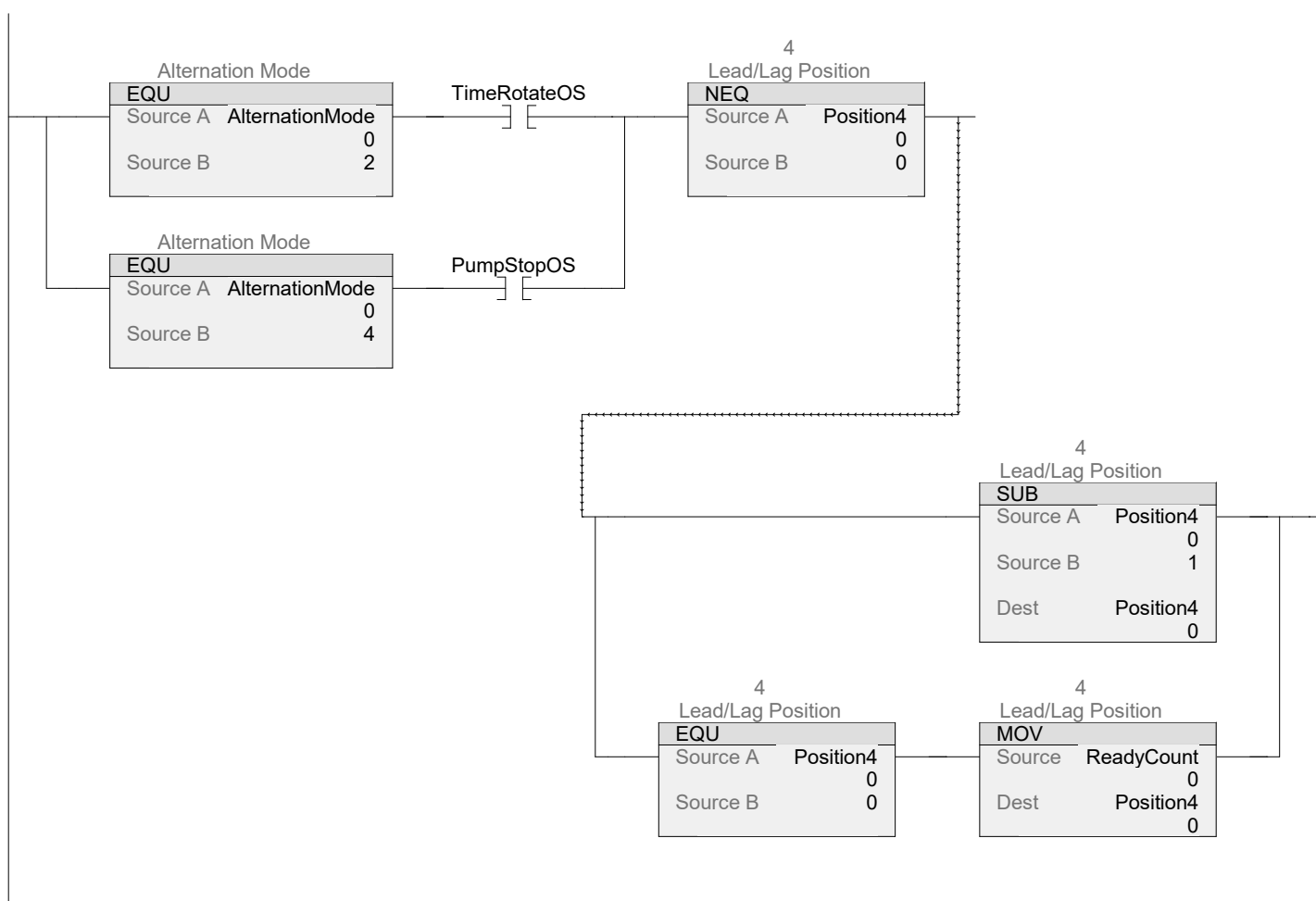




53

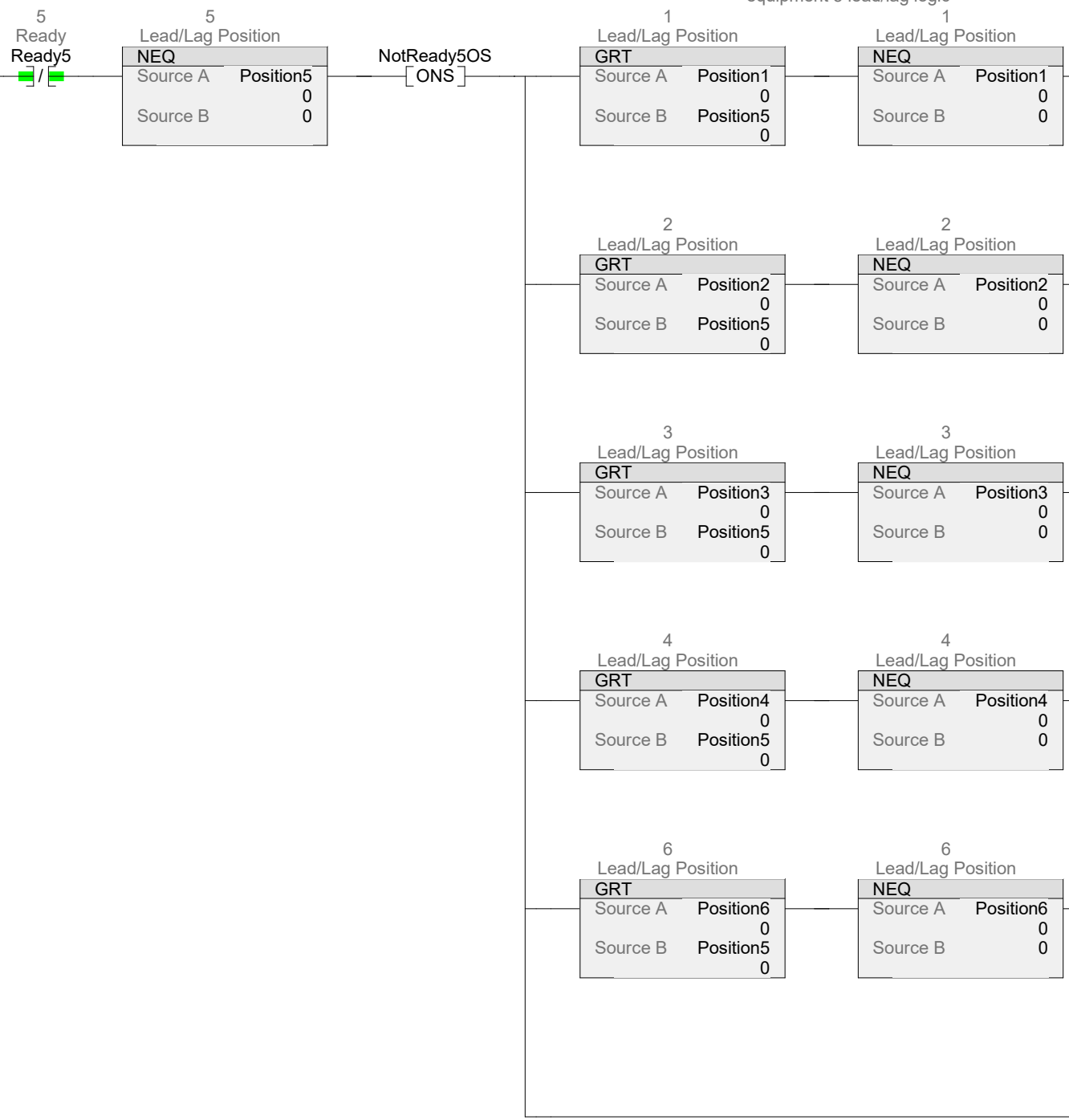


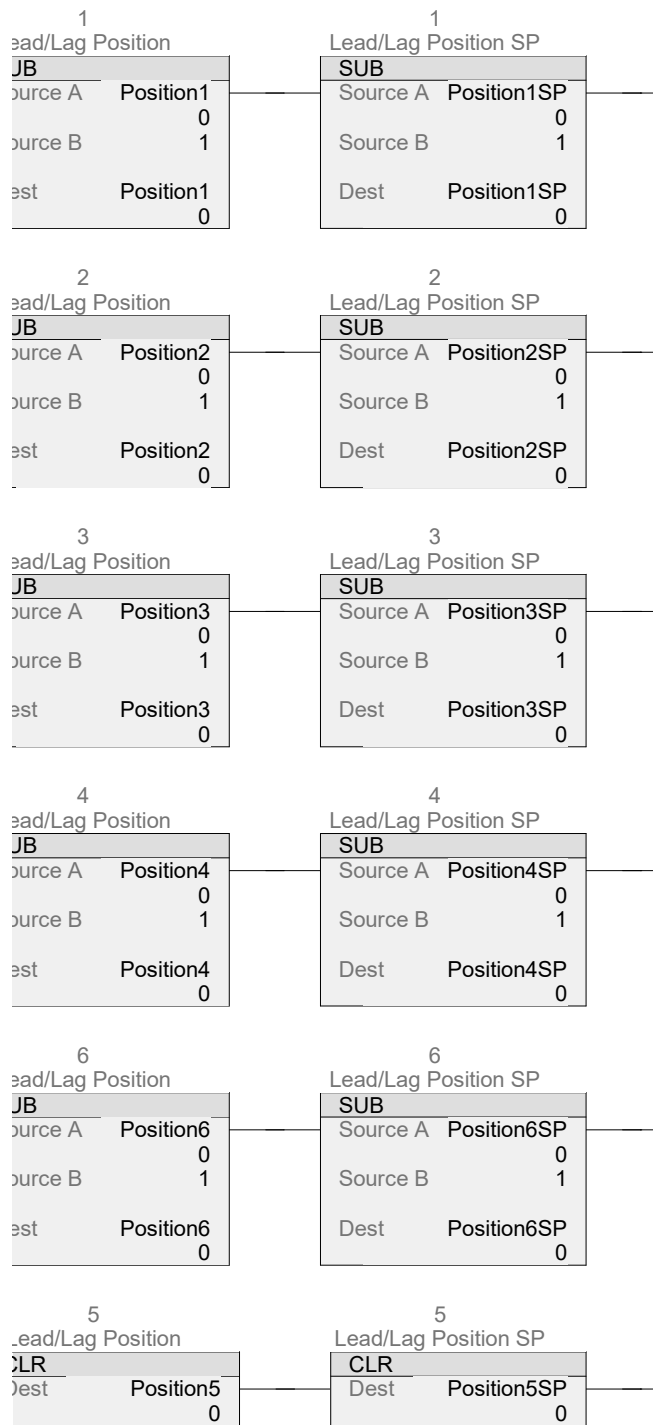
54



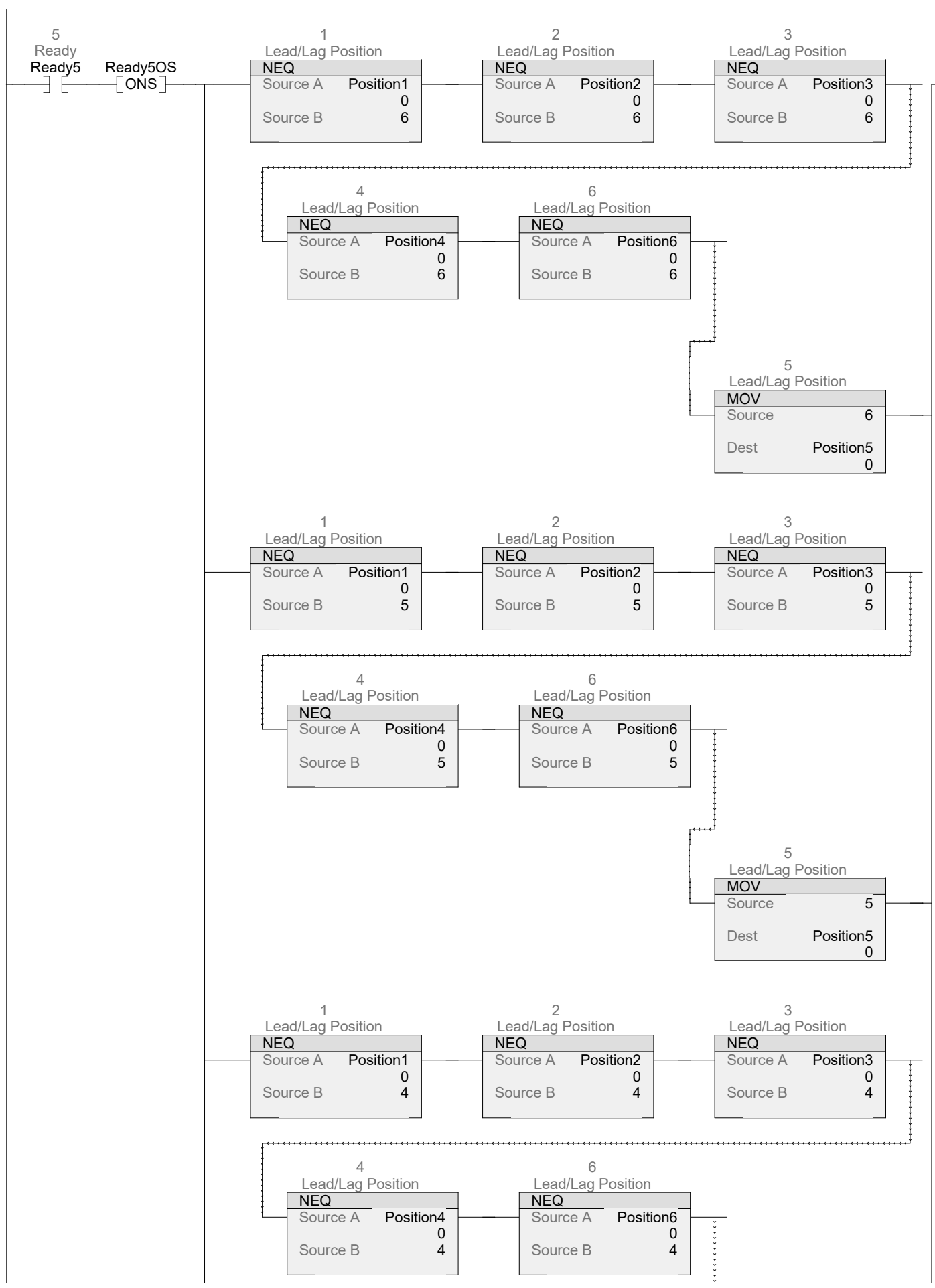
55

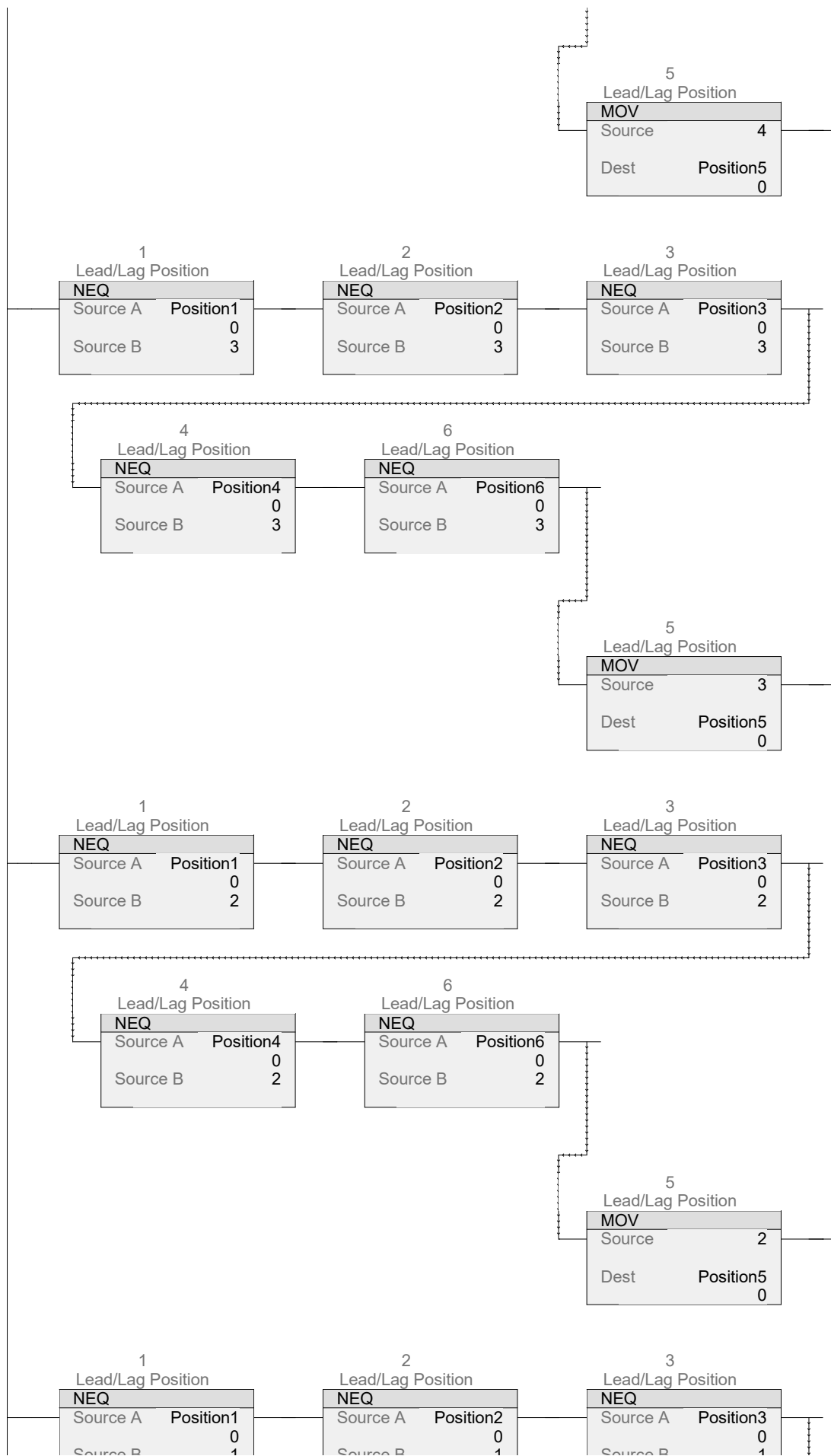
equipment 5 lead/lag logic

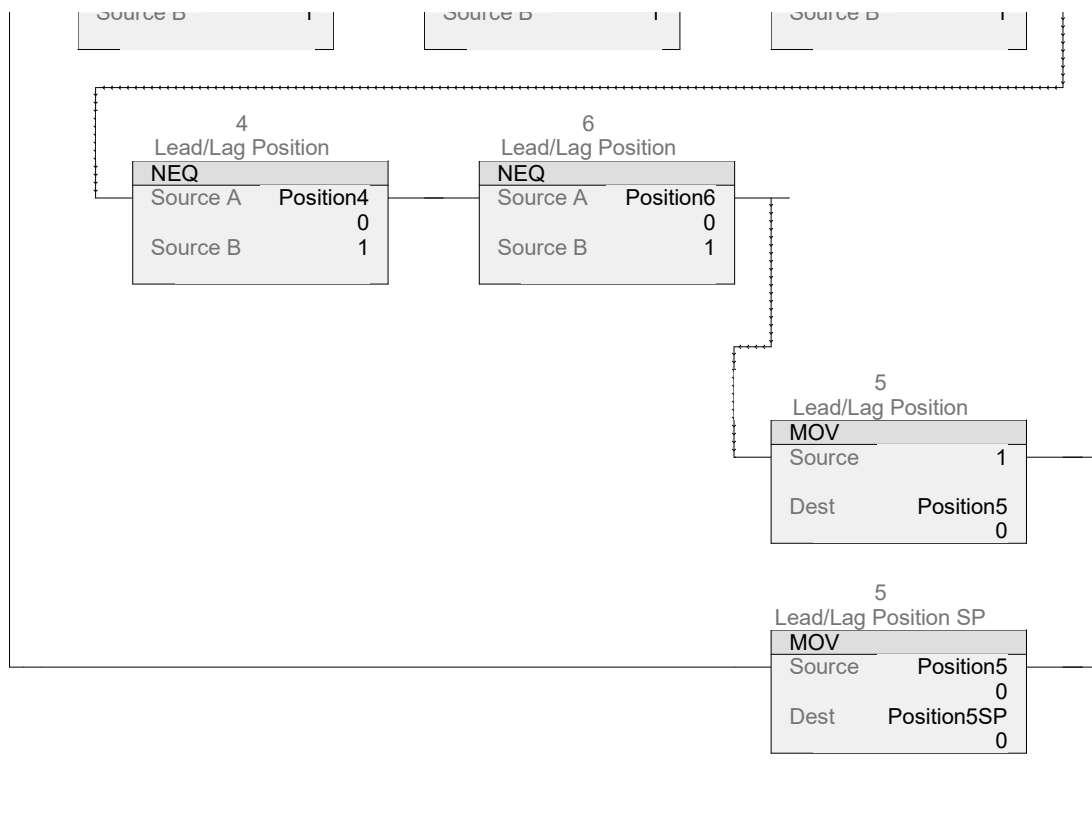




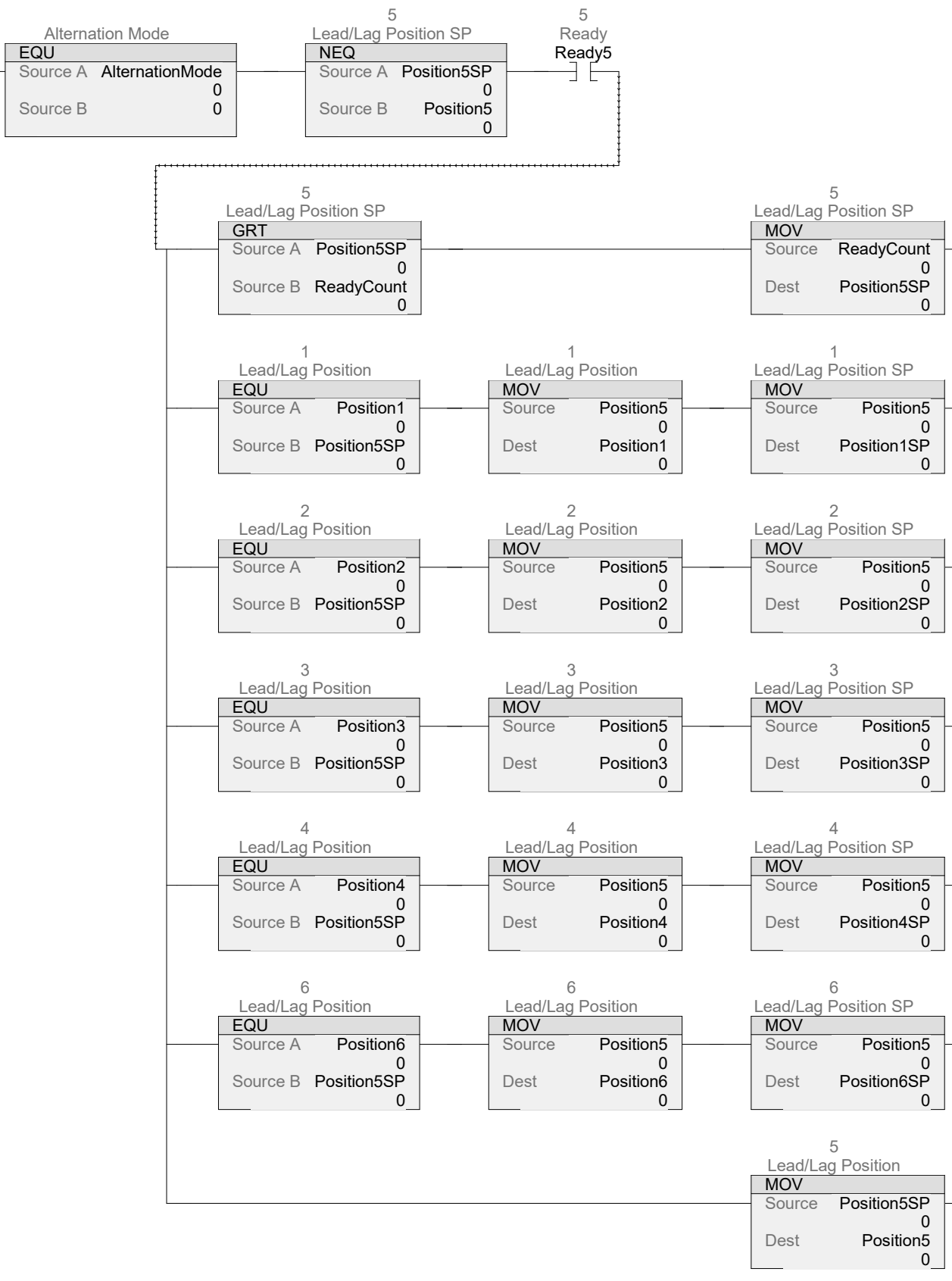
56



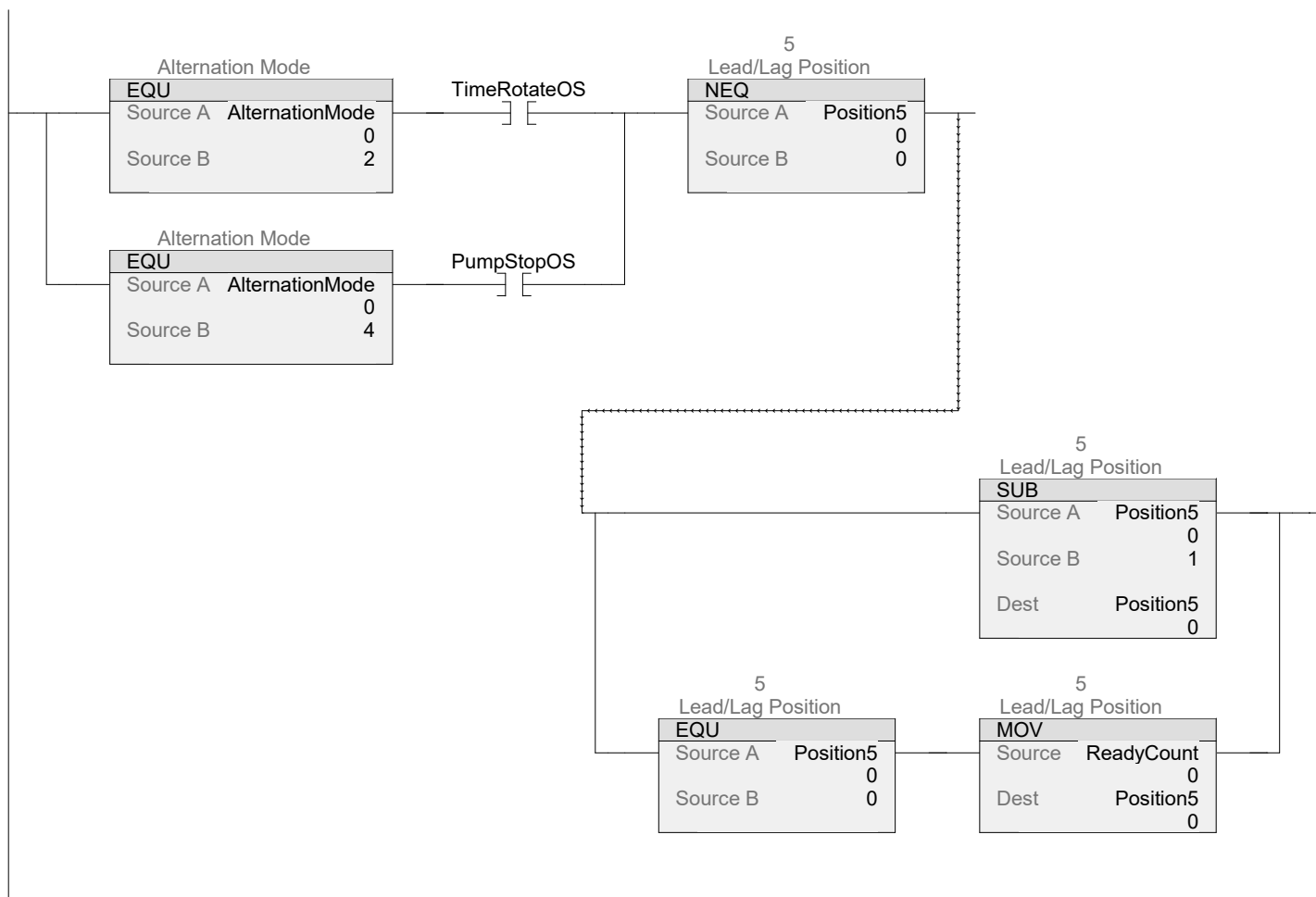




57



58



59

equipment 6 lead/lag logic

6
Ready
Ready6



6
Lead/Lag Position
NEQ
Source A Position6
0
Source B 0

NotReady6OS
[ONS]

1
Lead/Lag Position
GRT
Source A Position1
0
Source B Position6
0

1
Lead/Lag Position
NEQ
Source A Position1
0
Source B 0

2
Lead/Lag Position
GRT
Source A Position2
0
Source B Position6
0

2
Lead/Lag Position
NEQ
Source A Position2
0
Source B 0

3
Lead/Lag Position
GRT
Source A Position3
0
Source B Position6
0

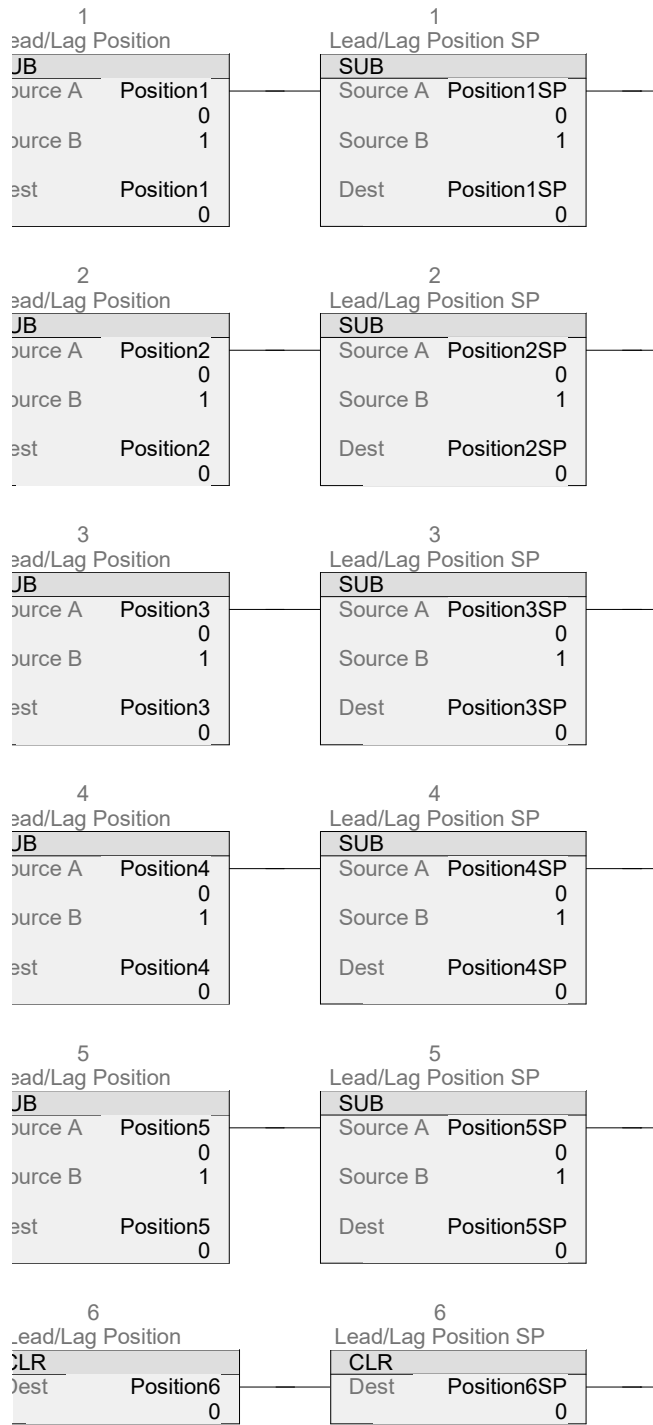
3
Lead/Lag Position
NEQ
Source A Position3
0
Source B 0

4
Lead/Lag Position
GRT
Source A Position4
0
Source B Position6
0

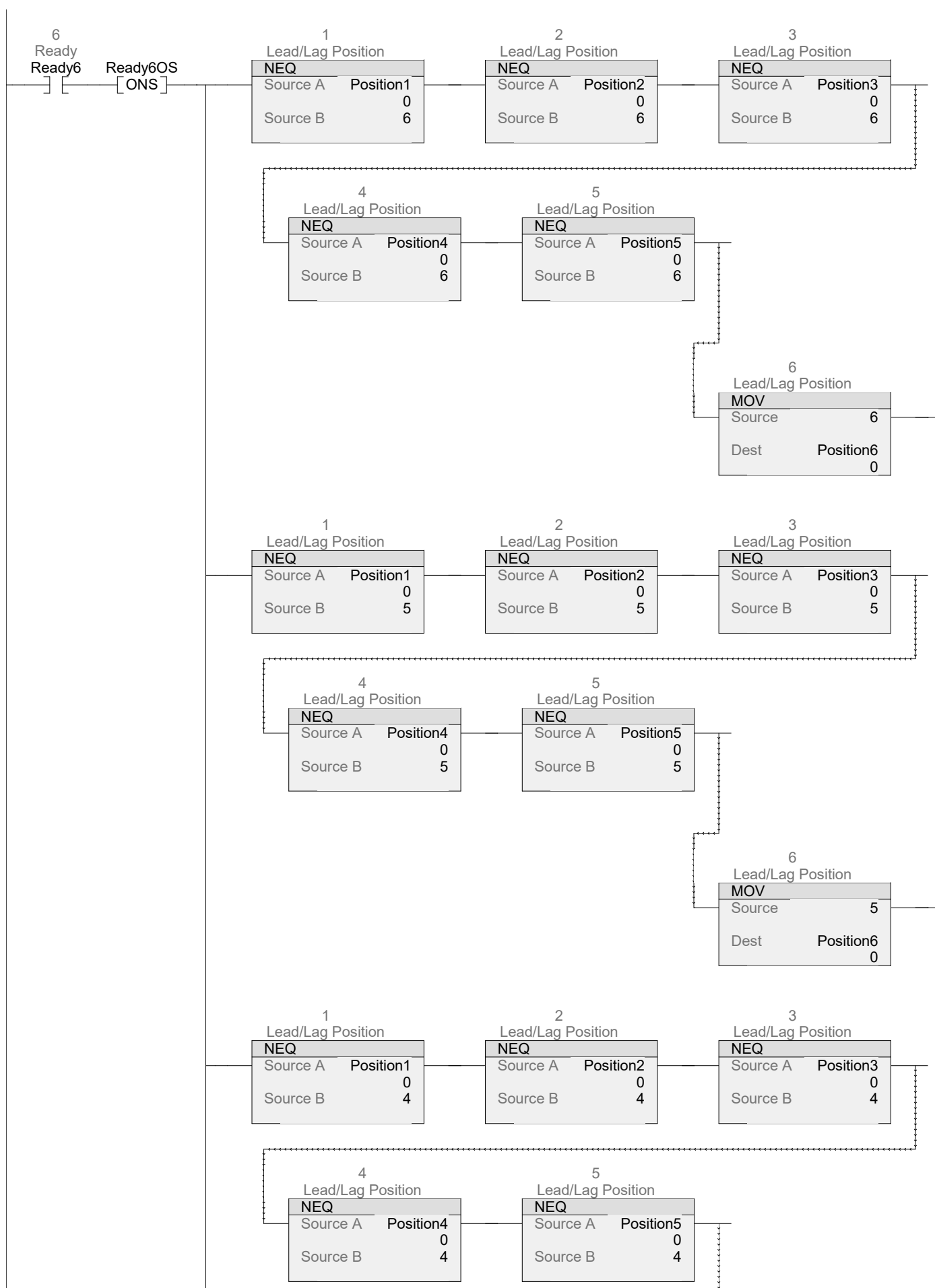
4
Lead/Lag Position
NEQ
Source A Position4
0
Source B 0

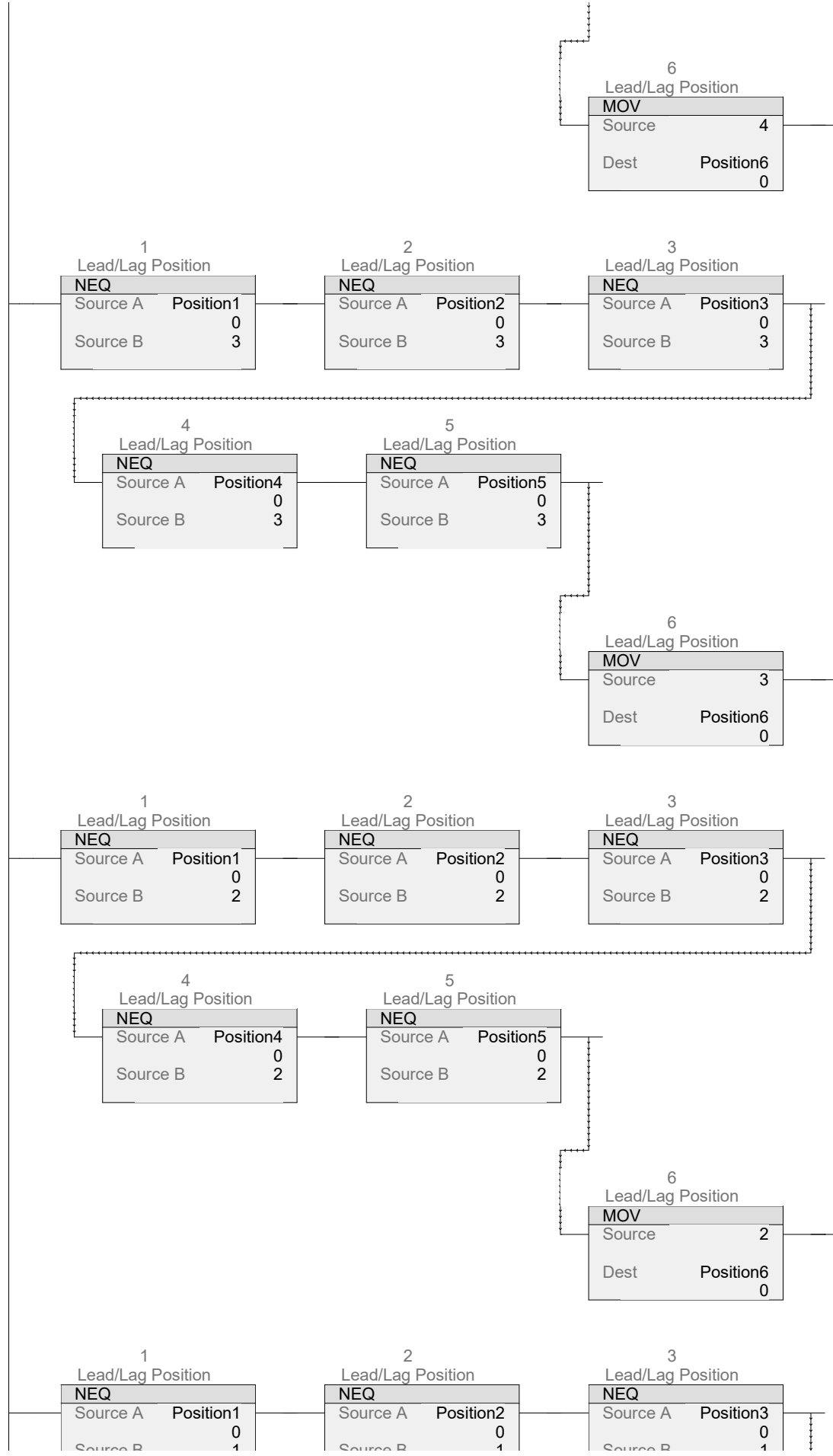
5
Lead/Lag Position
GRT
Source A Position5
0
Source B Position6
0

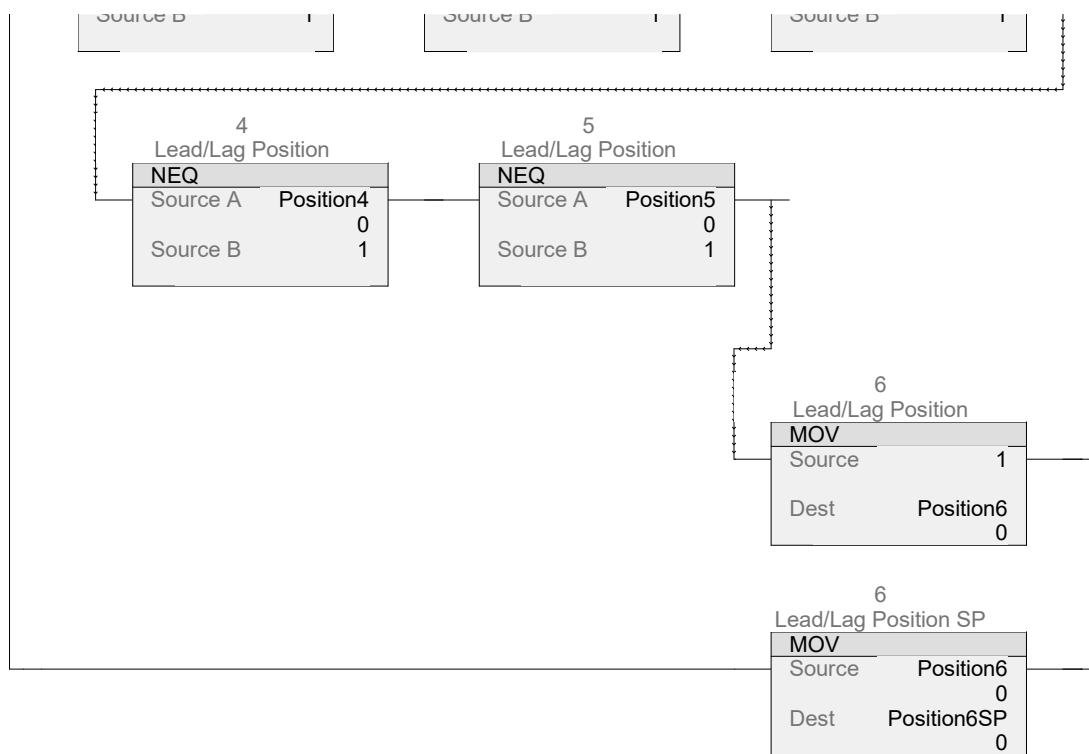
5
Lead/Lag Position
NEQ
Source A Position5
0
Source B 0



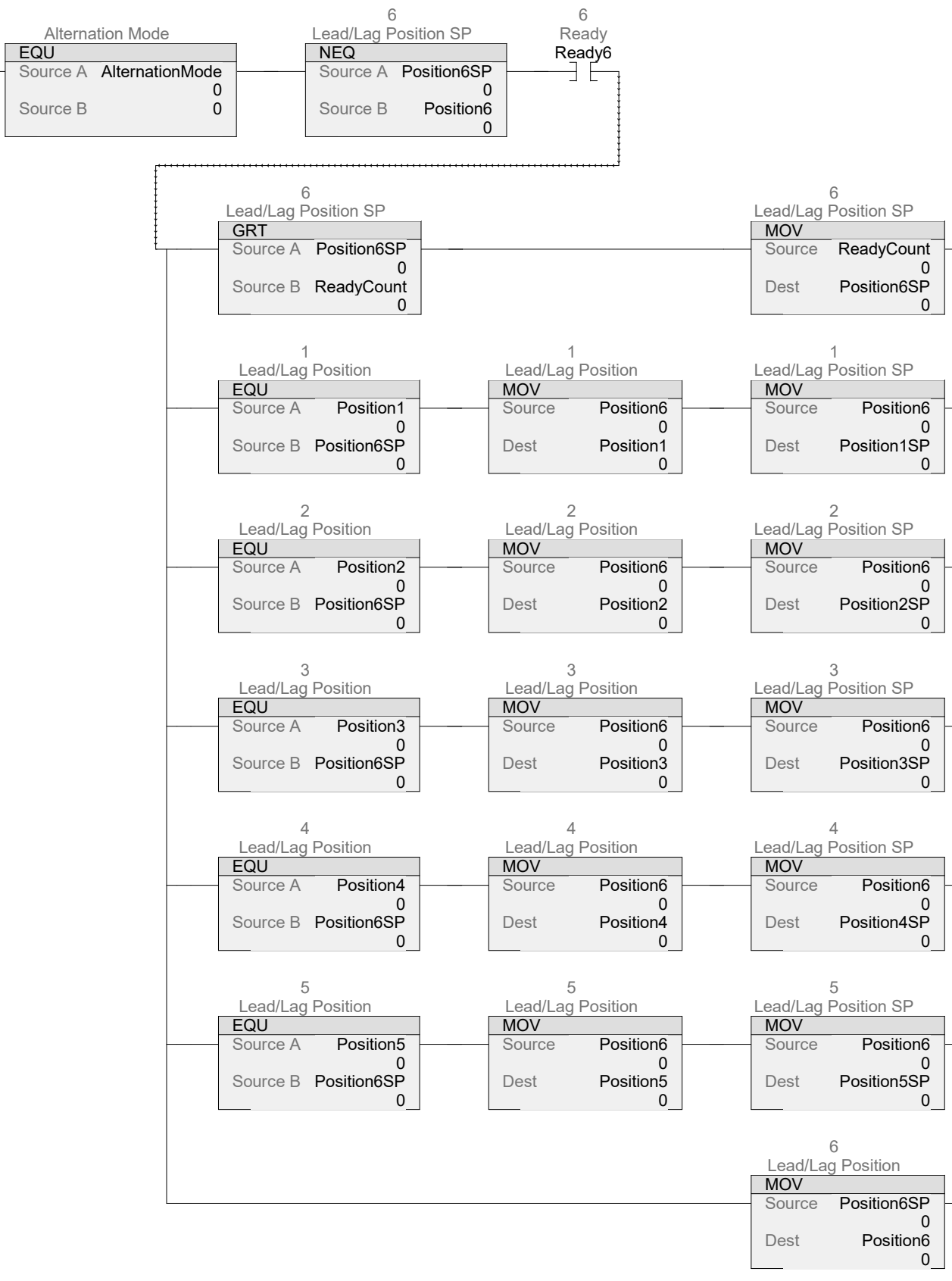
60

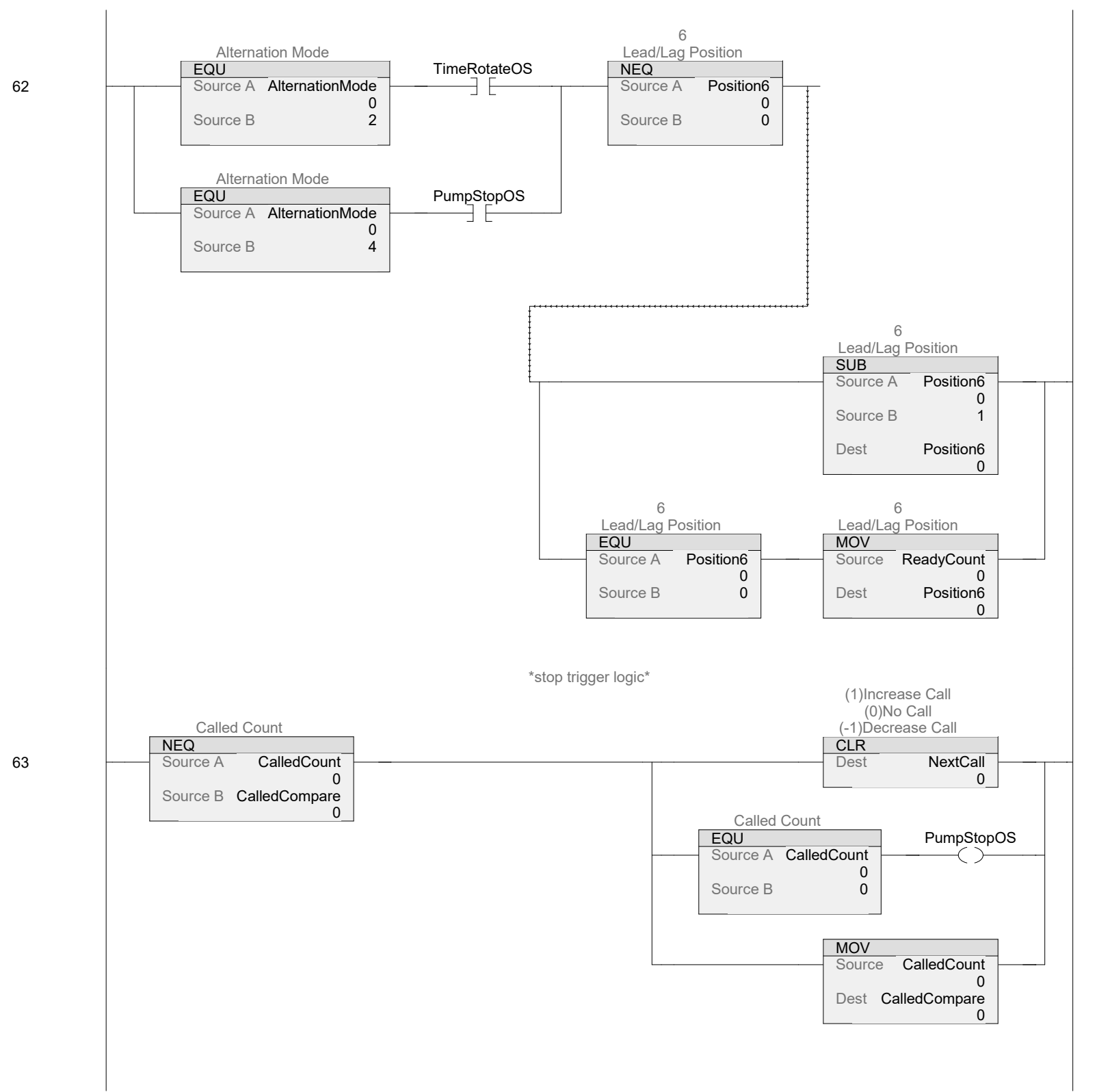




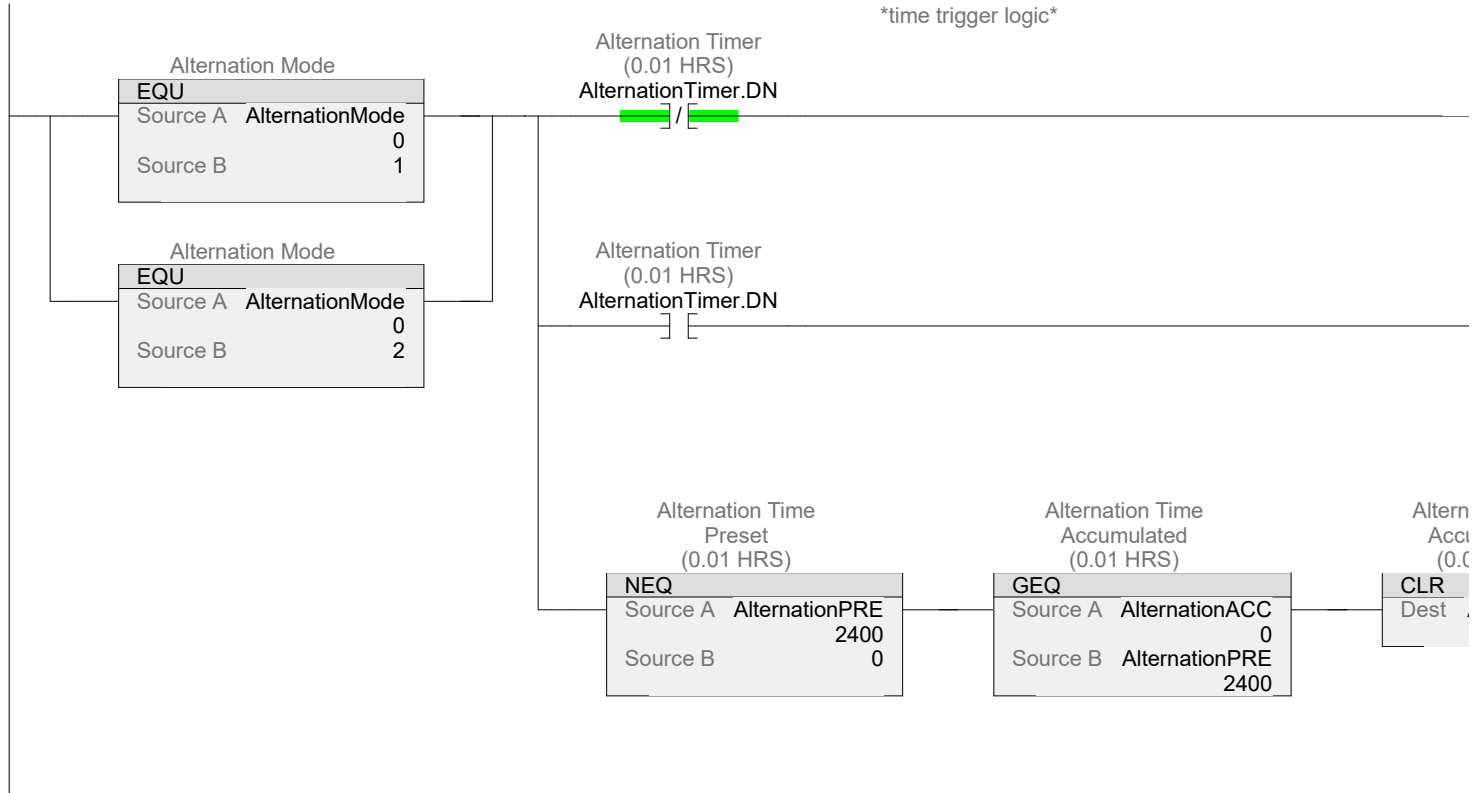


61

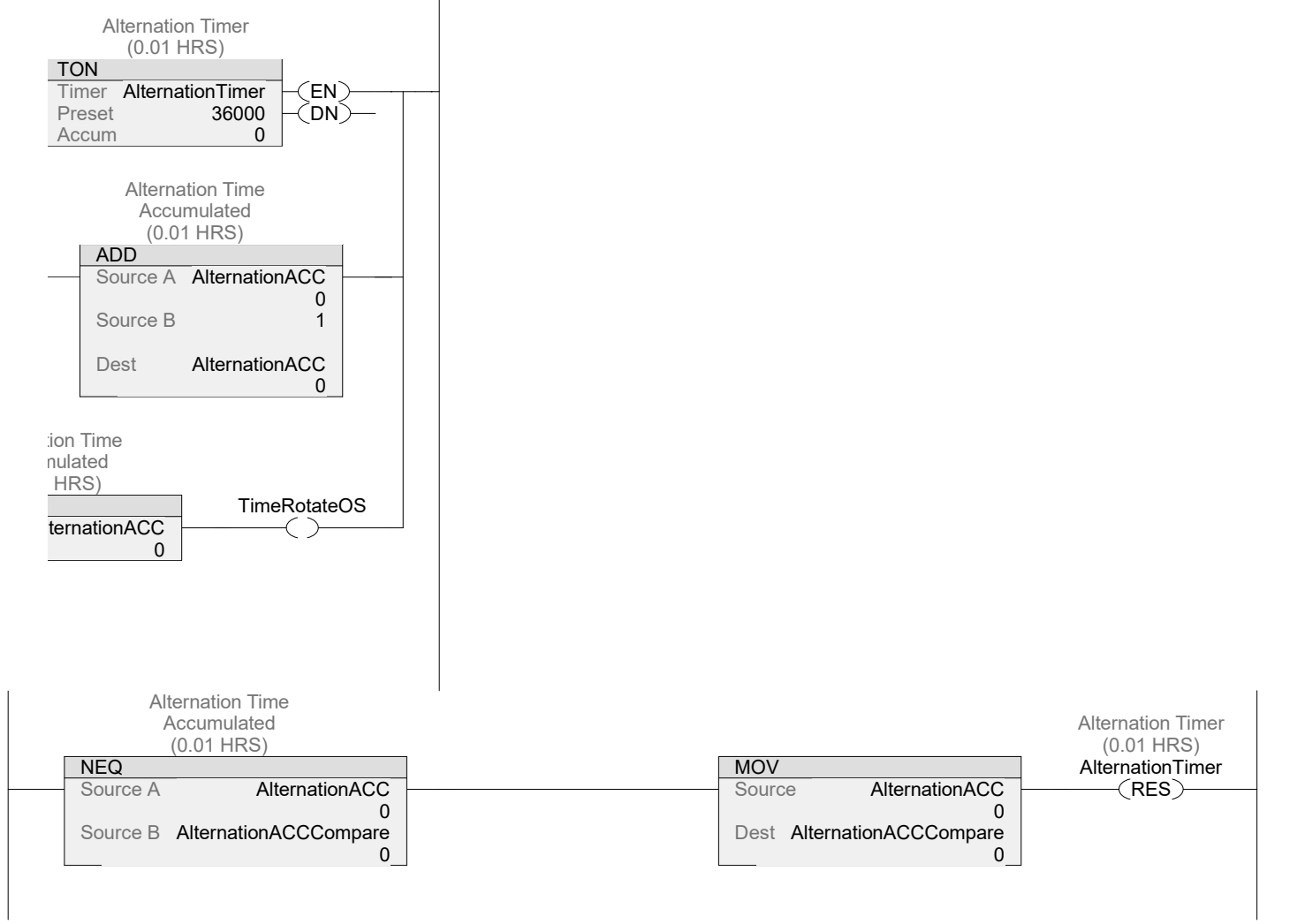


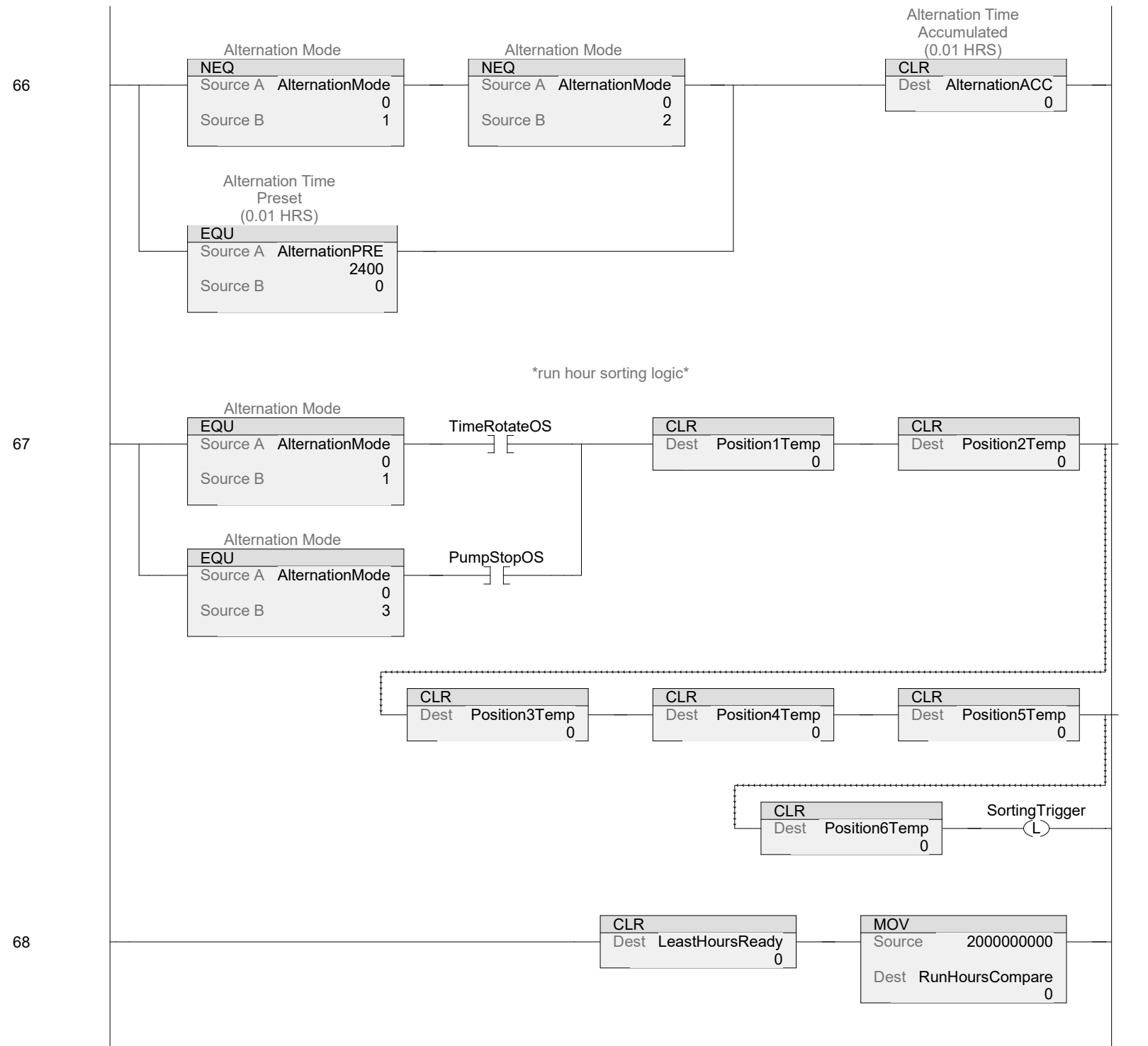


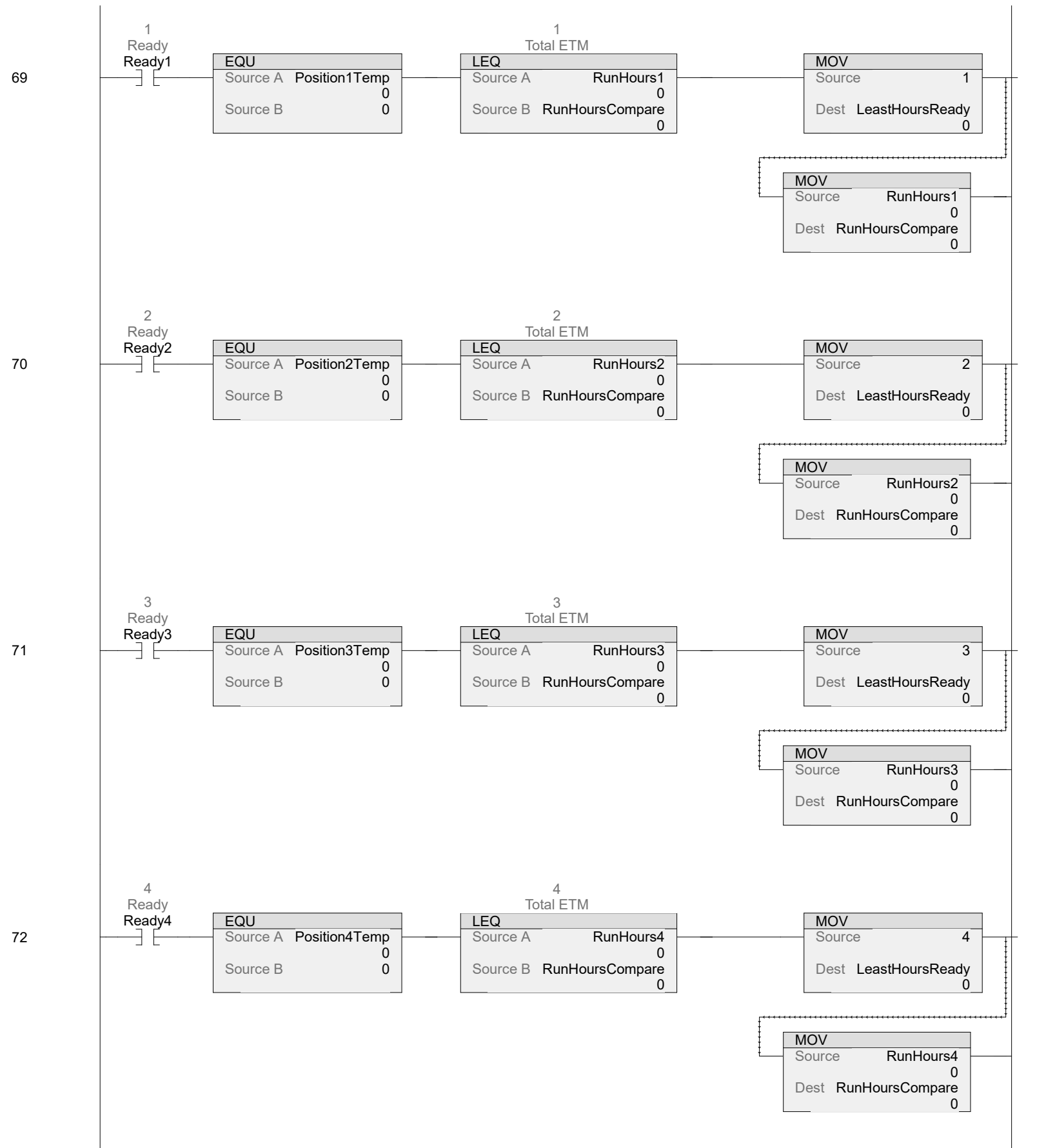
64

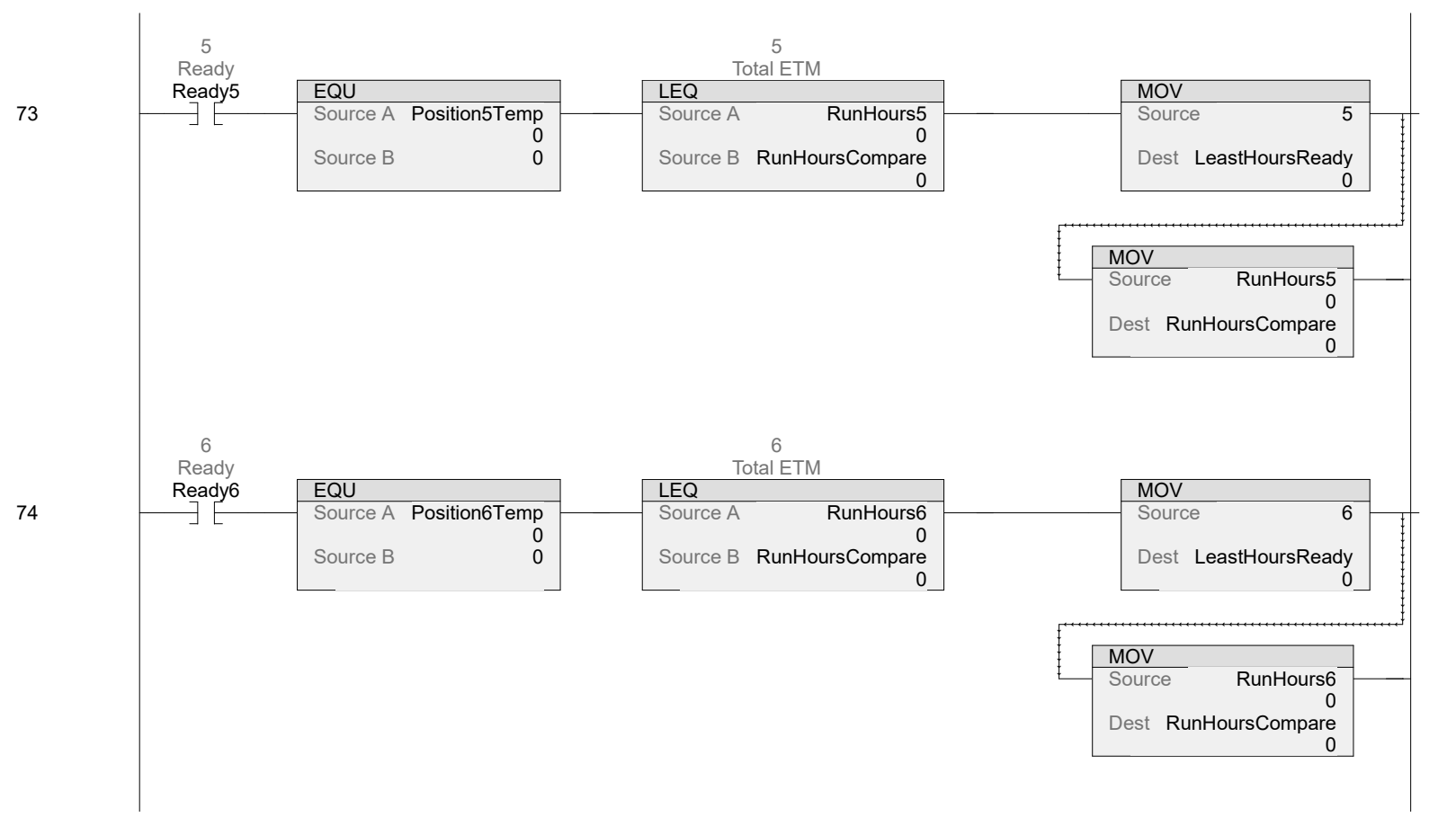


65



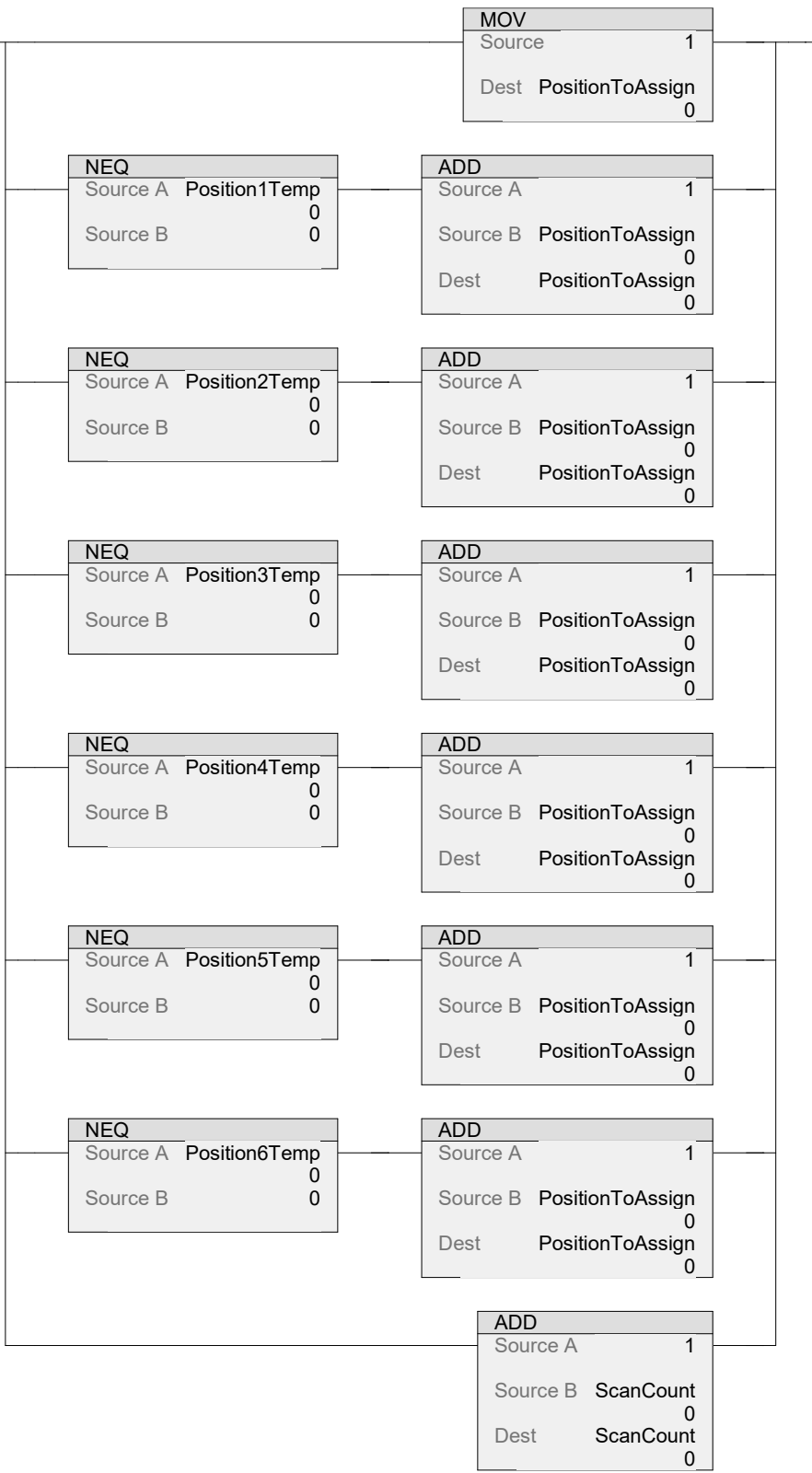




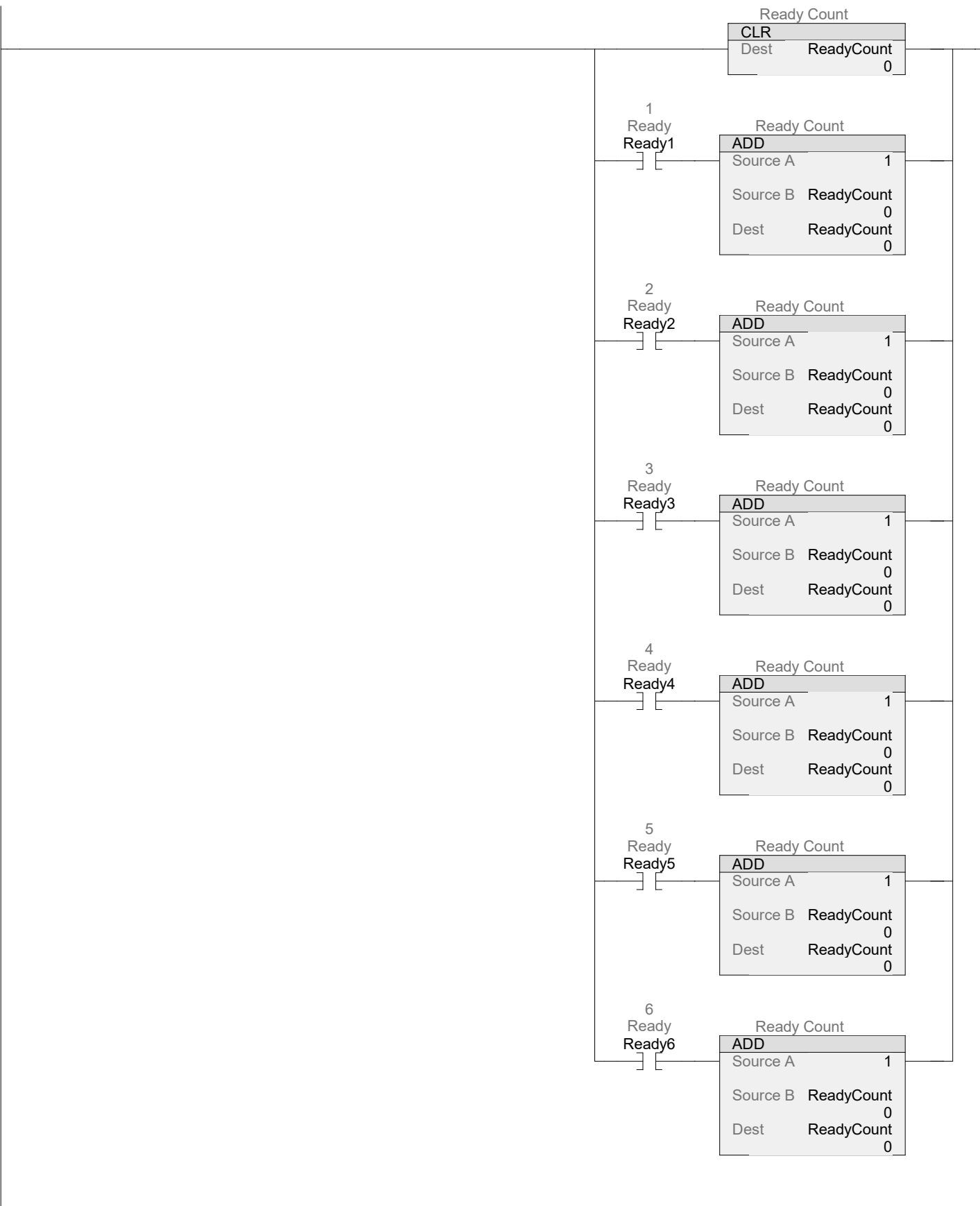


75

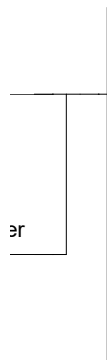
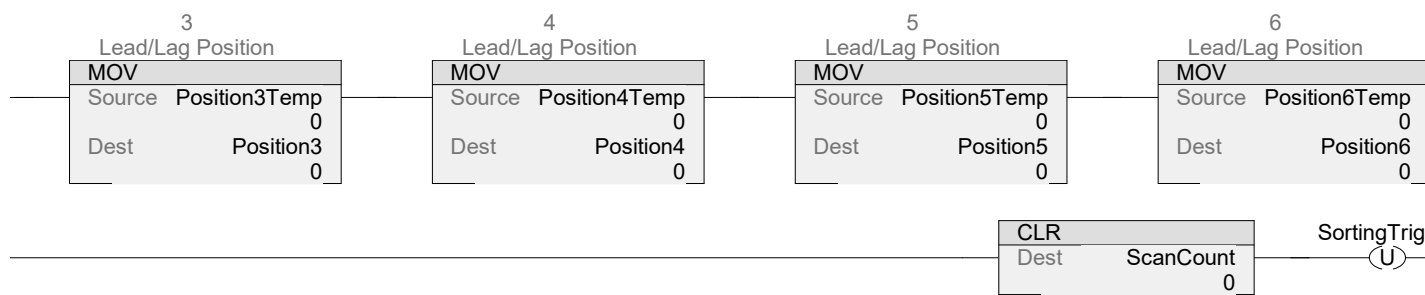
SortingTrigger



76

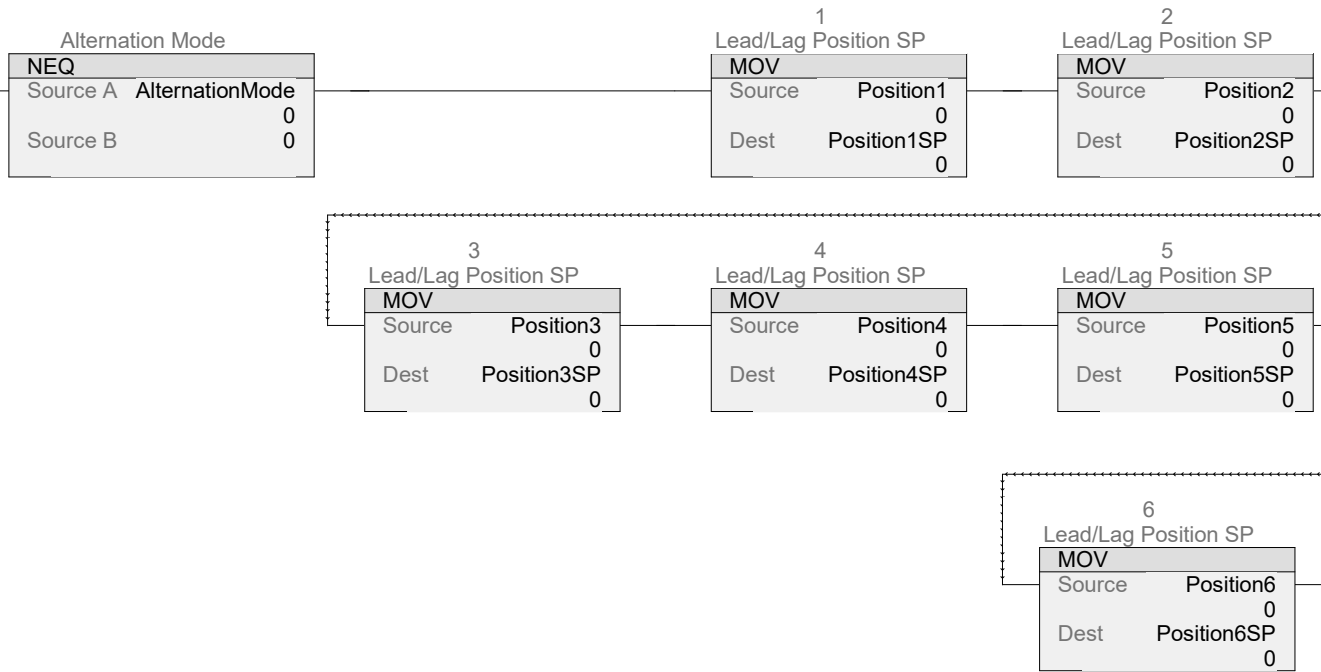






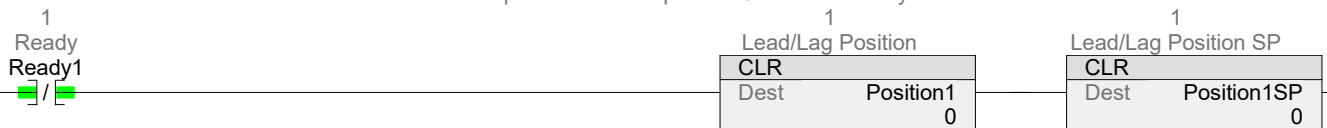
update the position sp to match position for bumpless transfer from manual to other modes

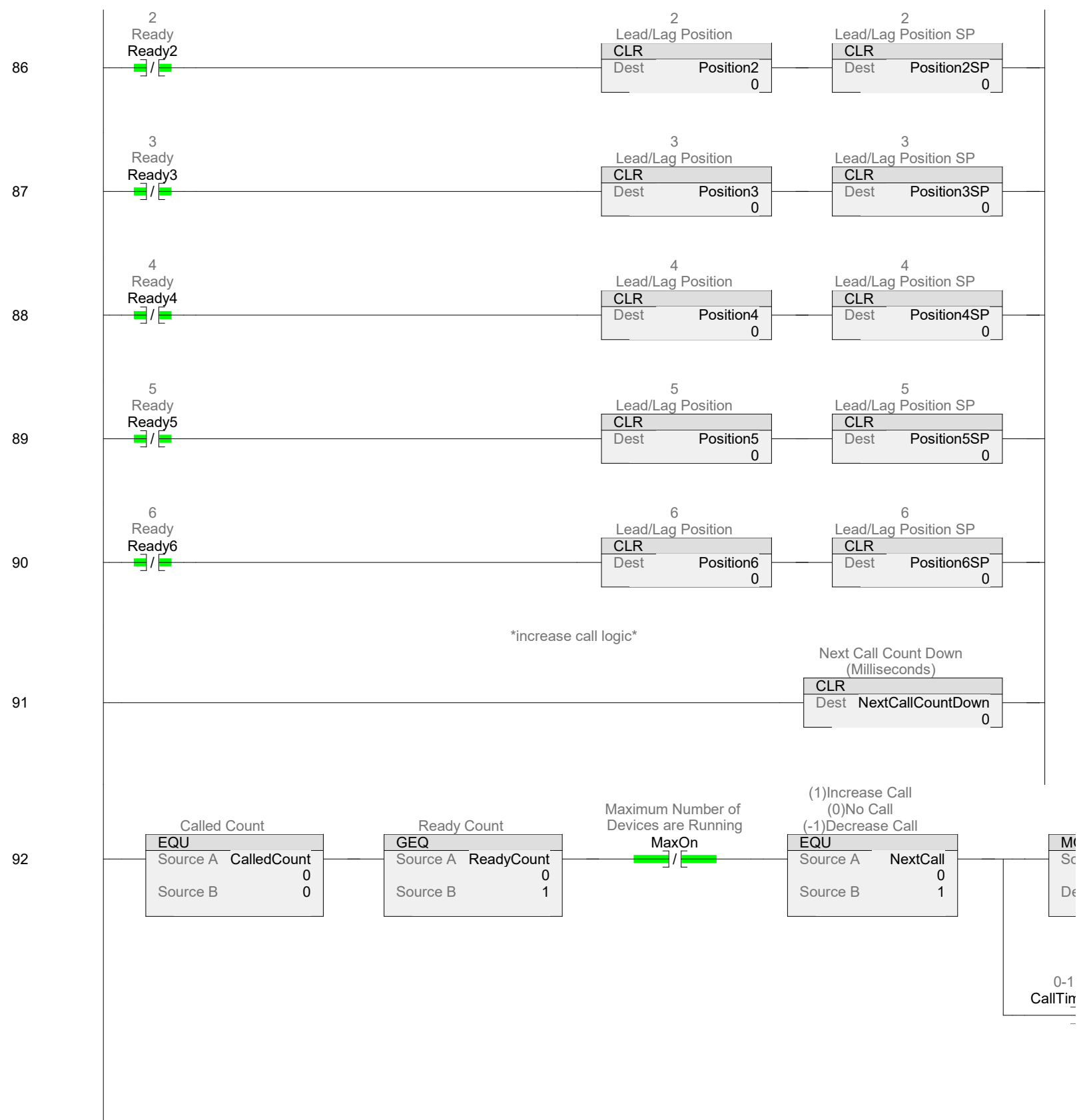
84

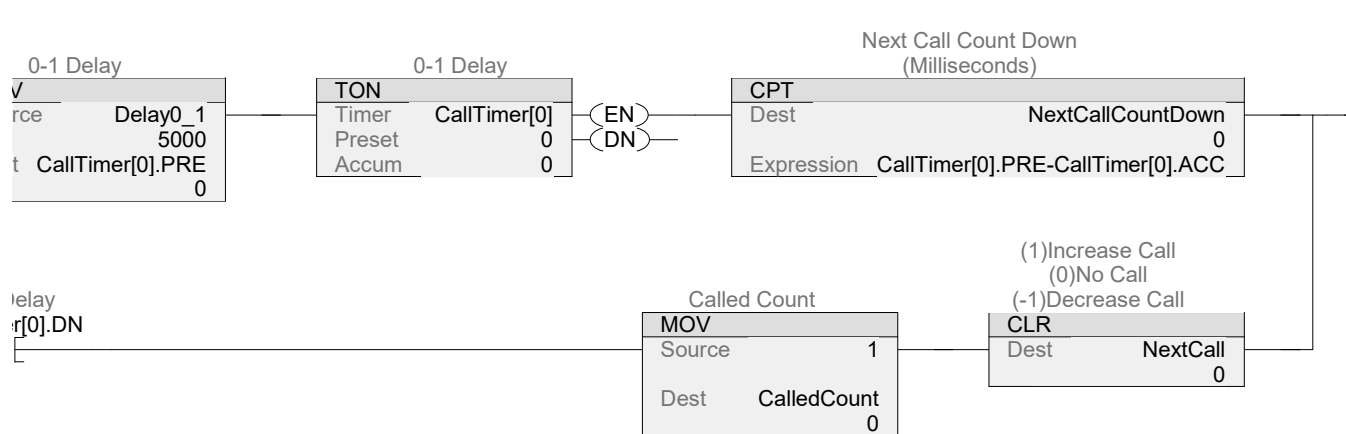


force position and set point to 0 when not ready

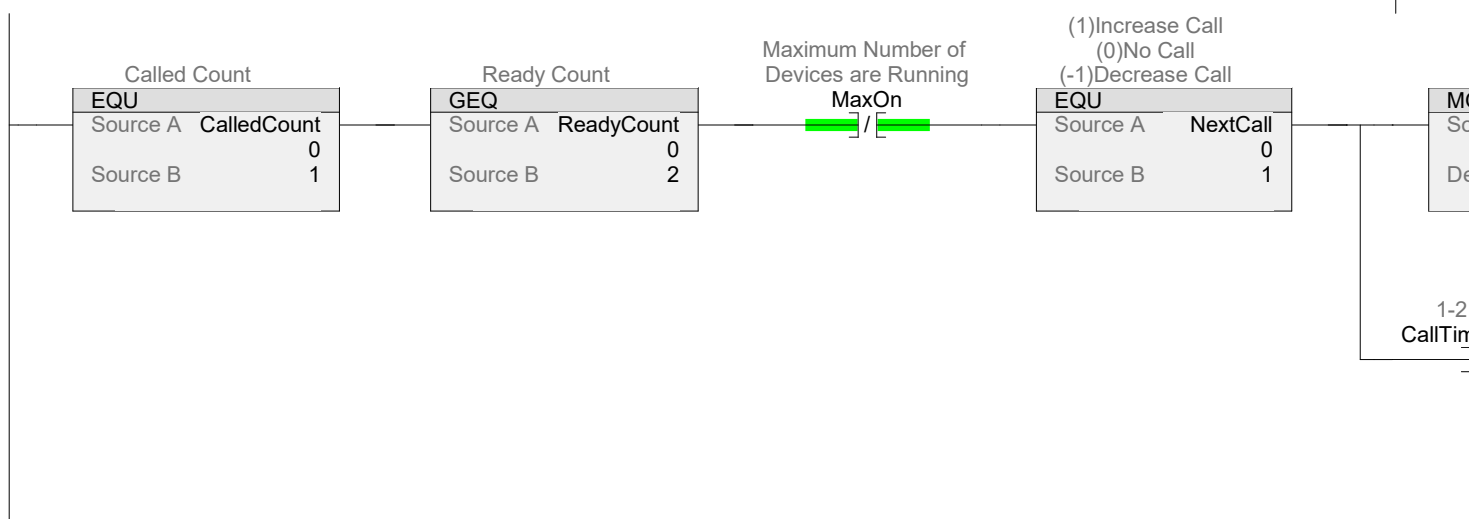
85

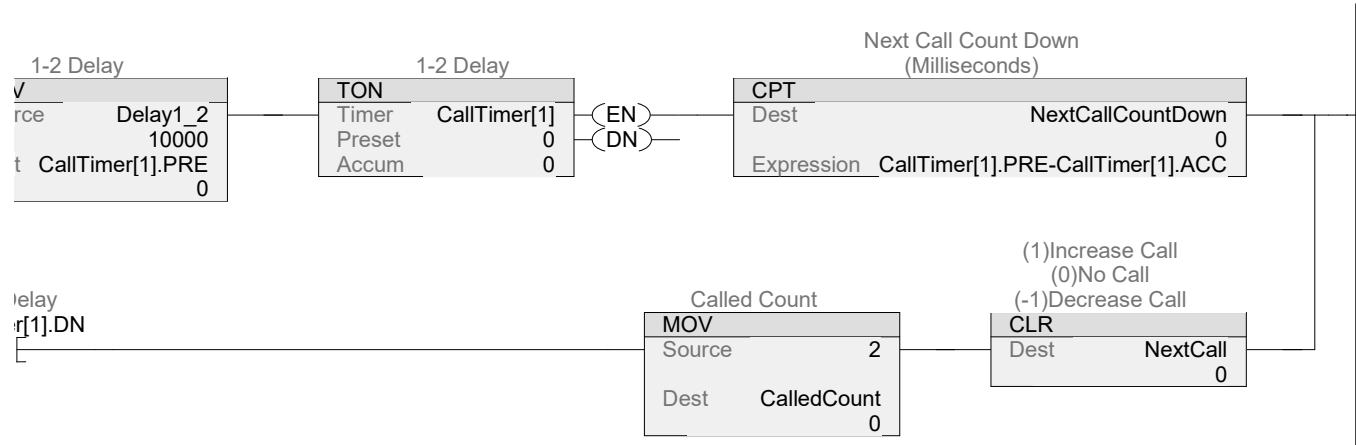




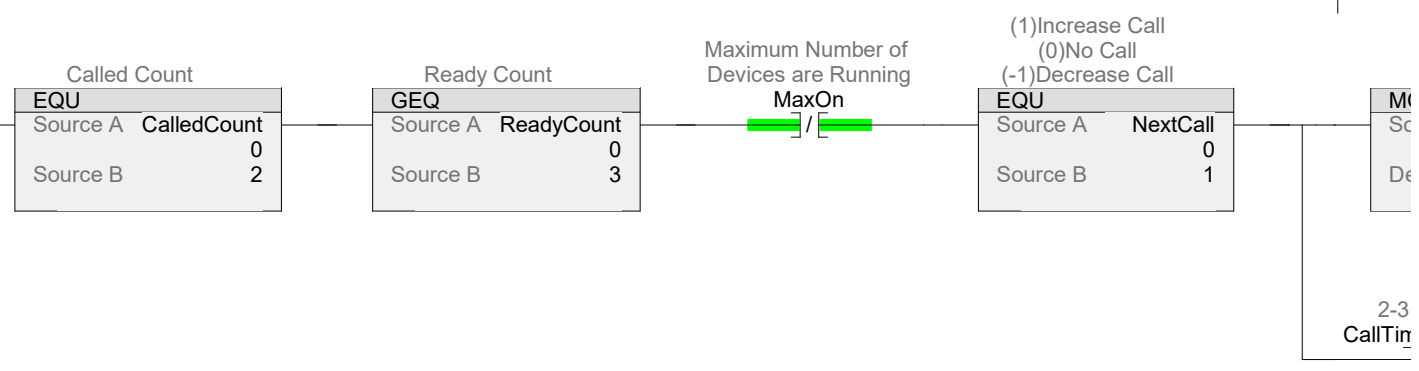


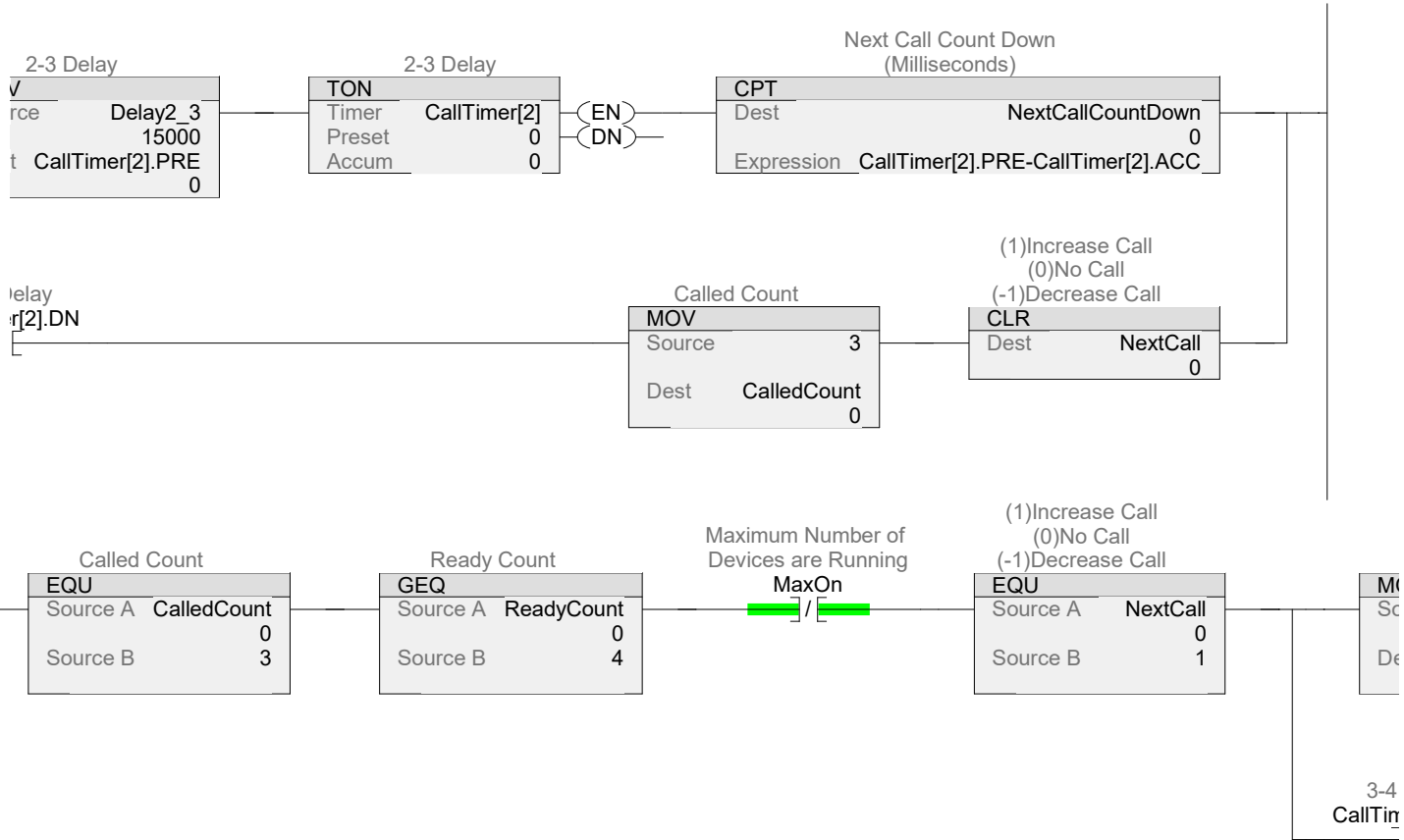
93



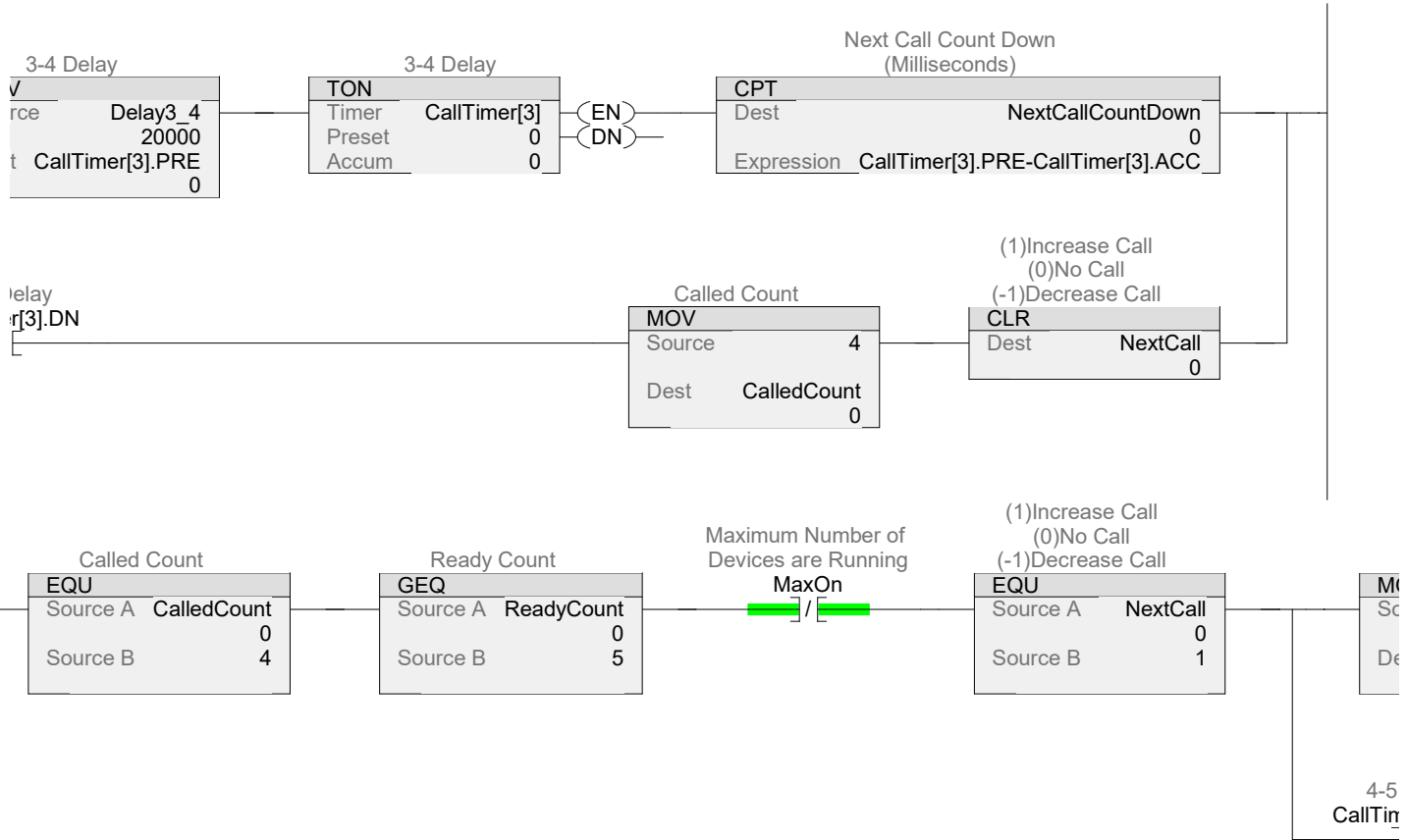


94

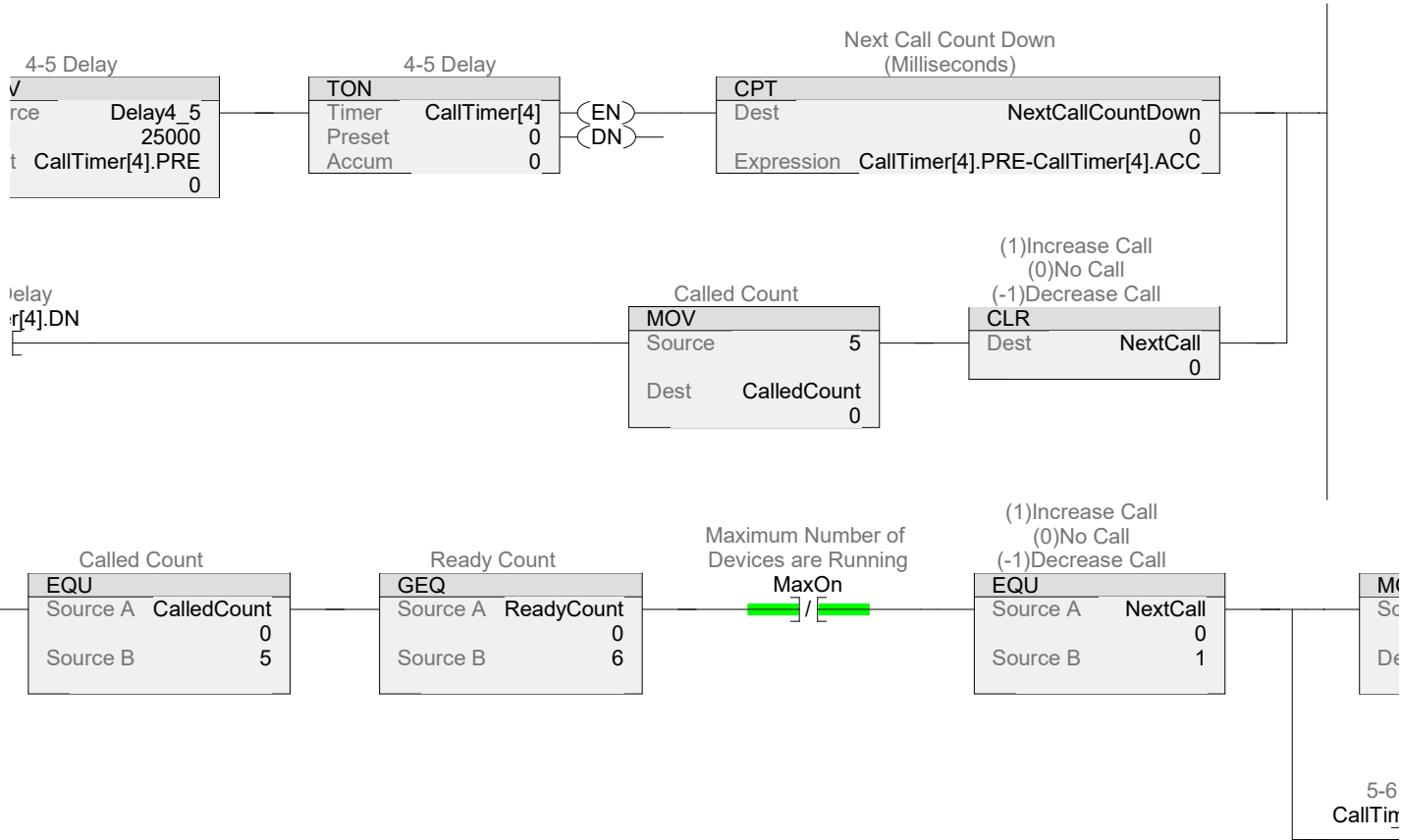




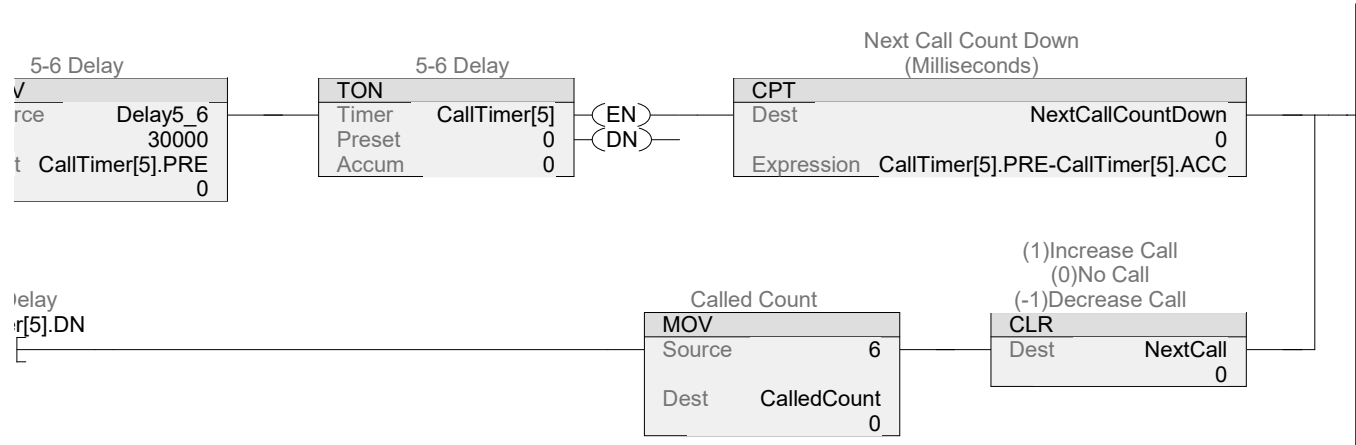
95



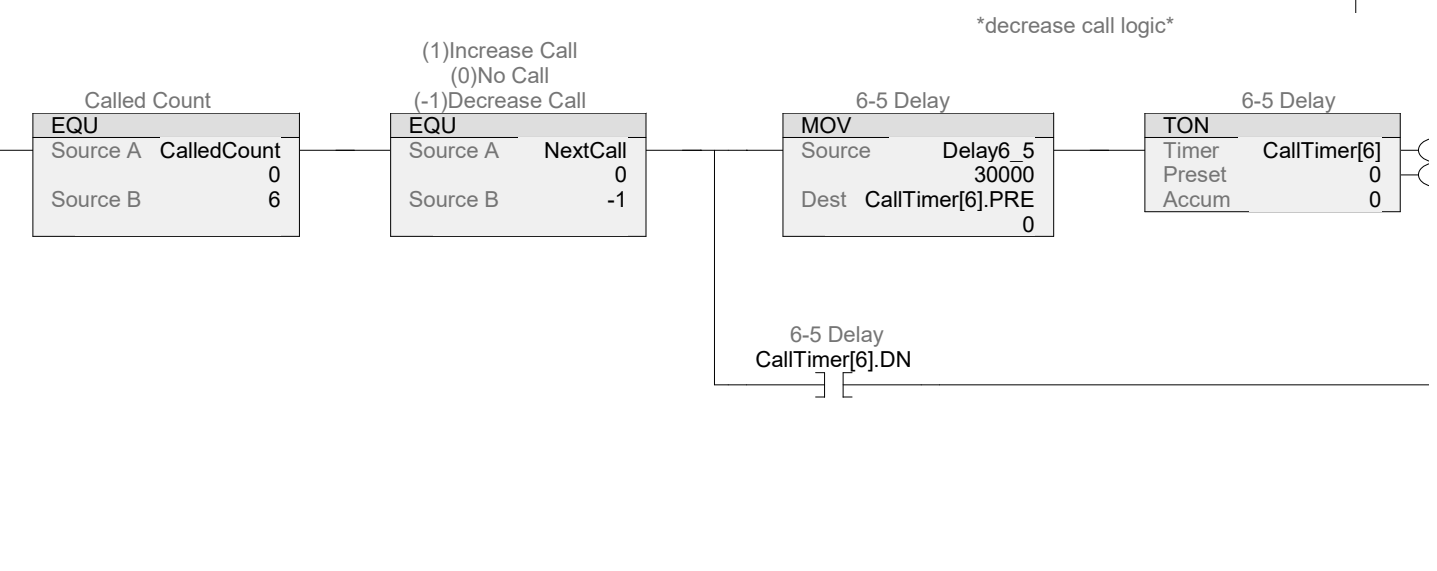
96

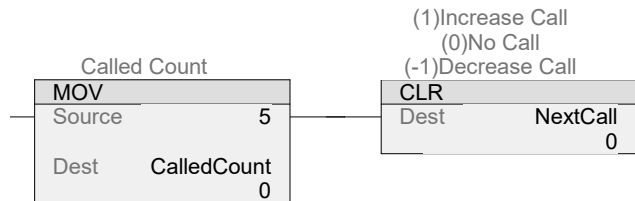
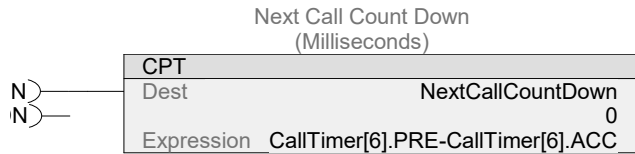


97

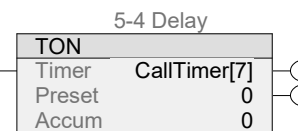
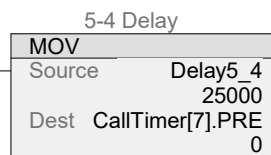
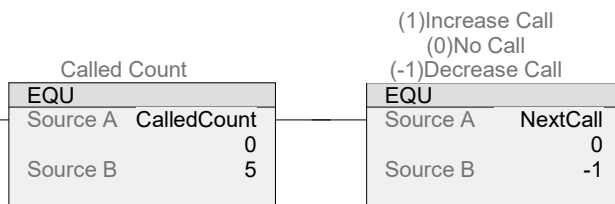


98

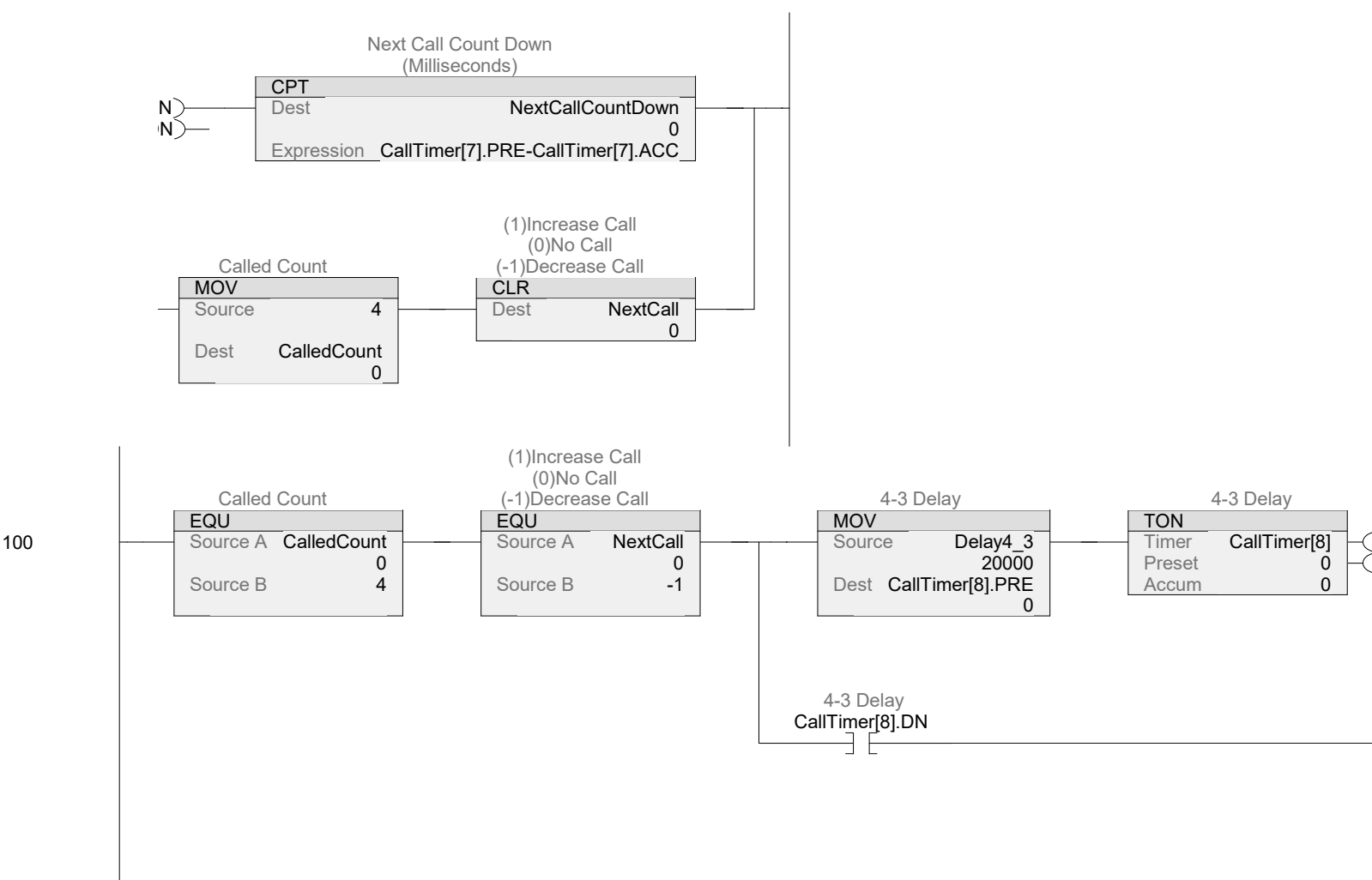


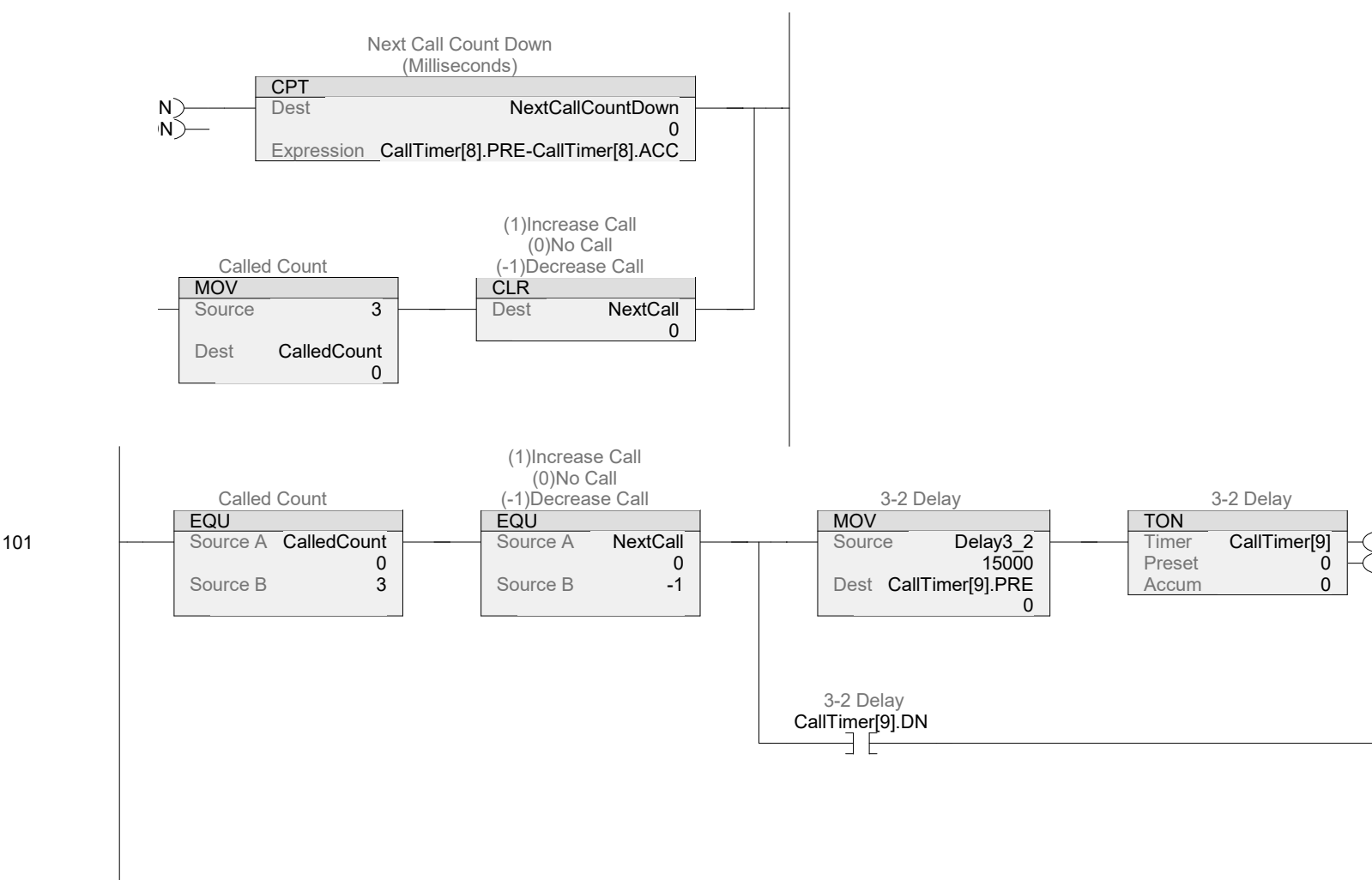


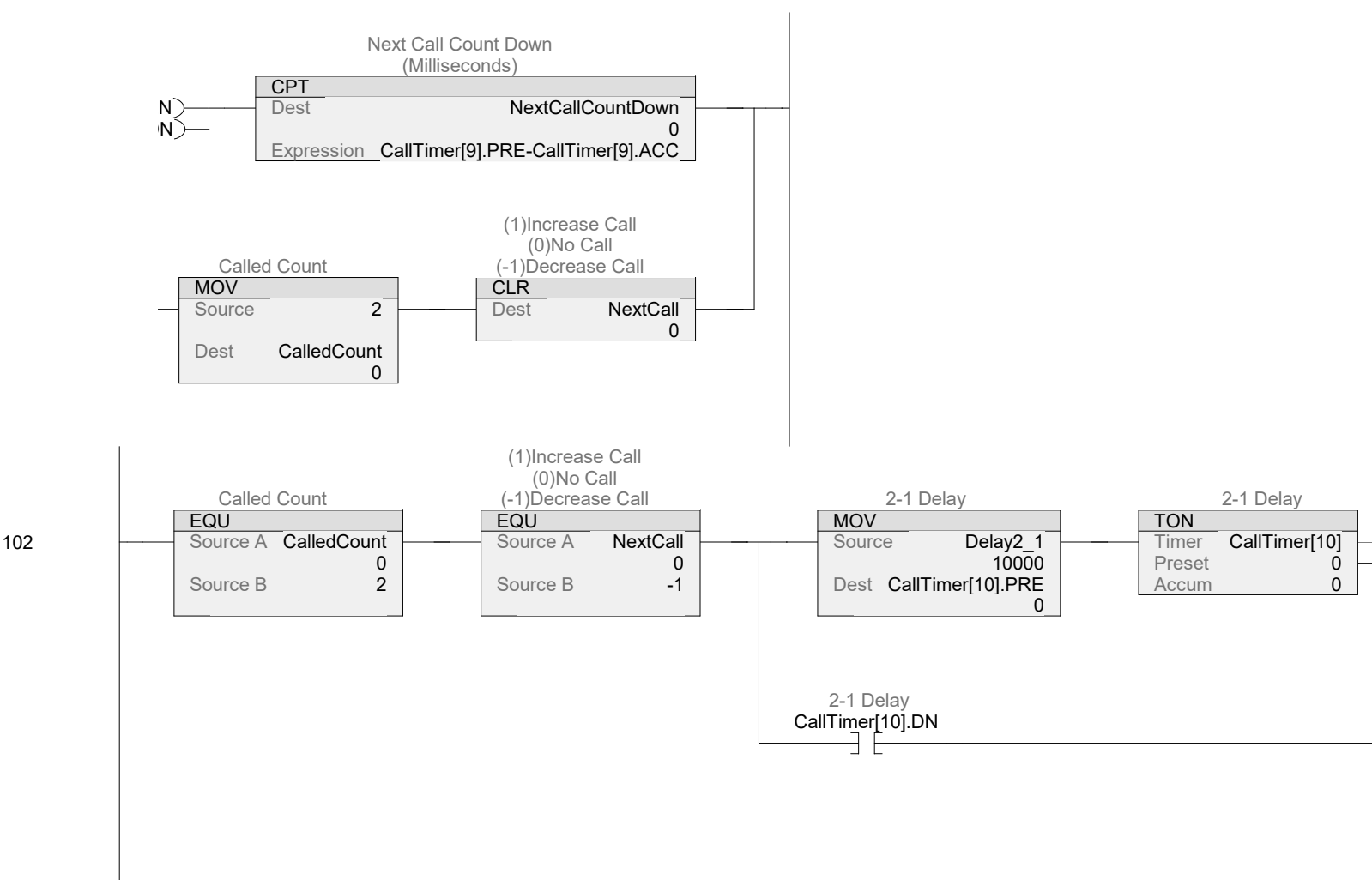
99

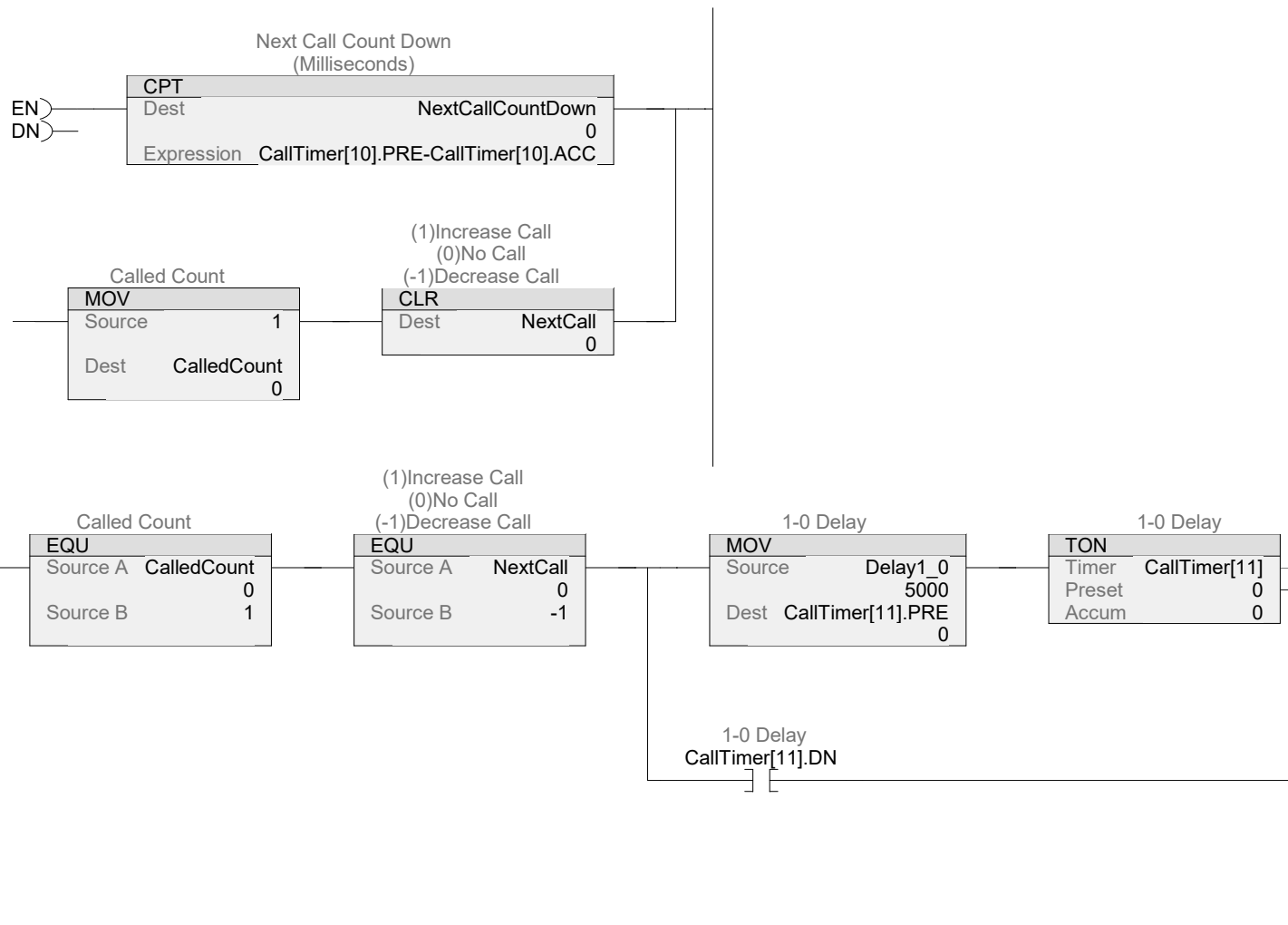


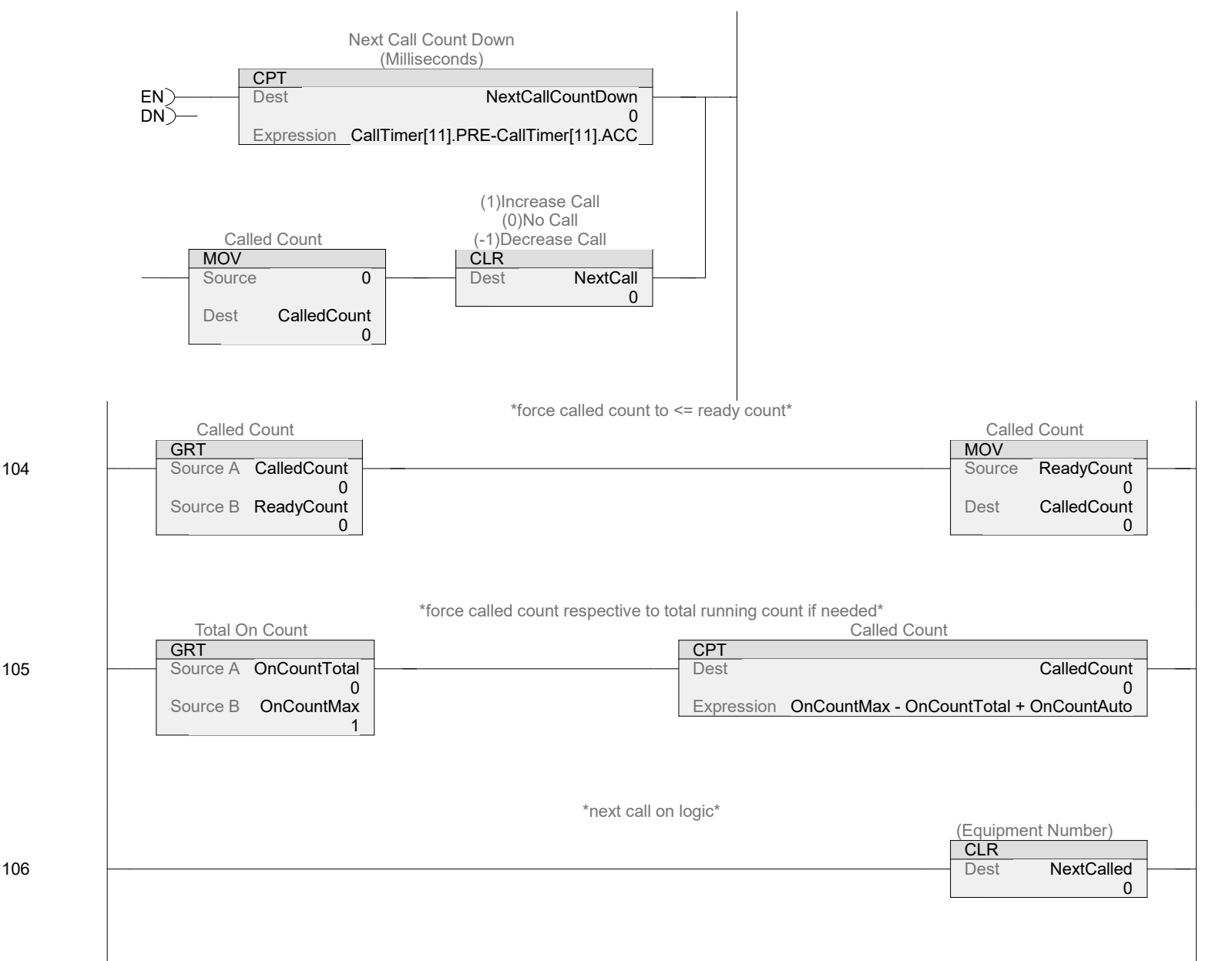
5-4 Delay
CallTimer[7].DN



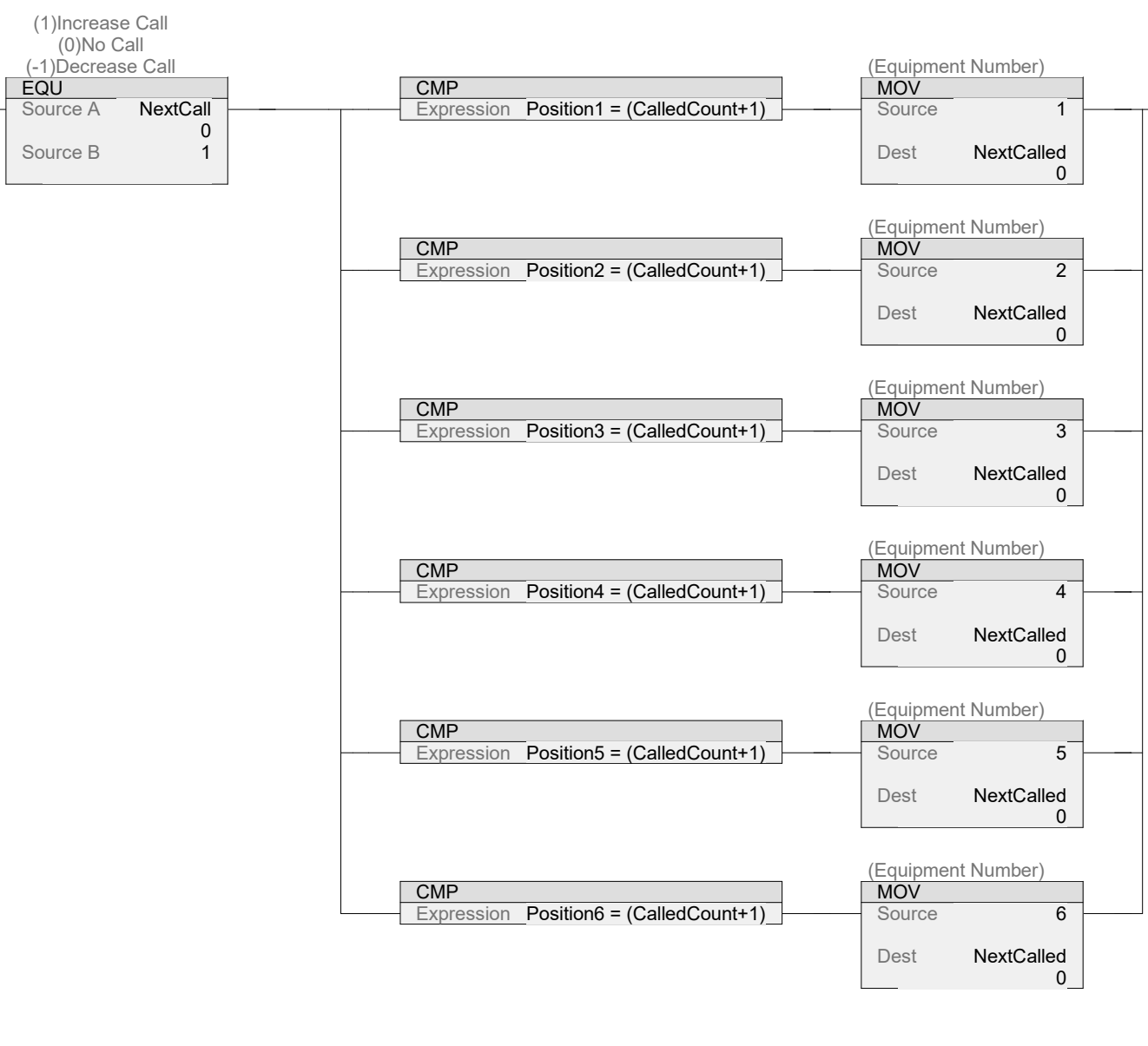




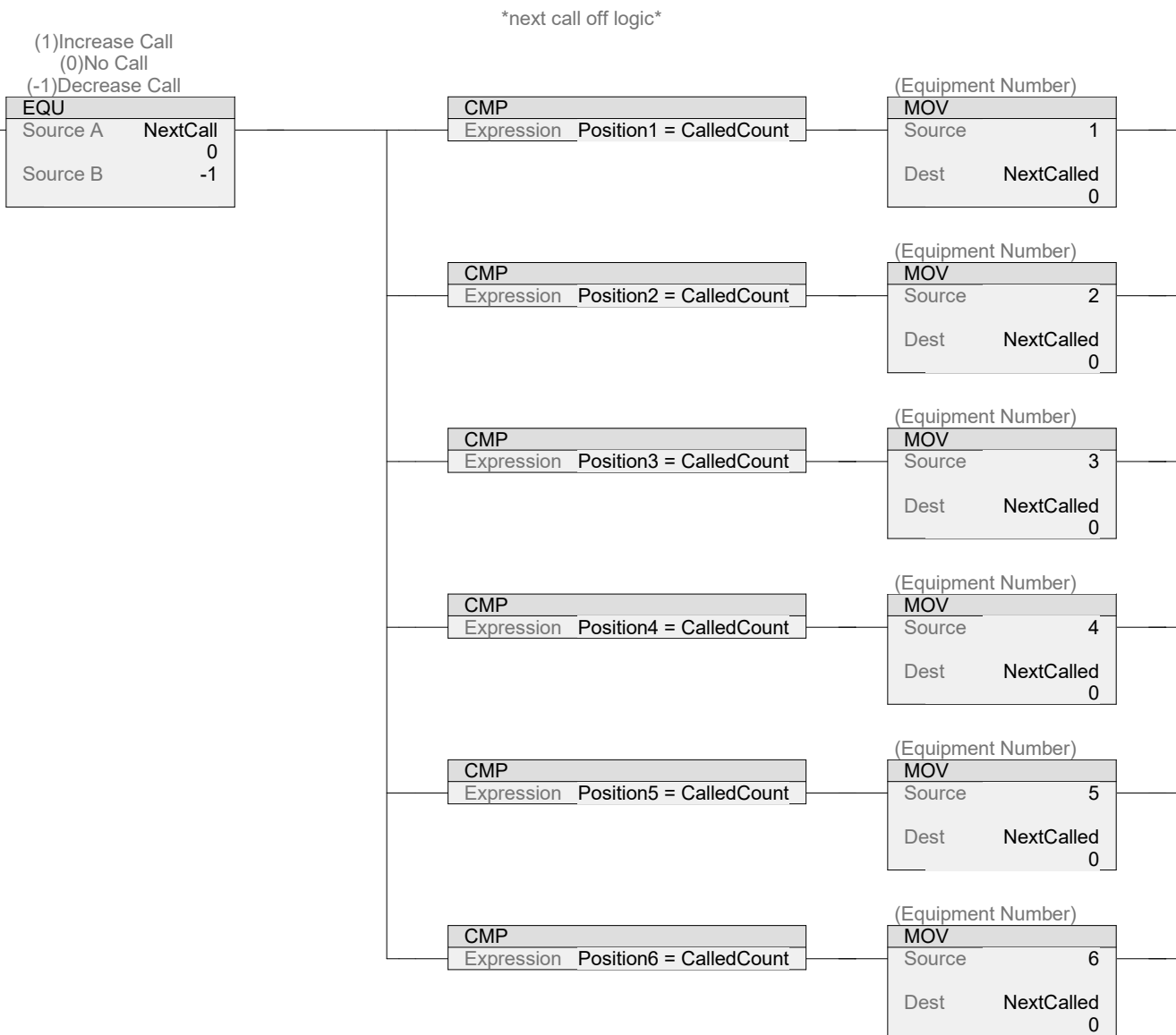




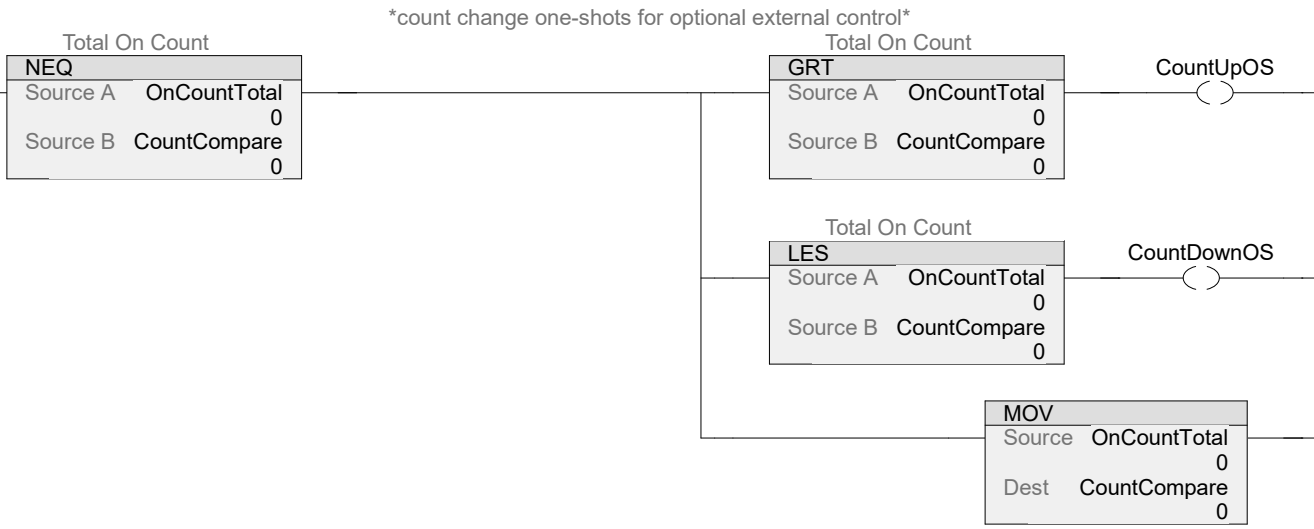
107



108



109

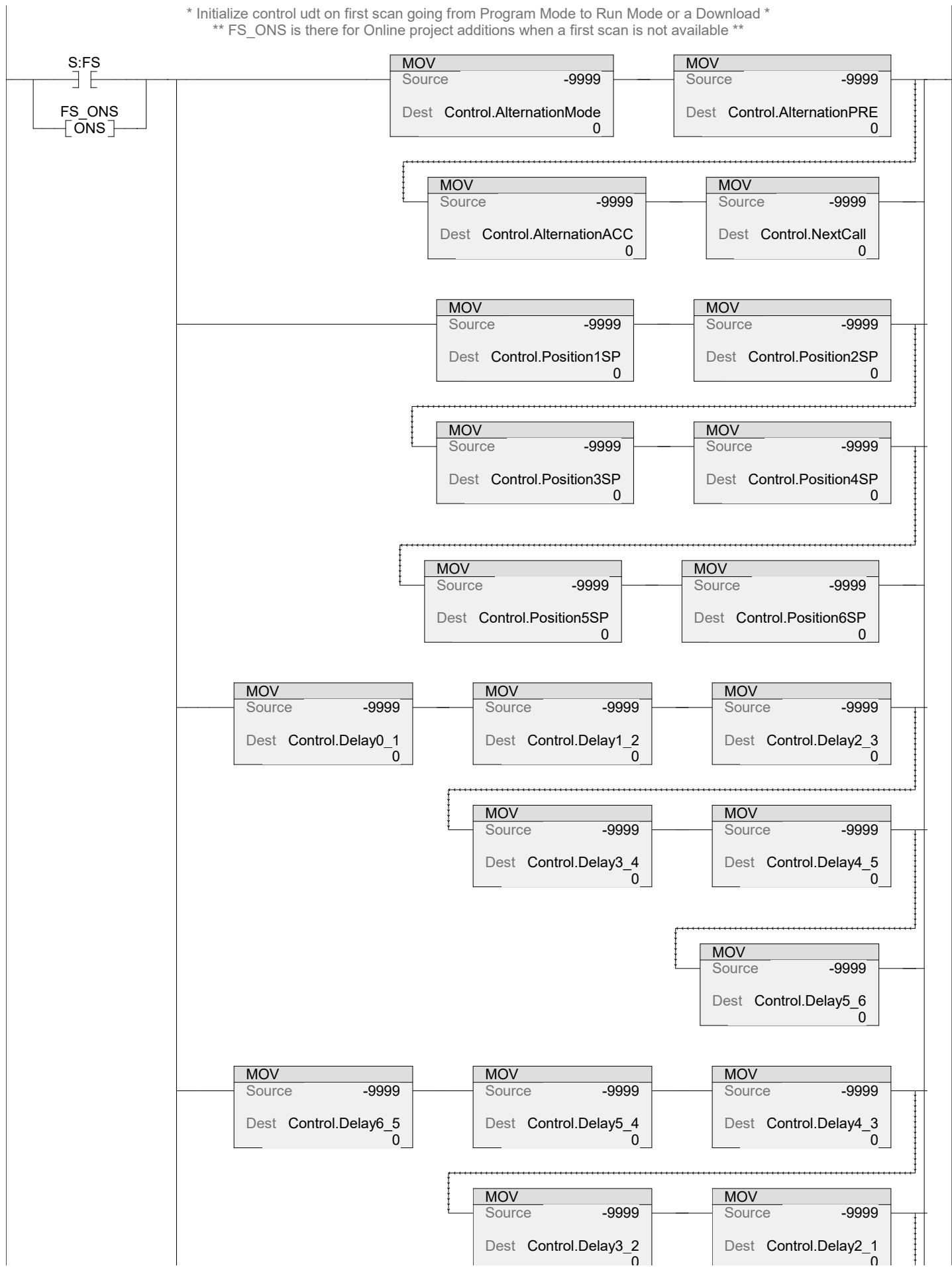


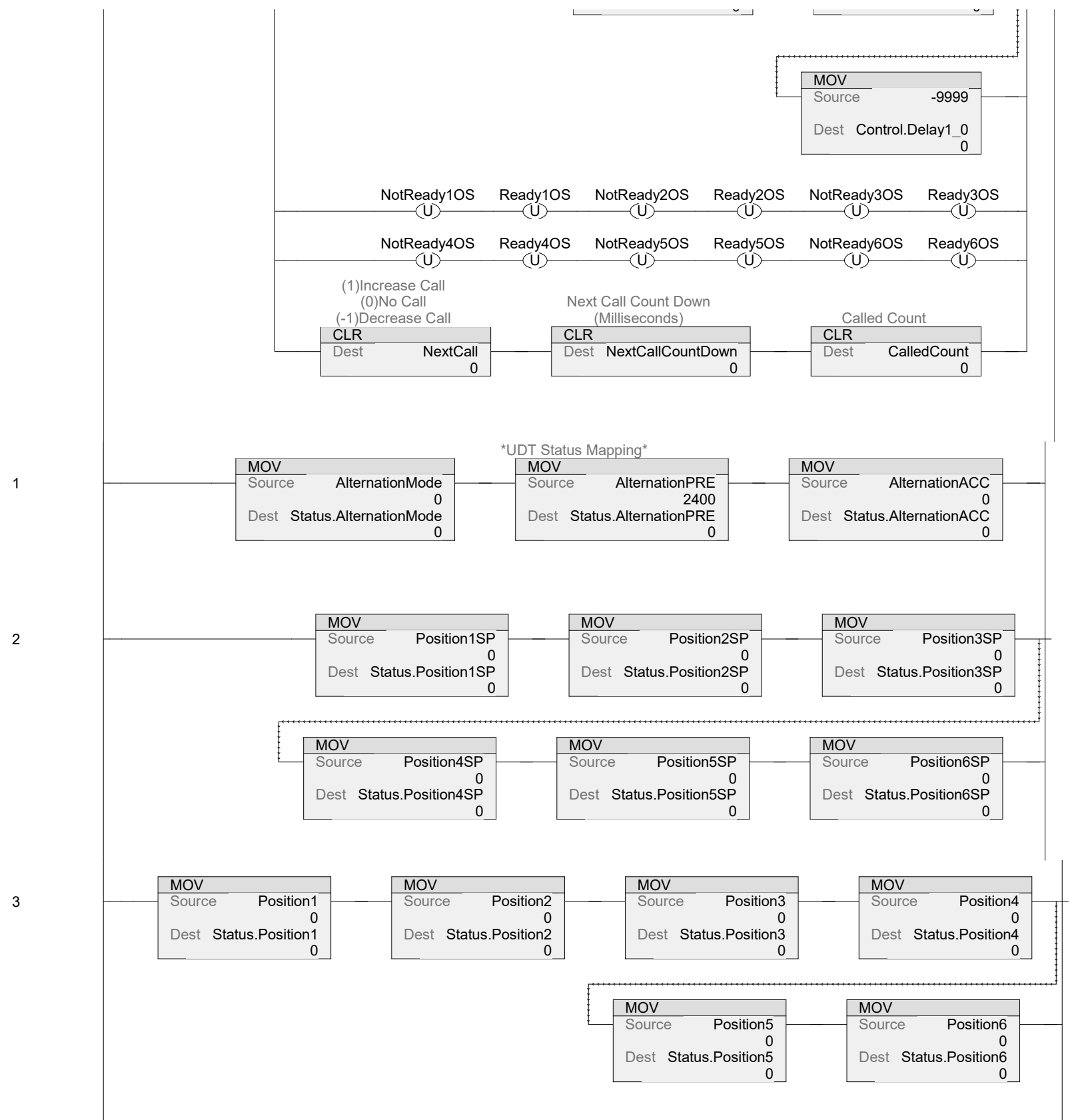
(End)

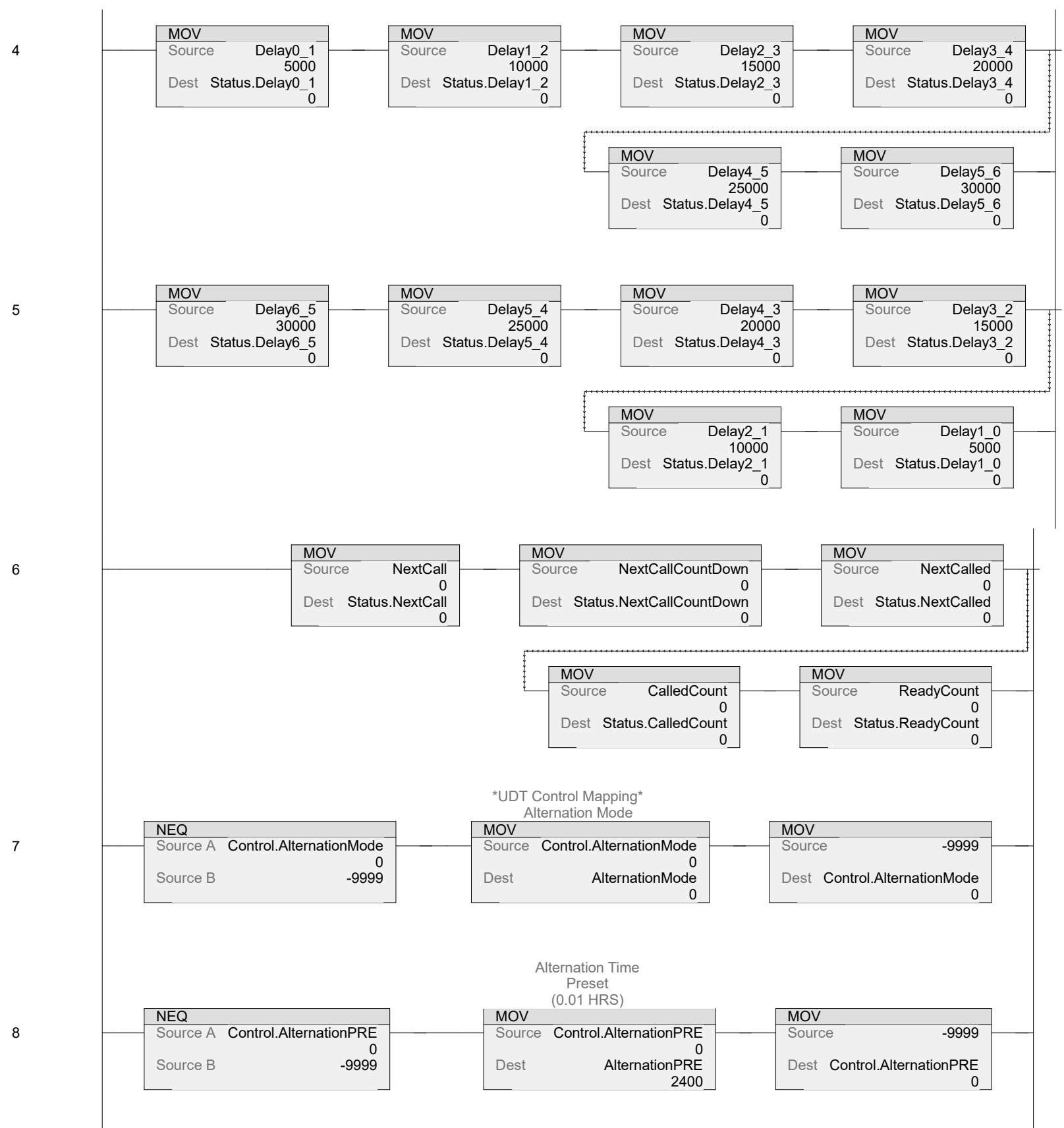
* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *

** FS_ONS is there for Online project additions when a first scan is not available **

0











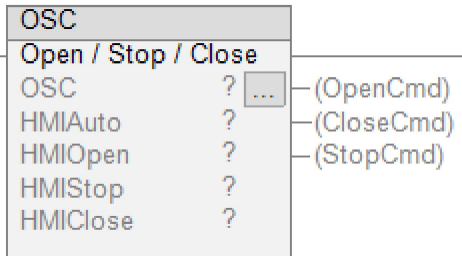


OSC v33.0 First Revision
 SKM

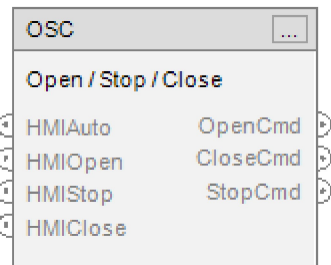
Open / Stop / Close

Available Languages

Relay Ladder



Function Block



Structured Text

OSC();

Parameters

Required	Name	Data Type	Usage	Description
X	OSC	OSC	InOut	Open / Stop / Close
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
	HMIAuto	BOOL	Input	HMI Auto
	AutoOpen	BOOL	Input	Auto Open Command
	HMIOpen	BOOL	Input	HMI Manual Open
	HMIStop	BOOL	Input	HMI Manual Stop
	HMIClose	BOOL	Input	HMI Manual Close
	OpenCmd	BOOL	Output	Open Command
	AutoClose	BOOL	Input	Auto Close Command
	AutoStop	BOOL	Input	Auto Stop Command
	CloseCmd	BOOL	Output	Close Command
	StopCmd	BOOL	Output	Stop Command

Extended Description

- This routine may be used for Open/Stop/Close, Open/Close, and Open type controls.
- The HMIOpen, HMIStop, and HMIClose commands only have effect if HMIAuto is set to 0 (Manual).
- Use the AutoOpen, AutoStop, and AutoClose dot fields accordingly for your application for when the HMIAuto is set to 1 (Auto).

Execution

Condition Description

- EnableIn is false
- EnableIn is true

Revision v33.0 First Revision Notes

.0 Implemented Control/Status Local tags to improve comms efficiency

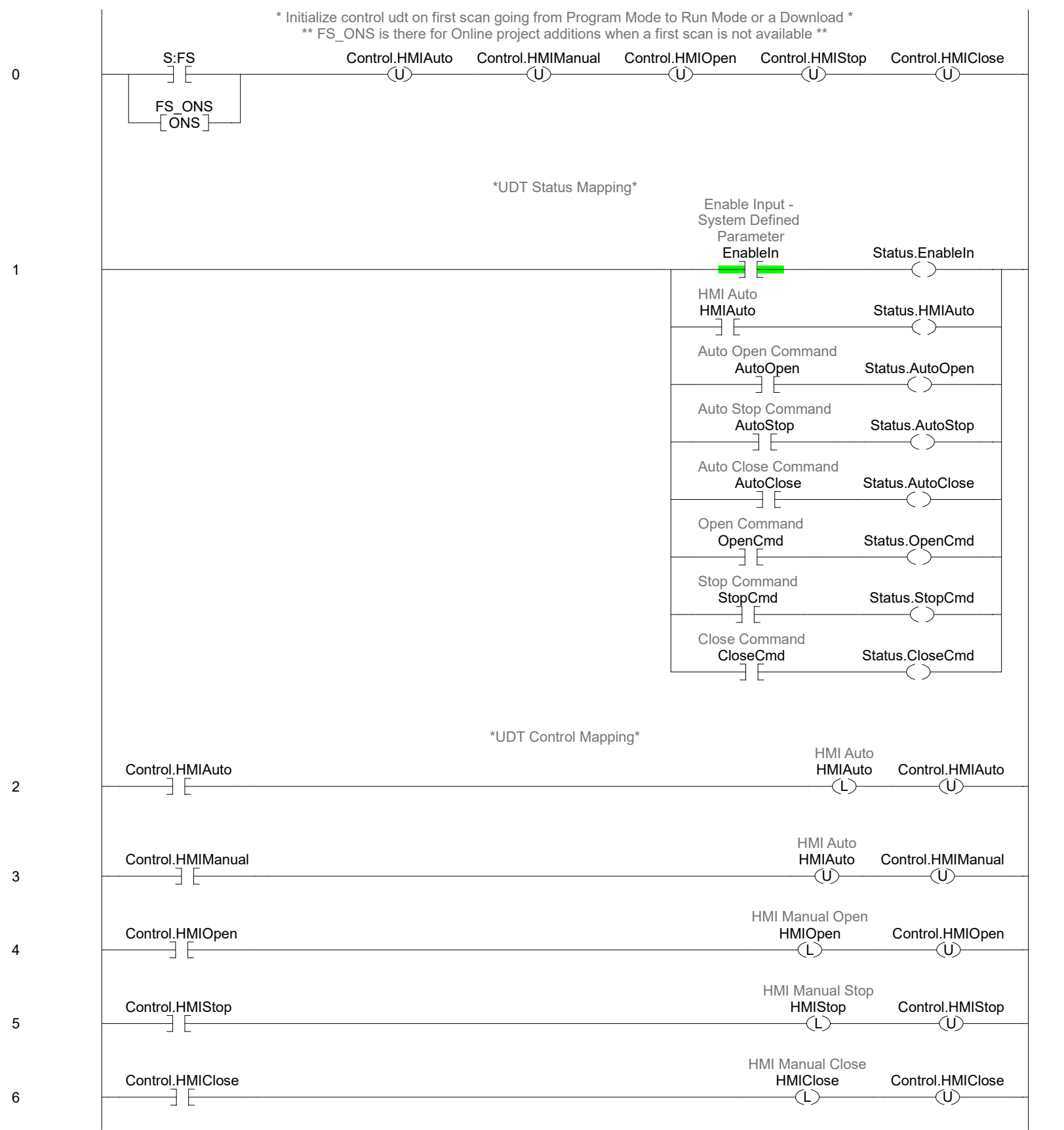
Name	Default	Data Type	Scope
AutoClose	0	BOOL	OSC
Auto Close Command			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AutoClose - OSC/EnableInFalse - 1(XIC)</i>			
<i>AutoClose - OSC/Logic - 1(XIC), 10(XIO), 11(XIC), 9(XIO)</i>			
AutoOpen	0	BOOL	OSC
Auto Open Command			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AutoOpen - OSC/EnableInFalse - 1(XIC)</i>			
<i>AutoOpen - OSC/Logic - 1(XIC), 10(XIO), 11(XIO), 9(XIC)</i>			
AutoStop	0	BOOL	OSC
Auto Stop Command			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AutoStop - OSC/EnableInFalse - 1(XIC)</i>			
<i>AutoStop - OSC/Logic - 1(XIC), 10(XIC), 11(XIO), 9(XIO)</i>			
CloseCmd	0	BOOL	OSC
Close Command			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>CloseCmd - OSC/EnableInFalse - *7(OTU), 1(XIC)</i>			
<i>CloseCmd - OSC/Logic - *11(OE), 1(XIC), 7(XIO)</i>			
EnableIn	1	BOOL	OSC
Enable Input - System Defined Parameter			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>EnableIn - OSC/EnableInFalse - 1(XIC)</i>			
<i>EnableIn - OSC/Logic - 1(XIC)</i>			
HMIAuto	0	BOOL	OSC
HMI Auto			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIAuto - OSC/EnableInFalse - *2(OTL), *3(OTU), 1(XIC)</i>			
<i>HMIAuto - OSC/Logic - *2(OTL), *3(OTU), 1(XIC), 10(XIC), 10(XIO), 11(XIC), 11(XIO), 9(XIC), 9(XIO)</i>			
HMIClose	0	BOOL	OSC
HMI Manual Close			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIClose - OSC/EnableInFalse - *10(OTU), 10(XIC)</i>			
<i>HMIClose - OSC/Logic - *14(OTU), *6(OTL), 10(XIO), 11(XIC), 14(XIC), 9(XIO)</i>			

HMIOpen	0	BOOL	OSC
HMI Manual Open			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIOpen - OSC/EnableInFalse - *8(OTU), 8(XIC)</i>			
<i>HMIOpen - OSC/Logic - *12(OTU), *4(OTL), 10(XIO), 11(XIO), 12(XIC), 9(XIC)</i>			
HMIStop	0	BOOL	OSC
HMI Manual Stop			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIStop - OSC/EnableInFalse - *9(OTU), 9(XIC)</i>			
<i>HMIStop - OSC/Logic - *13(OTU), *5(OTL), 10(XIC), 11(XIO), 13(XIC), 9(XIO)</i>			
OpenCmd	0	BOOL	OSC
Open Command			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>OpenCmd - OSC/EnableInFalse - *7(OTU), 1(XIC)</i>			
<i>OpenCmd - OSC/Logic - *9(OTE), 1(XIC), 8(XIO)</i>			
StopCmd	0	BOOL	OSC
Stop Command			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>StopCmd - OSC/EnableInFalse - *7(OTL), 1(XIC)</i>			
<i>StopCmd - OSC/Logic - *10(OTE), 1(XIC), 10(XIC)</i>			

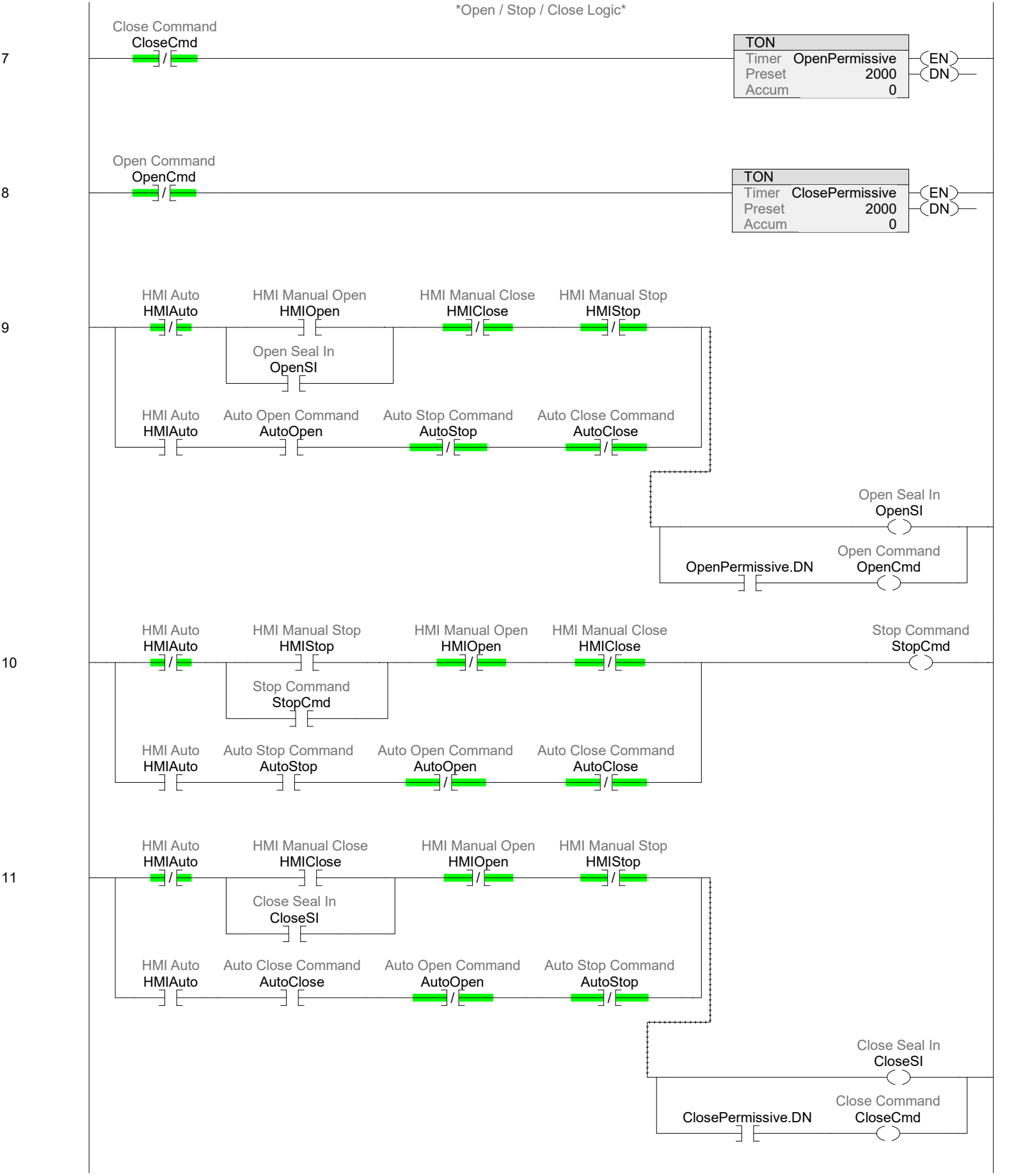
Name	Default	Data Type	Scope
ClosePermissive		TIMER	OSC
Usage:	Local Tag		
External Access:	Read/Write		
<i>ClosePermissive - OSC/EnableInFalse - *7(RES)</i>			
<i>ClosePermissive - OSC/Logic - *8(TON)</i>			
ClosePermissive.DN	0	BOOL	
<i>ClosePermissive.DN - OSC/Logic - 11(XIC)</i>			
CloseSI	0	BOOL	OSC
Close Seal In			
Usage:	Local Tag		
External Access:	Read/Write		
<i>CloseSI - OSC/EnableInFalse - *7(OTU)</i>			
<i>CloseSI - OSC/Logic - *11(O TE), 11(XIC)</i>			
Control		OSC_Control	OSC
Usage:	Local Tag		
External Access:	Read/Write		
Control.HMIAuto	0	BOOL	
<i>Control.HMIAuto - OSC/EnableInFalse - *0(OTU), *2(OTU), 2(XIC)</i>			
<i>Control.HMIAuto - OSC/Logic - *0(OTU), *2(OTU), 2(XIC)</i>			
Control.HMIManual	0	BOOL	
<i>Control.HMIManual - OSC/EnableInFalse - *0(OTU), *3(OTU), 3(XIC)</i>			
<i>Control.HMIManual - OSC/Logic - *0(OTU), *3(OTU), 3(XIC)</i>			
Control.HMIOpen	0	BOOL	
<i>Control.HMIOpen - OSC/EnableInFalse - *0(OTU), *4(OTU), 4(XIC)</i>			
<i>Control.HMIOpen - OSC/Logic - *0(OTU), *4(OTU), 4(XIC)</i>			
Control.HMIStop	0	BOOL	
<i>Control.HMIStop - OSC/EnableInFalse - *0(OTU), *5(OTU), 5(XIC)</i>			
<i>Control.HMIStop - OSC/Logic - *0(OTU), *5(OTU), 5(XIC)</i>			
Control.HMIClose	0	BOOL	
<i>Control.HMIClose - OSC/EnableInFalse - *0(OTU), *6(OTU), 6(XIC)</i>			
<i>Control.HMIClose - OSC/Logic - *0(OTU), *6(OTU), 6(XIC)</i>			
FS_ONS	0	BOOL	OSC
Usage:	Local Tag		
External Access:	None		
<i>FS_ONS - OSC/EnableInFalse - *0(ONS)</i>			
<i>FS_ONS - OSC/Logic - *0(ONS)</i>			
OpenPermissive		TIMER	OSC
Usage:	Local Tag		
External Access:	Read/Write		
<i>OpenPermissive - OSC/EnableInFalse - *7(RES)</i>			
<i>OpenPermissive - OSC/Logic - *7(TON)</i>			
OpenPermissive.DN	0	BOOL	
<i>OpenPermissive.DN - OSC/Logic - 9(XIC)</i>			
OpenSI	0	BOOL	OSC
Open Seal In			
Usage:	Local Tag		
External Access:	Read/Write		
<i>OpenSI - OSC/EnableInFalse - *7(OTU)</i>			
<i>OpenSI - OSC/Logic - *9(O TE), 9(XIC)</i>			
Status		OSC_Status	OSC
Usage:	Local Tag		
External Access:	Read Only		
Status.EnableIn	0	BOOL	
<i>Status.EnableIn - OSC/EnableInFalse - *1(O TE)</i>			
<i>Status.EnableIn - OSC/Logic - *1(O TE)</i>			
Status.HMIAuto	0	BOOL	

Status (Continued)

<i>Status.HMIAuto - OSC/EnableInFalse - *I(O TE)</i>	
<i>Status.HMIAuto - OSC/Logic - *I(O TE)</i>	
Status.AutoOpen	0
<i>Status.AutoOpen - OSC/EnableInFalse - *I(O TE)</i>	BOOL
<i>Status.AutoOpen - OSC/Logic - *I(O TE)</i>	
Status.AutoStop	0
<i>Status.AutoStop - OSC/EnableInFalse - *I(O TE)</i>	BOOL
<i>Status.AutoStop - OSC/Logic - *I(O TE)</i>	
Status.AutoClose	0
<i>Status.AutoClose - OSC/EnableInFalse - *I(O TE)</i>	BOOL
<i>Status.AutoClose - OSC/Logic - *I(O TE)</i>	
Status.OpenCmd	0
<i>Status.OpenCmd - OSC/EnableInFalse - *I(O TE)</i>	BOOL
<i>Status.OpenCmd - OSC/Logic - *I(O TE)</i>	
Status.StopCmd	0
<i>Status.StopCmd - OSC/EnableInFalse - *I(O TE)</i>	BOOL
<i>Status.StopCmd - OSC/Logic - *I(O TE)</i>	
Status.CloseCmd	0
<i>Status.CloseCmd - OSC/EnableInFalse - *I(O TE)</i>	BOOL
<i>Status.CloseCmd - OSC/Logic - *I(O TE)</i>	



Open / Stop / Close Logic



Hand Switch Bit Unlatch Logic

12

HMI Manual Open
HMIOpen



HMI Manual Open
HMIOpen



13

HMI Manual Stop
HMIStop



HMI Manual Stop
HMIStop



14

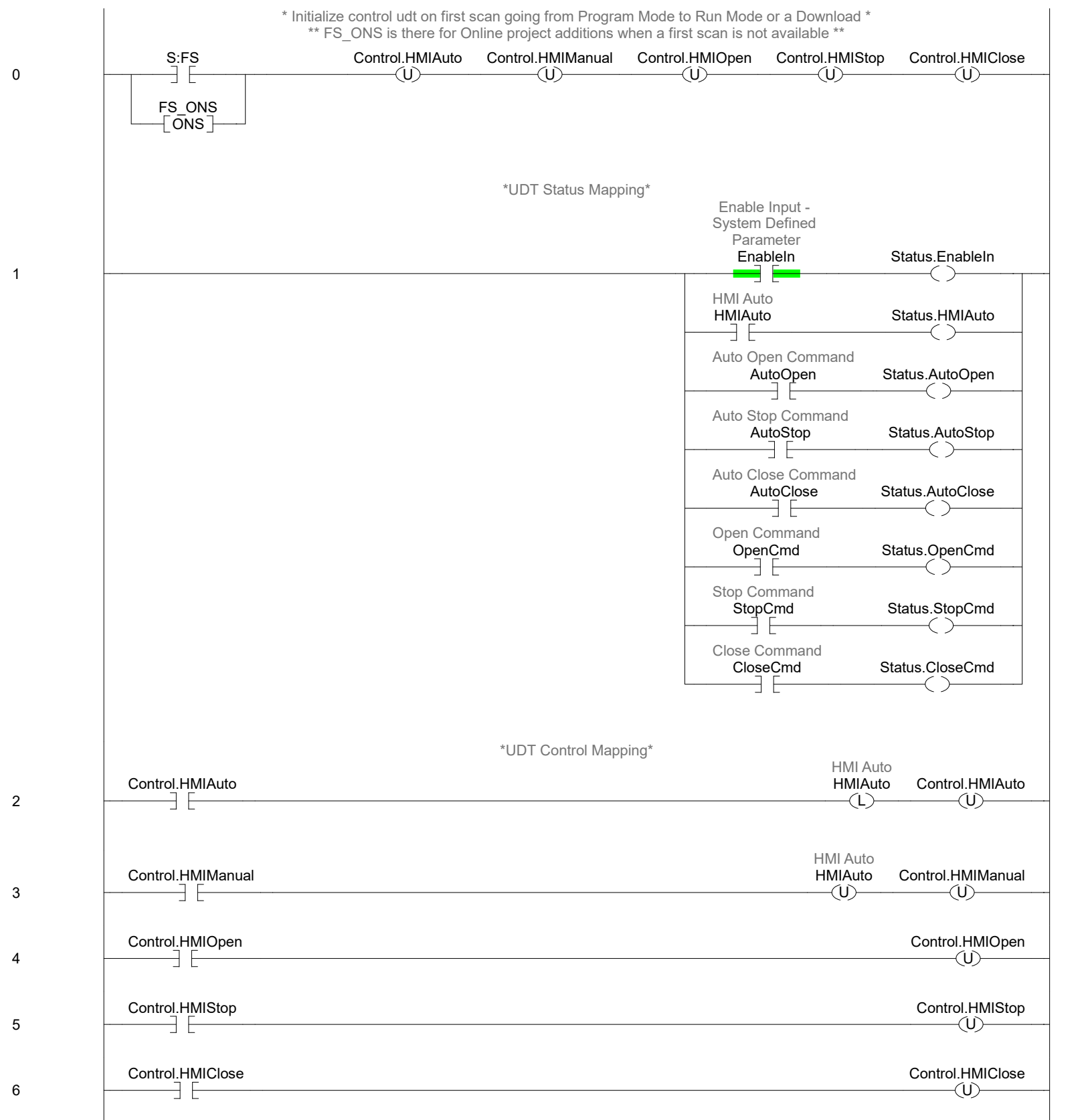
HMI Manual Close
HMIClose

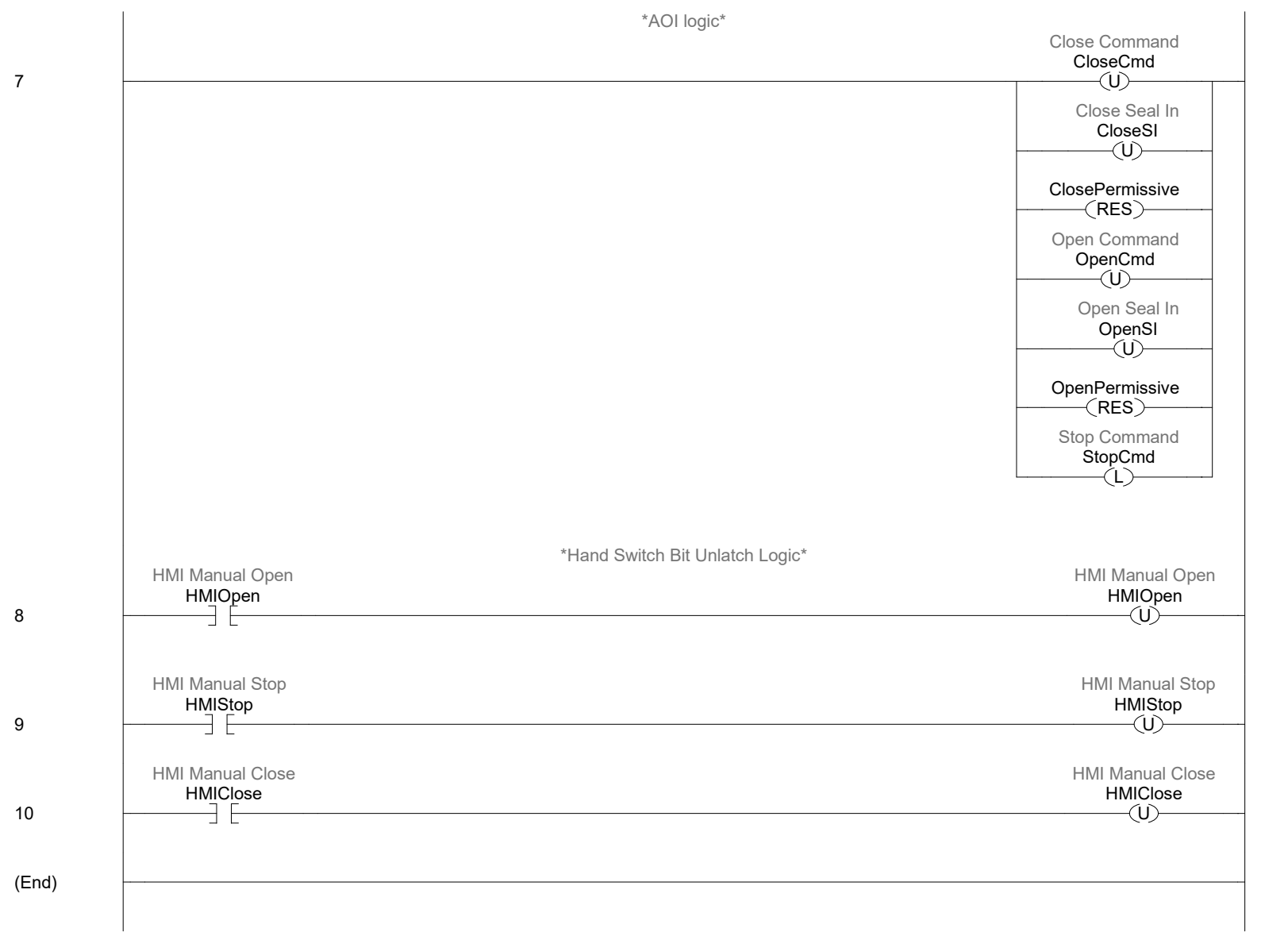


HMI Manual Close
HMIClose



(End)





RH v33.0 First Revision

SKM

Run Hours

Available Languages

Relay Ladder

RH	
Run Hours	
RH	? ... (Maint1Done)
TotalHours	? (Maint2Done)
TodaysHours	? (Maint3Done)
YesterdaysHours	?
LastStartDate	?
LastStartTime	?
LastStopDate	?
LastStopTime	?
TotalStarts	?
TodaysStarts	?
YesterdaysStarts	?
StartsPerHour	?

Function Block

RH	
Run Hours	
TotalHours	○
TodaysHours	○
YesterdaysHours	○
LastStartDate	○
LastStartTime	○
LastStopDate	○
LastStopTime	○
TotalStarts	○
TodaysStarts	○
YesterdaysStarts	○
StartsPerHour	○
Maint1Done	○
Maint2Done	○
Maint3Done	○

Structured Text

RH());

Parameters

Required	Name	Data Type	Usage	Description
X	RH	RH	InOut	Run Hours
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
	TotalHours	DINT	Output	Total ETM
	TodaysHours	DINT	Output	Today's ETM
	YesterdaysHours	DINT	Output	Yesterday's ETM
	LastStartDate	DINT	Output	Last Start Date

LastStartTime	DINT	Output	Last Start Time
LastStopDate	DINT	Output	Last Stop Date
LastStopTime	DINT	Output	Last Stop Time
TotalStarts	DINT	Output	Total Starts
TodayStarts	DINT	Output	Today's Starts
YesterdaysStarts	DINT	Output	Yesterday's Starts
StartsPerHour	DINT	Output	Calculated Number of Starts per Hour
HourSP	DINT	Input	Hour to Rollover (0 - 23)
MinuteSP	DINT	Input	Minute to Rollover (0 - 59)
HMIReset	BOOL	Input	
Maint1Hours	DINT	Output	Maintenance 1 Hours
Maint2Hours	DINT	Output	Maintenance 2 Hours
Maint3Hours	DINT	Output	Maintenance 3 Hours
Maint1Done	BOOL	Output	Maintenance 1 Due
Maint2Done	BOOL	Output	Maintenance 2 Due
Maint3Done	BOOL	Output	Maintenance 3 Due
Maint1SP	DINT	Input	Maintenance 1 Hours SP
Maint2SP	DINT	Input	Maintenance 2 Hours SP
Maint3SP	DINT	Input	Maintenance 3 Hours SP

Extended Description

-When enabled, calculates Run Hours and Last Start/Stop Dates/Times as well as Starts and Starts per Hour.

-Note that StartsPerHour is limited to 10.

-Hours are DINT's with 2 implied decimals.

-Dates and Times are DINTS formatted as follows:

Date=DDMMYYYY

Time=HHMMSS

-HourSP and MinuteSP are adjustable within block to rollover Today's to Yesterday's (default is midnight).

-HMIReset will reset TotalHours, Today'sHours, TotalStarts, and Today'sStarts.

-3 Separate Maintenance Hour Trackers are used for tracking Maintenance. Once the Hours Elapsed have surpassed the SP, the MaintXDone bit will be set, until accumulated value is set to 0 by operator.

Execution

Condition Description

EnableIn is false

EnableIn is true

Revision v33.0 First Revision Notes

.0 Implemented Control/Status Local tags to improve comms efficiency

Name	Default	Data Type	Scope
EnableIn	1	BOOL	RH
Enable Input - System Defined Parameter			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>EnableIn - RH/EnableInFalse - 1(XIC)</i>			
<i>EnableIn - RH/Logic - 1(XIC)</i>			
HMIReset	0	BOOL	RH
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>HMIReset - RH/EnableInFalse - *22(OTU), 22(XIC)</i>			
<i>HMIReset - RH/Logic - *27(OTU), 27(XIC)</i>			
HourSP	0	DINT	RH
Hour to Rollover (0 - 23)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>HourSP - RH/EnableInFalse - 1(MOV), 8(EQU)</i>			
<i>HourSP - RH/Logic - 1(MOV), 10(EQU)</i>			
LastStartDate	0	DINT	RH
Last Start Date			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>LastStartDate - RH/EnableInFalse - 1(MOV)</i>			
<i>LastStartDate - RH/Logic - *15(CPT), 1(MOV), 15(EQU)</i>			
LastStartTime	0	DINT	RH
Last Start Time			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>LastStartTime - RH/EnableInFalse - 1(MOV)</i>			
<i>LastStartTime - RH/Logic - *15(CPT), 1(MOV)</i>			
LastStopDate	0	DINT	RH
Last Stop Date			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>LastStopDate - RH/EnableInFalse - *21(CPT), 1(MOV), 21(EQU)</i>			
<i>LastStopDate - RH/Logic - 1(MOV)</i>			
LastStopTime	0	DINT	RH
Last Stop Time			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>LastStopTime - RH/EnableInFalse - *21(CPT), 1(MOV)</i>			
<i>LastStopTime - RH/Logic - 1(MOV)</i>			

Maint1Done	0	BOOL	RH
Maintenance 1 Due			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Maint1Done - RH/EnableInFalse - *9(OTE), 1(XIC)</i>			
<i>Maint1Done - RH/Logic - *14(OTE), 1(XIC)</i>			
Maint1Hours	0	DINT	RH
Maintenance 1 Hours			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Maint1Hours - RH/EnableInFalse - 1(MOV), 9(GEQ)</i>			
<i>Maint1Hours - RH/Logic - *13(CLR), *9(ADD), 1(MOV), 13(GRT), 14(GEQ), 9(ADD)</i>			
Maint1SP	50000	DINT	RH
Maintenance 1 Hours SP			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Maint1SP - RH/EnableInFalse - 1(MOV), 9(GEQ)</i>			
<i>Maint1SP - RH/Logic - 1(MOV), 14(GEQ)</i>			
Maint2Done	0	BOOL	RH
Maintenance 2 Due			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Maint2Done - RH/EnableInFalse - *9(OTE), 1(XIC)</i>			
<i>Maint2Done - RH/Logic - *14(OTE), 1(XIC)</i>			
Maint2Hours	0	DINT	RH
Maintenance 2 Hours			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Maint2Hours - RH/EnableInFalse - 1(MOV), 9(GEQ)</i>			
<i>Maint2Hours - RH/Logic - *13(CLR), *9(ADD), 1(MOV), 13(GRT), 14(GEQ), 9(ADD)</i>			
Maint2SP	50000	DINT	RH
Maintenance 2 Hours SP			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Maint2SP - RH/EnableInFalse - 1(MOV), 9(GEQ)</i>			
<i>Maint2SP - RH/Logic - 1(MOV), 14(GEQ)</i>			
Maint3Done	0	BOOL	RH
Maintenance 3 Due			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Maint3Done - RH/EnableInFalse - *9(OTE), 1(XIC)</i>			
<i>Maint3Done - RH/Logic - *14(OTE), 1(XIC)</i>			

Maint3Hours	0	DINT	RH
Maintenance 3 Hours			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Maint3Hours - RH/EnableInFalse - 1(MOV), 9(GEQ)</i>			
<i>Maint3Hours - RH/Logic - *13(CLR), *9(ADD), 1(MOV), 13(GRT), 14(GEQ), 9(ADD)</i>			
Maint3SP	50000	DINT	RH
Maintenance 3 Hours SP			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>Maint3SP - RH/EnableInFalse - 1(MOV), 9(GEQ)</i>			
<i>Maint3SP - RH/Logic - 1(MOV), 14(GEQ)</i>			
MinuteSP	0	DINT	RH
Minute to Rollover (0 - 59)			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>MinuteSP - RH/EnableInFalse - 1(MOV), 8(EQU)</i>			
<i>MinuteSP - RH/Logic - 1(MOV), 10(EQU)</i>			
StartsPerHour	0	DINT	RH
Calculated Number of Starts per Hour			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>StartsPerHour - RH/EnableInFalse - *20(SUB), 1(MOV), 10(GEQ), 11(GEQ), 12(GEQ), 13(GEQ), 14(GEQ), 15(GEQ), 16(GEQ), 17(GEQ), 18(GEQ), 19(GEQ), 20(SUB)</i>			
<i>StartsPerHour - RH/Logic - *15(ADD), *26(SUB), 1(MOV), 15(ADD), 15(LES), 16(GEQ), 17(GEQ), 18(GEQ), 19(GEQ), 20(GEQ), 21(GEQ), 22(GEQ), 23(GEQ), 24(GEQ), 25(GEQ), 26(SUB)</i>			
TodaysHours	0	DINT	RH
Today's ETM			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>TodaysHours - RH/EnableInFalse - *22(CLR), *3(MOV), *8(CLR), 1(MOV), 8(MOV)</i>			
<i>TodaysHours - RH/Logic - *10(CLR), *27(CLR), *3(MOV), *9(ADD), 1(MOV), 10(MOV), 9(ADD), 9(LES)</i>			
TodaysStarts	0	DINT	RH
Today's Starts			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>TodaysStarts - RH/EnableInFalse - *22(CLR), *5(MOV), *8(CLR), 1(MOV), 8(MOV)</i>			
<i>TodaysStarts - RH/Logic - *10(CLR), *15(ADD), *27(CLR), *5(MOV), 1(MOV), 10(MOV), 15(ADD)</i>			
TotalHours	0	DINT	RH
Total ETM			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>TotalHours - RH/EnableInFalse - *2(MOV), *22(CLR), 1(MOV)</i>			

Name	Default	Data Type	Scope
Clock		DINT[7]	RH
Clock			
Usage:	Local Tag		
External Access:	Read/Write		
Clock[0]	0	DINT	
Year			
<i>Clock[0] - RH/EnableInFalse - *7(GSV), 21(CPT)</i>			
<i>Clock[0] - RH/Logic - *7(GSV), 15(CPT)</i>			
Clock[1]	0	DINT	
Month (1 - 12)			
<i>Clock[1] - RH/EnableInFalse - 21(CPT)</i>			
<i>Clock[1] - RH/Logic - 15(CPT)</i>			
Clock[2]	0	DINT	
Day (1 - 31)			
<i>Clock[2] - RH/EnableInFalse - 21(CPT)</i>			
<i>Clock[2] - RH/Logic - 15(CPT)</i>			
Clock[3]	0	DINT	
Hour (0 - 23)			
<i>Clock[3] - RH/EnableInFalse - 21(CPT), 8(EQU)</i>			
<i>Clock[3] - RH/Logic - 10(EQU), 15(CPT)</i>			
Clock[4]	0	DINT	
Minute (0 - 59)			
<i>Clock[4] - RH/EnableInFalse - 21(CPT), 8(EQU)</i>			
<i>Clock[4] - RH/Logic - 10(EQU), 15(CPT)</i>			
Clock[5]	0	DINT	
Second (0 - 59)			
<i>Clock[5] - RH/EnableInFalse - 21(CPT)</i>			
<i>Clock[5] - RH/Logic - 15(CPT), 28(MOV), 8(NEQ)</i>			
Clock[6]	0	DINT	
Microseconds (0 - 999,999)			
Control		RH_Control	RH
Usage:	Local Tag		
External Access:	Read/Write		
Control.TotalHours	0	DINT	
<i>Control.TotalHours - RH/EnableInFalse - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
<i>Control.TotalHours - RH/Logic - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
Control.TodaysHours	0	DINT	
<i>Control.TodaysHours - RH/EnableInFalse - *0(MOV), *3(MOV), 3(MOV), 3(NEQ)</i>			
<i>Control.TodaysHours - RH/Logic - *0(MOV), *3(MOV), 3(MOV), 3(NEQ)</i>			
Control.TotalStarts	0	DINT	
<i>Control.TotalStarts - RH/EnableInFalse - *0(MOV), *4(MOV), 4(MOV), 4(NEQ)</i>			
<i>Control.TotalStarts - RH/Logic - *0(MOV), *4(MOV), 4(MOV), 4(NEQ)</i>			
Control.TodaysStarts	0	DINT	
<i>Control.TodaysStarts - RH/EnableInFalse - *0(MOV), *5(MOV), 5(MOV), 5(NEQ)</i>			
<i>Control.TodaysStarts - RH/Logic - *0(MOV), *5(MOV), 5(MOV), 5(NEQ)</i>			
FS_ONS	0	BOOL	RH
Usage:	Local Tag		
External Access:	None		
<i>FS_ONS - RH/EnableInFalse - *0(ONS)</i>			
<i>FS_ONS - RH/Logic - *0(ONS)</i>			
HoursOS	0	BOOL	RH
Usage:	Local Tag		
External Access:	Read/Write		
<i>HoursOS - RH/EnableInFalse - *0(OTU), *8(ONS)</i>			
<i>HoursOS - RH/Logic - *0(OTU), *10(ONS)</i>			
LastStartOS	0	BOOL	RH
Usage:	Local Tag		
External Access:	Read/Write		

LastStartOS (Continued)

*LastStartOS - RH/EnableInFalse - *6(OTU)*
*LastStartOS - RH/Logic - *15(ONS)*

LastStopOS 0 BOOL RH

Usage: Local Tag
 External Access: Read/Write
*LastStopOS - RH/EnableInFalse - *0(OTU), *21(ONS)*
*LastStopOS - RH/Logic - *0(OTU), *6(OTU)*

RTO 0 DINT RH

Run Hour Timer (0.01 Hours)
 Usage: Local Tag
 External Access: Read/Write
*RTO - RH/EnableInFalse - *22(CLR)*
*RTO - RH/Logic - *11(CLR), *27(CLR), *8(ADD), *9(CLR), 8(ADD), 9(GEQ)*

SecondOS 0 BOOL RH

Usage: Local Tag
 External Access: None
*SecondOS - RH/EnableInFalse - *0(OTU)*
*SecondOS - RH/Logic - *0(OTU), *8(ONS)*

Seconds 0 DINT RH

Usage: Local Tag
 External Access: None
*Seconds - RH/Logic - *28(MOV), 8(NEQ)*

StartsTMR TIMER[10] RH

Timers for calculating starts per hour
 Usage: Local Tag
 External Access: Read/Write

StartsTMR[0] TIMER

Timers for calculating starts per hour
*StartsTMR[0] - RH/EnableInFalse - *10(TON)*
*StartsTMR[0] - RH/Logic - *16(TON)*

StartsTMR[0].PRE 3600000 DINT

Timers for calculating starts per hour

StartsTMR[0].ACC 0 DINT

Timers for calculating starts per hour
*StartsTMR[0].ACC - RH/Logic - *15(MOV), 15(MOV)*

StartsTMR[0].EN 0 BOOL

Timers for calculating starts per hour

StartsTMR[0].TT 0 BOOL

Timers for calculating starts per hour

StartsTMR[0].DN 0 BOOL

Timers for calculating starts per hour
StartsTMR[0].DN - RH/EnableInFalse - 20(XIC)
StartsTMR[0].DN - RH/Logic - 26(XIC)

StartsTMR[1] TIMER

Timers for calculating starts per hour
*StartsTMR[1] - RH/EnableInFalse - *11(TON)*
*StartsTMR[1] - RH/Logic - *17(TON)*

StartsTMR[1].PRE 3600000 DINT

Timers for calculating starts per hour

StartsTMR[1].ACC 0 DINT

Timers for calculating starts per hour
*StartsTMR[1].ACC - RH/Logic - *15(MOV), 15(MOV)*

StartsTMR[1].EN 0 BOOL

Timers for calculating starts per hour

StartsTMR[1].TT 0 BOOL

Timers for calculating starts per hour

StartsTMR[1].DN 0 BOOL

StartsTMR (Continued)

Timers for calculating starts per hour	
<i>StartsTMR[1].DN - RH/EnableInFalse - 20(XIC)</i>	
<i>StartsTMR[1].DN - RH/Logic - 26(XIC)</i>	
StartsTMR[2]	TIMER
Timers for calculating starts per hour	
<i>StartsTMR[2] - RH/EnableInFalse - *12(TON)</i>	
<i>StartsTMR[2] - RH/Logic - *18(TON)</i>	
StartsTMR[2].PRE 3600000	DINT
Timers for calculating starts per hour	
StartsTMR[2].ACC 0	DINT
Timers for calculating starts per hour	
<i>StartsTMR[2].ACC - RH/Logic - *15(MOV), 15(MOV)</i>	
StartsTMR[2].EN 0	BOOL
Timers for calculating starts per hour	
StartsTMR[2].TT 0	BOOL
Timers for calculating starts per hour	
StartsTMR[2].DN 0	BOOL
Timers for calculating starts per hour	
<i>StartsTMR[2].DN - RH/EnableInFalse - 20(XIC)</i>	
<i>StartsTMR[2].DN - RH/Logic - 26(XIC)</i>	
StartsTMR[3]	TIMER
Timers for calculating starts per hour	
<i>StartsTMR[3] - RH/EnableInFalse - *13(TON)</i>	
<i>StartsTMR[3] - RH/Logic - *19(TON)</i>	
StartsTMR[3].PRE 3600000	DINT
Timers for calculating starts per hour	
StartsTMR[3].ACC 0	DINT
Timers for calculating starts per hour	
<i>StartsTMR[3].ACC - RH/Logic - *15(MOV), 15(MOV)</i>	
StartsTMR[3].EN 0	BOOL
Timers for calculating starts per hour	
StartsTMR[3].TT 0	BOOL
Timers for calculating starts per hour	
StartsTMR[3].DN 0	BOOL
Timers for calculating starts per hour	
<i>StartsTMR[3].DN - RH/EnableInFalse - 20(XIC)</i>	
<i>StartsTMR[3].DN - RH/Logic - 26(XIC)</i>	
StartsTMR[4]	TIMER
Timers for calculating starts per hour	
<i>StartsTMR[4] - RH/EnableInFalse - *14(TON)</i>	
<i>StartsTMR[4] - RH/Logic - *20(TON)</i>	
StartsTMR[4].PRE 3600000	DINT
Timers for calculating starts per hour	
StartsTMR[4].ACC 0	DINT
Timers for calculating starts per hour	
<i>StartsTMR[4].ACC - RH/Logic - *15(MOV), 15(MOV)</i>	
StartsTMR[4].EN 0	BOOL
Timers for calculating starts per hour	
StartsTMR[4].TT 0	BOOL
Timers for calculating starts per hour	
StartsTMR[4].DN 0	BOOL
Timers for calculating starts per hour	
<i>StartsTMR[4].DN - RH/EnableInFalse - 20(XIC)</i>	
<i>StartsTMR[4].DN - RH/Logic - 26(XIC)</i>	
StartsTMR[5]	TIMER
Timers for calculating starts per hour	
<i>StartsTMR[5] - RH/EnableInFalse - *15(TON)</i>	
<i>StartsTMR[5] - RH/Logic - *21(TON)</i>	
StartsTMR[5].PRE 3600000	DINT
Timers for calculating starts per hour	
StartsTMR[5].ACC 0	DINT
Timers for calculating starts per hour	

StartsTMR (Continued)

<i>StartsTMR[5].ACC - RH/Logic - *15(MOV), 15(MOV)</i>		
StartsTMR[5].EN	0	BOOL
Timers for calculating starts per hour		
StartsTMR[5].TT	0	BOOL
Timers for calculating starts per hour		
StartsTMR[5].DN	0	BOOL
Timers for calculating starts per hour		
<i>StartsTMR[5].DN - RH/EnableInFalse - 20(XIC)</i>		
<i>StartsTMR[5].DN - RH/Logic - 26(XIC)</i>		
StartsTMR[6]		TIMER
Timers for calculating starts per hour		
<i>StartsTMR[6] - RH/EnableInFalse - *16(TON)</i>		
<i>StartsTMR[6] - RH/Logic - *22(TON)</i>		
StartsTMR[6].PRE	3600000	DINT
Timers for calculating starts per hour		
StartsTMR[6].ACC	0	DINT
Timers for calculating starts per hour		
<i>StartsTMR[6].ACC - RH/Logic - *15(MOV), 15(MOV)</i>		
StartsTMR[6].EN	0	BOOL
Timers for calculating starts per hour		
StartsTMR[6].TT	0	BOOL
Timers for calculating starts per hour		
StartsTMR[6].DN	0	BOOL
Timers for calculating starts per hour		
<i>StartsTMR[6].DN - RH/EnableInFalse - 20(XIC)</i>		
<i>StartsTMR[6].DN - RH/Logic - 26(XIC)</i>		
StartsTMR[7]		TIMER
Timers for calculating starts per hour		
<i>StartsTMR[7] - RH/EnableInFalse - *17(TON)</i>		
<i>StartsTMR[7] - RH/Logic - *23(TON)</i>		
StartsTMR[7].PRE	3600000	DINT
Timers for calculating starts per hour		
StartsTMR[7].ACC	0	DINT
Timers for calculating starts per hour		
<i>StartsTMR[7].ACC - RH/Logic - *15(MOV), 15(MOV)</i>		
StartsTMR[7].EN	0	BOOL
Timers for calculating starts per hour		
StartsTMR[7].TT	0	BOOL
Timers for calculating starts per hour		
StartsTMR[7].DN	0	BOOL
Timers for calculating starts per hour		
<i>StartsTMR[7].DN - RH/EnableInFalse - 20(XIC)</i>		
<i>StartsTMR[7].DN - RH/Logic - 26(XIC)</i>		
StartsTMR[8]		TIMER
Timers for calculating starts per hour		
<i>StartsTMR[8] - RH/EnableInFalse - *18(TON)</i>		
<i>StartsTMR[8] - RH/Logic - *24(TON)</i>		
StartsTMR[8].PRE	3600000	DINT
Timers for calculating starts per hour		
StartsTMR[8].ACC	0	DINT
Timers for calculating starts per hour		
<i>StartsTMR[8].ACC - RH/Logic - *15(MOV), 15(MOV)</i>		
StartsTMR[8].EN	0	BOOL
Timers for calculating starts per hour		
StartsTMR[8].TT	0	BOOL
Timers for calculating starts per hour		
StartsTMR[8].DN	0	BOOL
Timers for calculating starts per hour		
<i>StartsTMR[8].DN - RH/EnableInFalse - 20(XIC)</i>		
<i>StartsTMR[8].DN - RH/Logic - 26(XIC)</i>		
StartsTMR[9]		TIMER
Timers for calculating starts per hour		

StartsTMR (Continued)

*StartsTMR[9] - RH/EnableInFalse - *19(TON)*
*StartsTMR[9] - RH/Logic - *25(TON)*

StartsTMR[9].PRE 3600000 DINT

Timers for calculating starts per hour

StartsTMR[9].ACC 0 DINT

Timers for calculating starts per hour

*StartsTMR[9].ACC - RH/Logic - *15(MOV)*

StartsTMR[9].EN 0 BOOL

Timers for calculating starts per hour

StartsTMR[9].TT 0 BOOL

Timers for calculating starts per hour

StartsTMR[9].DN 0 BOOL

Timers for calculating starts per hour

StartsTMR[9].DN - RH/EnableInFalse - 20(XIC)

StartsTMR[9].DN - RH/Logic - 26(XIC)

Status RH_Status RH

Usage: Local Tag

External Access: Read Only

Status.EnableIn 0 BOOL

*Status.EnableIn - RH/EnableInFalse - *1(OTE)*

*Status.EnableIn - RH/Logic - *1(OTE)*

Status.TotalHours 0 DINT

*Status.TotalHours - RH/EnableInFalse - *1(MOV)*

*Status.TotalHours - RH/Logic - *1(MOV)*

Status.TodaysHours 0 DINT

*Status.TodaysHours - RH/EnableInFalse - *1(MOV)*

*Status.TodaysHours - RH/Logic - *1(MOV)*

Status.YesterdaysHours 0 DINT

*Status.YesterdaysHours - RH/EnableInFalse - *1(MOV)*

*Status.YesterdaysHours - RH/Logic - *1(MOV)*

Status.LastStartDate 0 DINT

*Status.LastStartDate - RH/EnableInFalse - *1(MOV)*

*Status.LastStartDate - RH/Logic - *1(MOV)*

Status.LastStartTime 0 DINT

*Status.LastStartTime - RH/EnableInFalse - *1(MOV)*

*Status.LastStartTime - RH/Logic - *1(MOV)*

Status.LastStopDate 0 DINT

*Status.LastStopDate - RH/EnableInFalse - *1(MOV)*

*Status.LastStopDate - RH/Logic - *1(MOV)*

Status.LastStopTime 0 DINT

*Status.LastStopTime - RH/EnableInFalse - *1(MOV)*

*Status.LastStopTime - RH/Logic - *1(MOV)*

Status.TotalStarts 0 DINT

*Status.TotalStarts - RH/EnableInFalse - *1(MOV)*

*Status.TotalStarts - RH/Logic - *1(MOV)*

Status.TodaysStarts 0 DINT

*Status.TodaysStarts - RH/EnableInFalse - *1(MOV)*

*Status.TodaysStarts - RH/Logic - *1(MOV)*

Status.YesterdaysStarts 0 DINT

*Status.YesterdaysStarts - RH/EnableInFalse - *1(MOV)*

*Status.YesterdaysStarts - RH/Logic - *1(MOV)*

Status.StartsPerHour 0 DINT

*Status.StartsPerHour - RH/EnableInFalse - *1(MOV)*

*Status.StartsPerHour - RH/Logic - *1(MOV)*

Status.HourSP 0 DINT

*Status.HourSP - RH/EnableInFalse - *1(MOV)*

*Status.HourSP - RH/Logic - *1(MOV)*

Status.MinuteSP 0 DINT

*Status.MinuteSP - RH/EnableInFalse - *1(MOV)*

*Status.MinuteSP - RH/Logic - *1(MOV)*

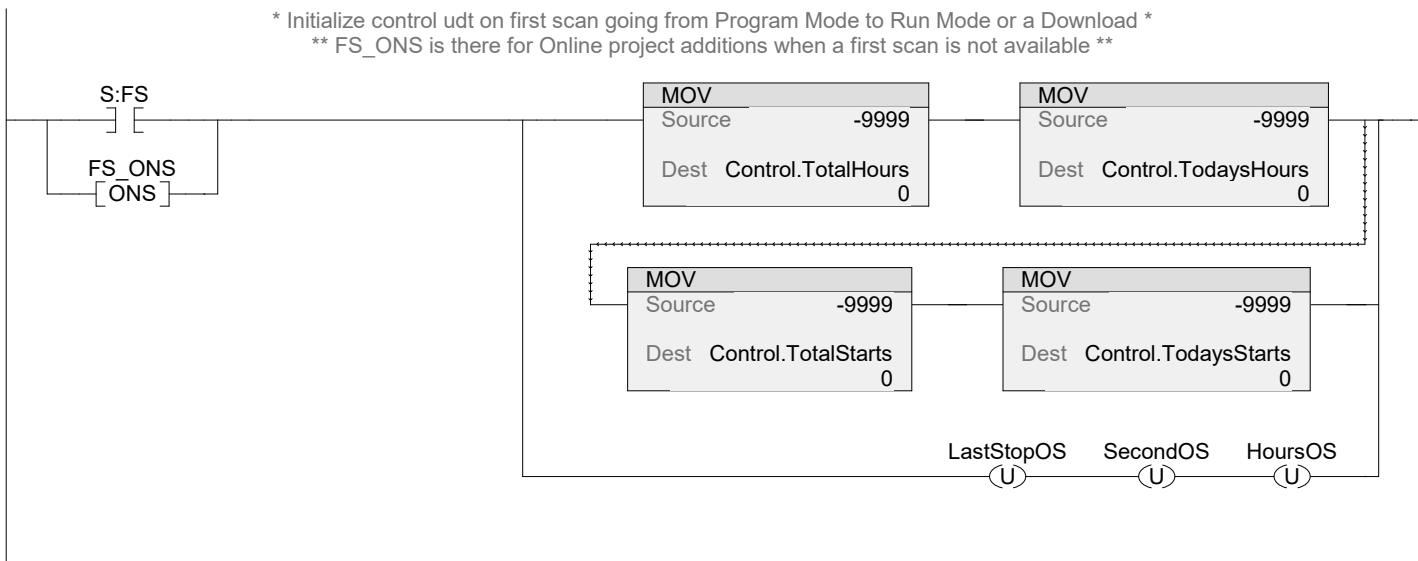
Status.Maint1Hours 0 DINT

Status (Continued)

<i>Status.Maint1Hours - RH/EnableInFalse - *1(MOV)</i>	
<i>Status.Maint1Hours - RH/Logic - *1(MOV)</i>	
Status.Maint2Hours	0 DINT
<i>Status.Maint2Hours - RH/EnableInFalse - *1(MOV)</i>	
<i>Status.Maint2Hours - RH/Logic - *1(MOV)</i>	
Status.Maint3Hours	0 DINT
<i>Status.Maint3Hours - RH/EnableInFalse - *1(MOV)</i>	
<i>Status.Maint3Hours - RH/Logic - *1(MOV)</i>	
Status.Maint1SP	0 DINT
<i>Status.Maint1SP - RH/EnableInFalse - *1(MOV)</i>	
<i>Status.Maint1SP - RH/Logic - *1(MOV)</i>	
Status.Maint2SP	0 DINT
<i>Status.Maint2SP - RH/EnableInFalse - *1(MOV)</i>	
<i>Status.Maint2SP - RH/Logic - *1(MOV)</i>	
Status.Maint3SP	0 DINT
<i>Status.Maint3SP - RH/EnableInFalse - *1(MOV)</i>	
<i>Status.Maint3SP - RH/Logic - *1(MOV)</i>	
Status.Maint1Done	0 BOOL
<i>Status.Maint1Done - RH/EnableInFalse - *1(OTE)</i>	
<i>Status.Maint1Done - RH/Logic - *1(OTE)</i>	
Status.Maint2Done	0 BOOL
<i>Status.Maint2Done - RH/EnableInFalse - *1(OTE)</i>	
<i>Status.Maint2Done - RH/Logic - *1(OTE)</i>	
Status.Maint3Done	0 BOOL
<i>Status.Maint3Done - RH/EnableInFalse - *1(OTE)</i>	
<i>Status.Maint3Done - RH/Logic - *1(OTE)</i>	

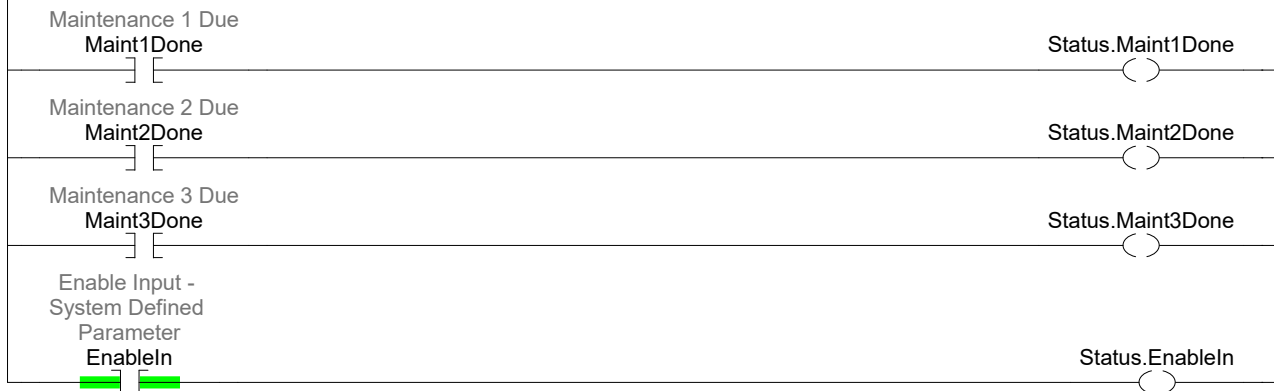
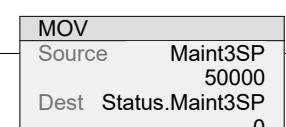
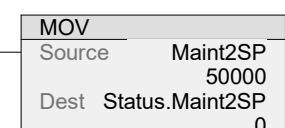
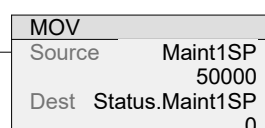
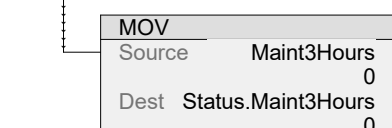
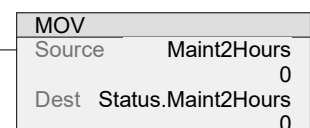
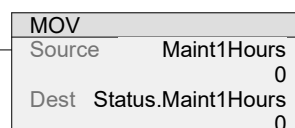
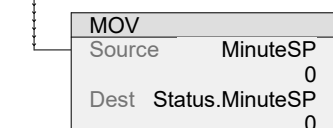
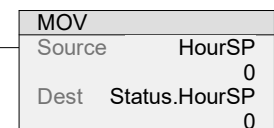
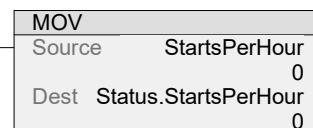
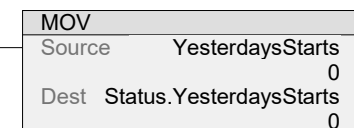
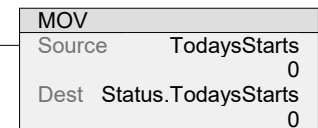
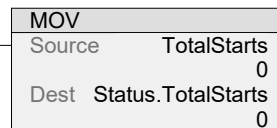
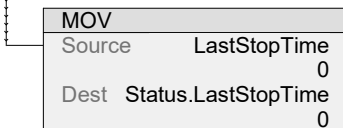
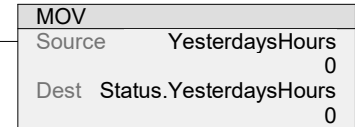
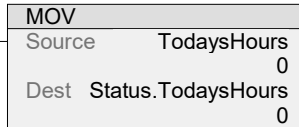
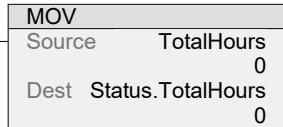
* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *
** FS_ONS is there for Online project additions when a first scan is not available **

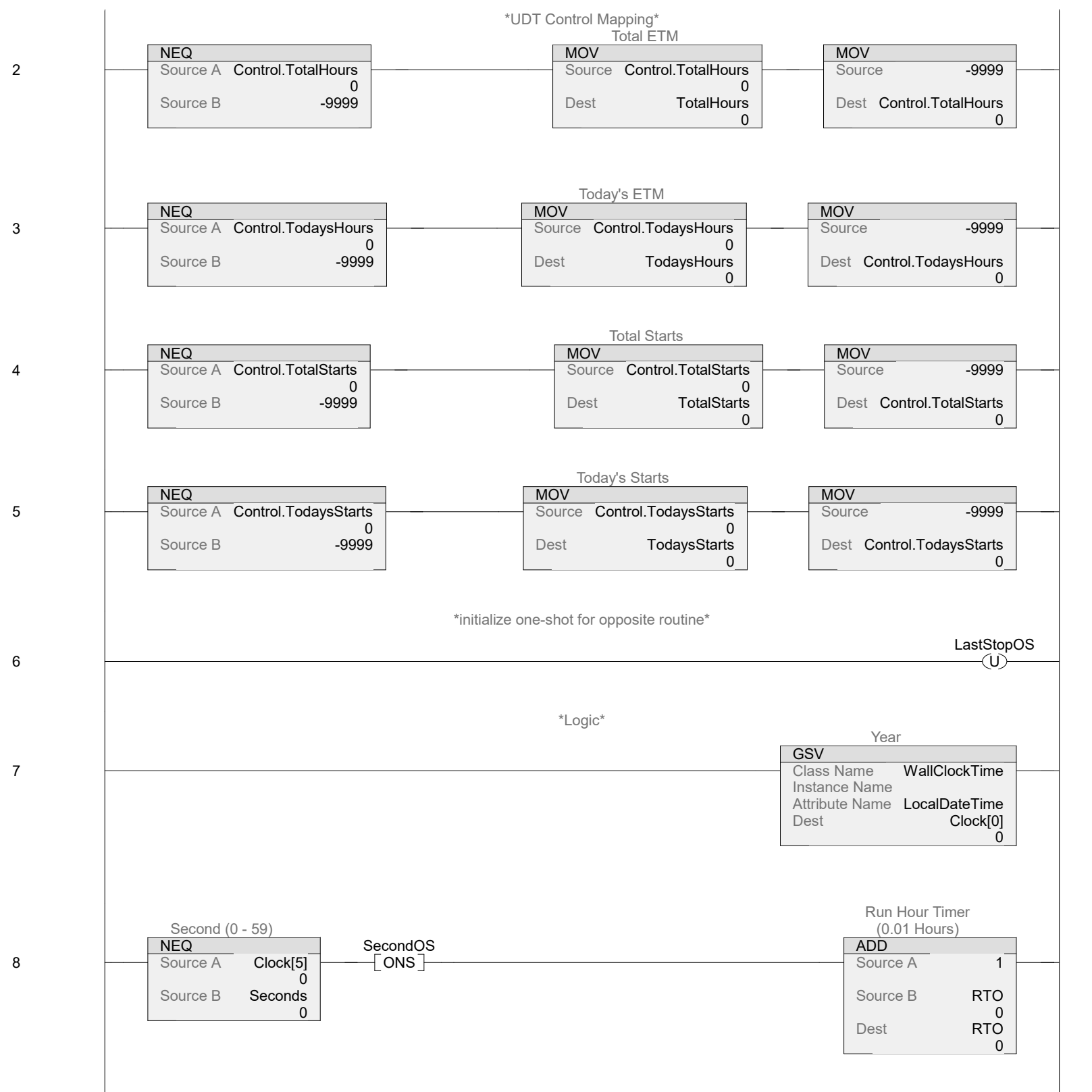
0

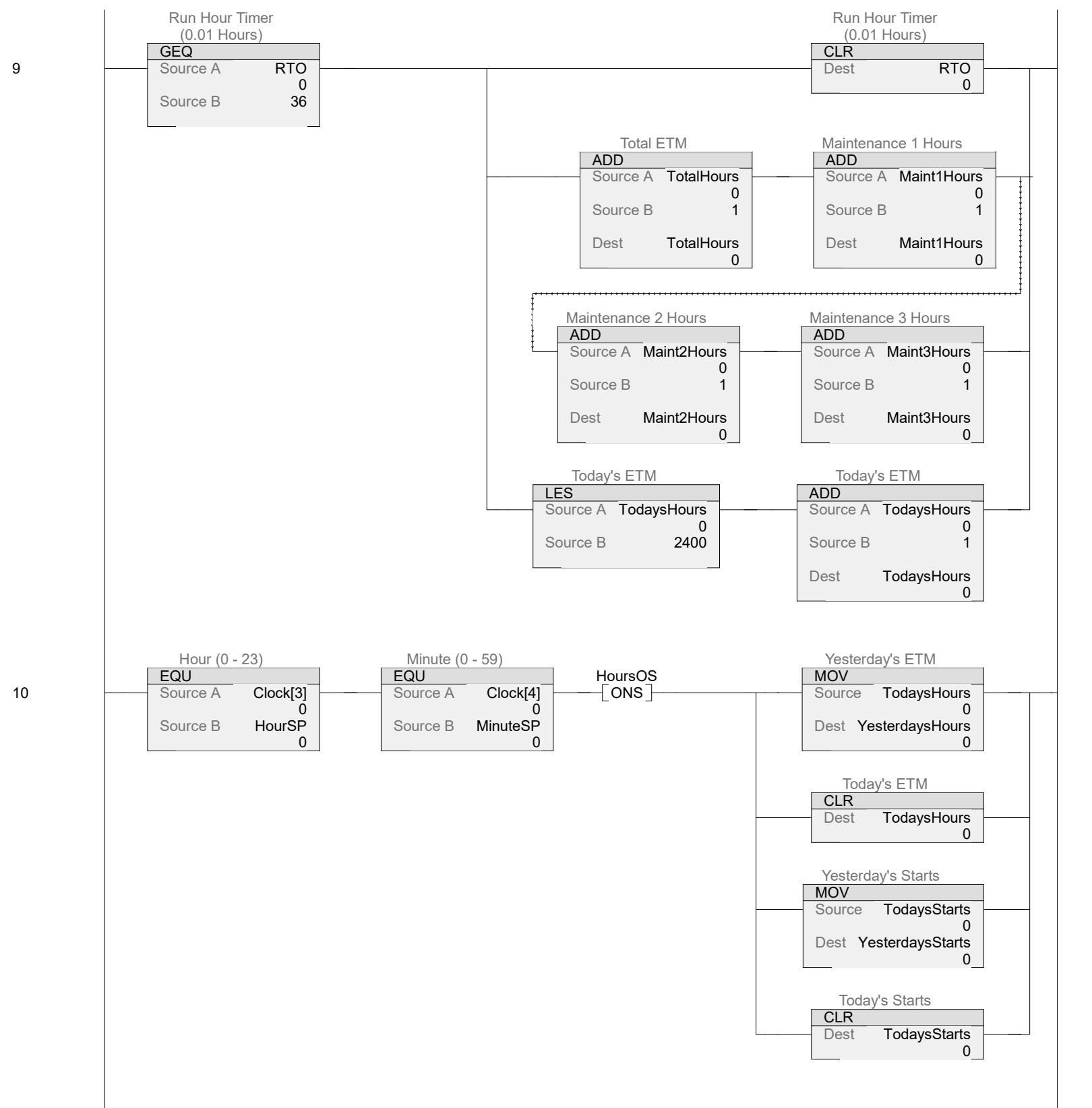


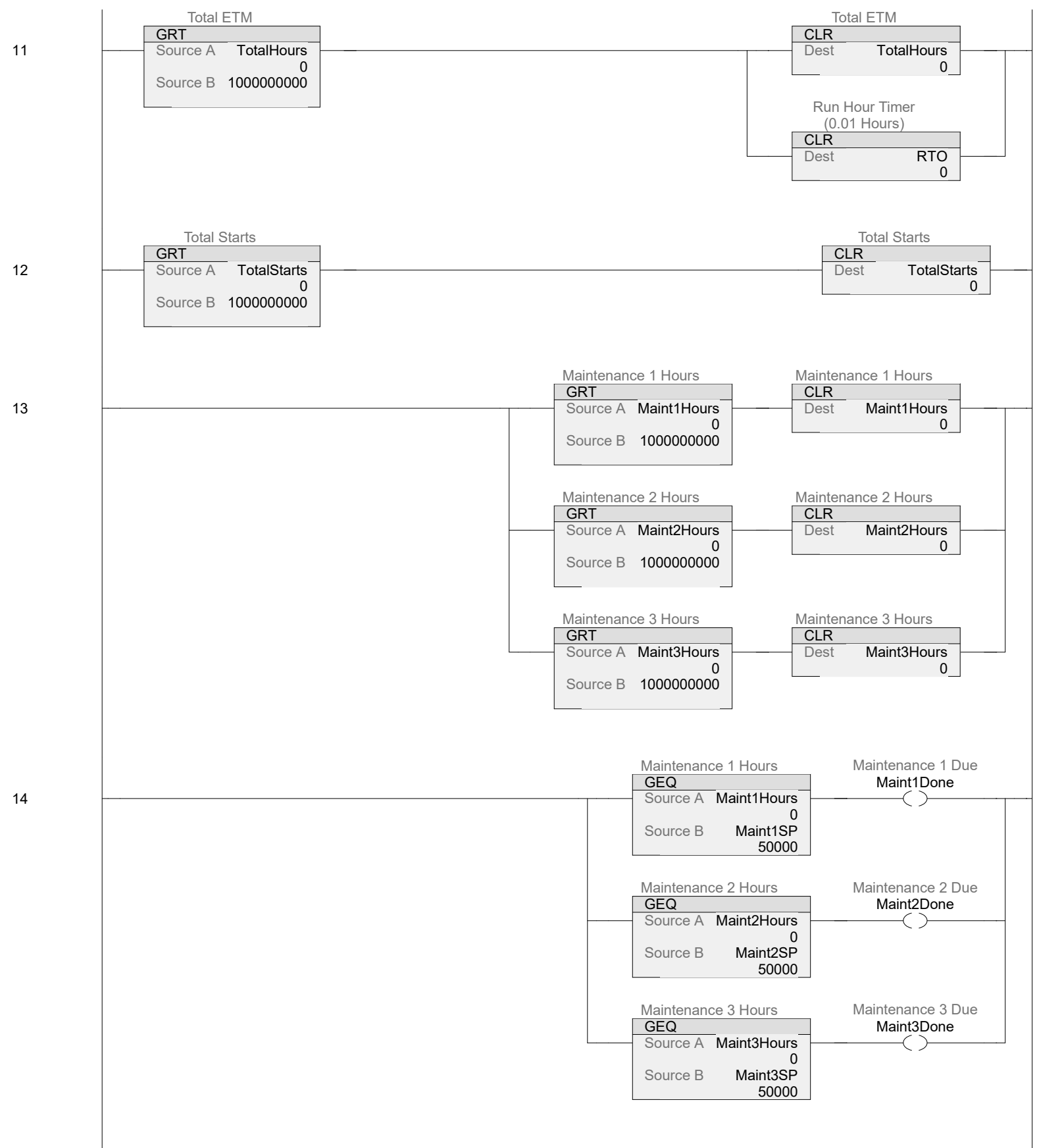
UDT Status Mapping

1









15

LastStartOS S:FS
 [ONS]]/[E
 Last Start Date
EQU
 Source A LastStartDate 0
 Source B 0

Last Start Date
CPT
 Dest LastStartDate 0
 Expression Clock[1]*1000000+(Clock[2]*10000)+Clock[0]

Last Start Time
CPT
 Dest LastStartTime 0
 Expression Clock[3]*10000+(Clock[4]*100)+Clock[5]

Total Starts
ADD
 Source A 1
 Source B TotalStarts 0
 Dest TotalStarts 0

Today's Starts
ADD
 Source A 1
 Source B TodaysStarts 0
 Dest TodaysStarts 0

Calculated Number of Starts per Hour
LES
 Source A StartsPerHour 0
 Source B 10

Calculated Number of Starts per Hour
ADD
 Source A 1
 Source B StartsPerHour 0
 Dest StartsPerHour 0

Timers for calculating starts per hour
MOV
 Source StartsTMR[8].ACC 0
 Dest StartsTMR[9].ACC 0

Timers for calculating starts per hour
MOV
 Source StartsTMR[7].ACC 0
 Dest StartsTMR[8].ACC 0

Timers for calculating starts per hour
MOV
 Source StartsTMR[6].ACC 0
 Dest StartsTMR[7].ACC 0

Timers for calculating starts per hour
MOV
 Source StartsTMR[5].ACC 0

16

Calculated Number of Starts per Hour

GEQ	
Source A	StartsPerHour
	0
Source B	1

Dest	StartsTMR[6].ACC
	0

Timers for calculating starts per hour

MOV	
Source	StartsTMR[4].ACC
	0
Dest	StartsTMR[5].ACC
	0

Timers for calculating starts per hour

MOV	
Source	StartsTMR[3].ACC
	0
Dest	StartsTMR[4].ACC
	0

Timers for calculating starts per hour

MOV	
Source	StartsTMR[2].ACC
	0
Dest	StartsTMR[3].ACC
	0

Timers for calculating starts per hour

MOV	
Source	StartsTMR[1].ACC
	0
Dest	StartsTMR[2].ACC
	0

Timers for calculating starts per hour

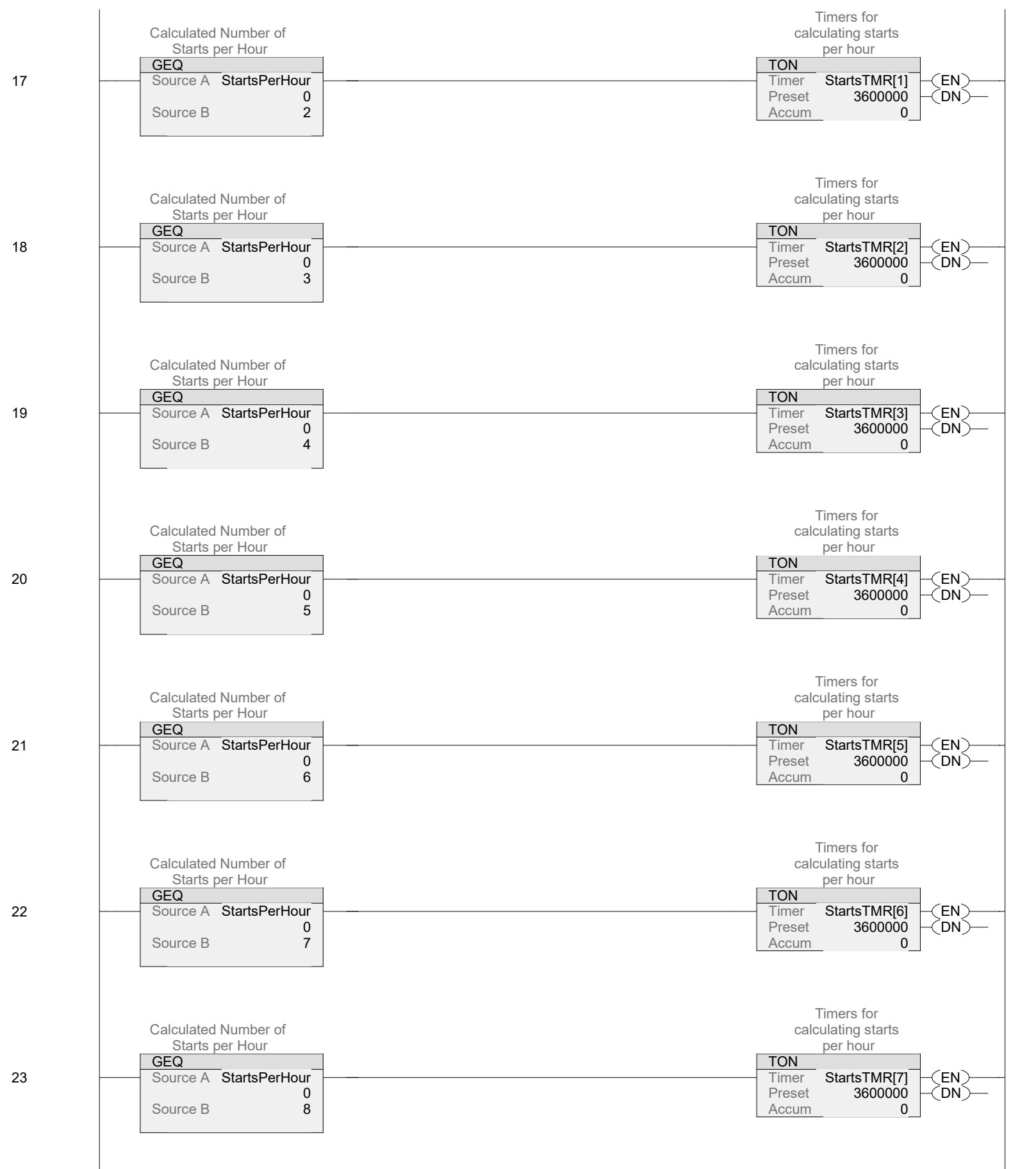
MOV	
Source	StartsTMR[0].ACC
	0
Dest	StartsTMR[1].ACC
	0

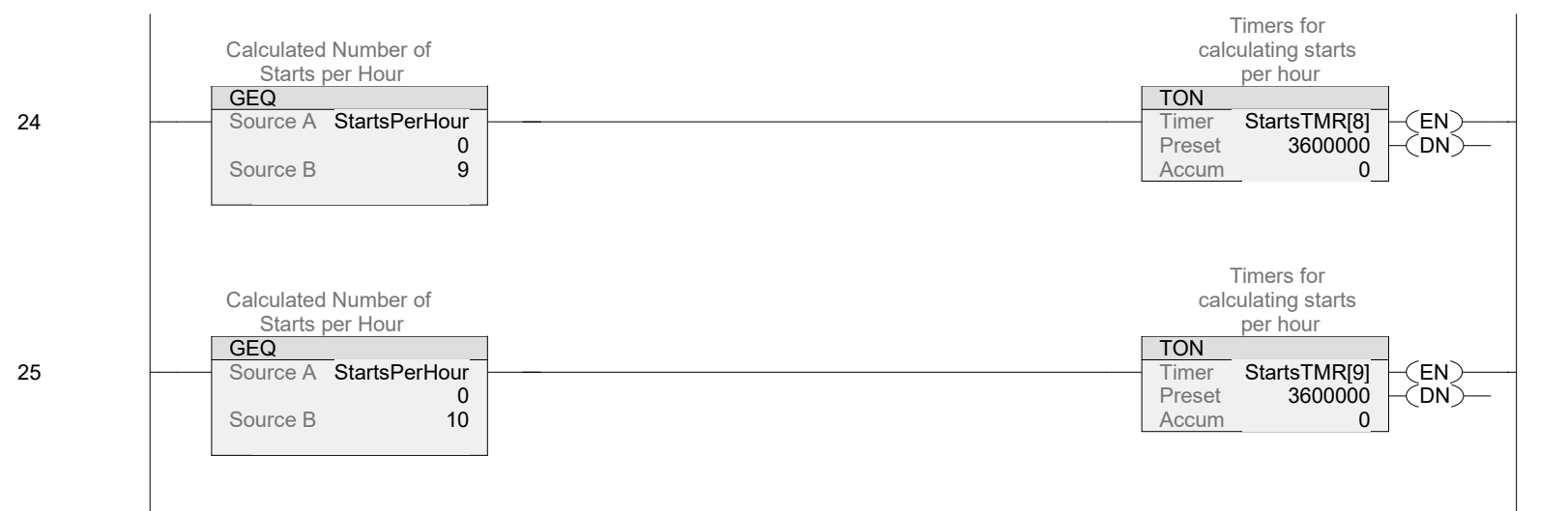
Timers for calculating starts per hour

MOV	
Source	0
Dest	StartsTMR[0].ACC
	0

Timers for calculating starts per hour

TON	
Timer	StartsTMR[0]
Preset	3600000
Accum	0
((EN))	
((DN))	





26

Timers for calculating starts per hour
StartsTMR[0].DN

Timers for calculating starts per hour
StartsTMR[1].DN

Timers for calculating starts per hour
StartsTMR[2].DN

Timers for calculating starts per hour
StartsTMR[3].DN

Timers for calculating starts per hour
StartsTMR[4].DN

Timers for calculating starts per hour
StartsTMR[5].DN

Timers for calculating starts per hour
StartsTMR[6].DN

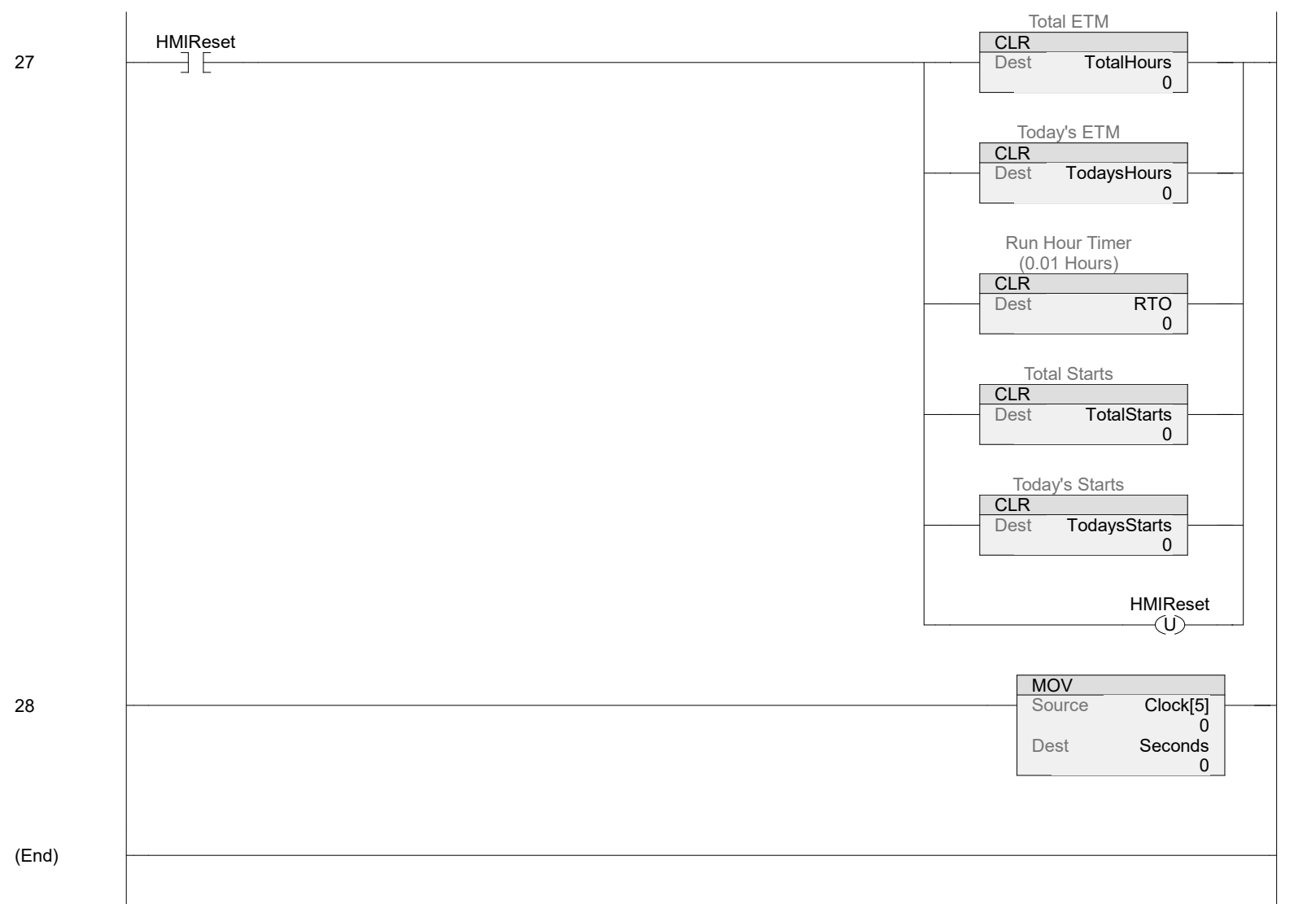
Timers for calculating starts per hour
StartsTMR[7].DN

Timers for calculating starts per hour
StartsTMR[8].DN

Timers for calculating starts per hour
StartsTMR[9].DN

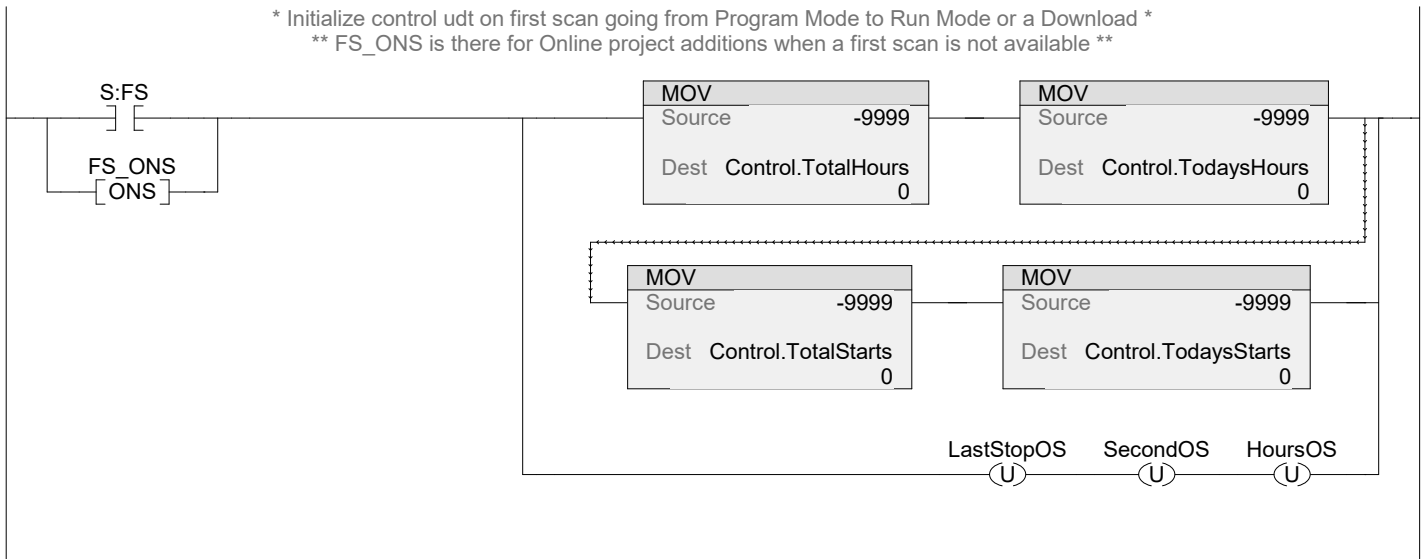
Calculated Number of Starts per Hour

SUB	
Source A	StartsPerHour
	0
Source B	StartsPerHour
	1
Dest	StartsPerHour
	0

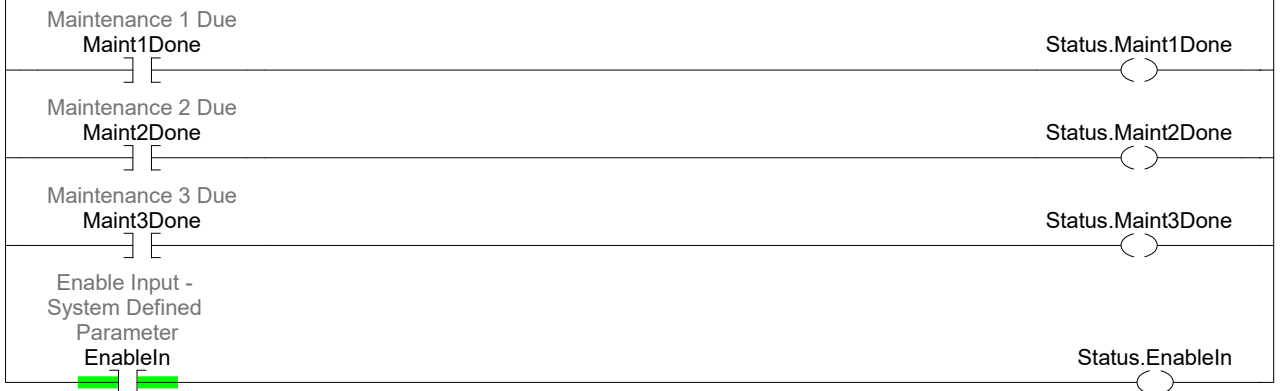
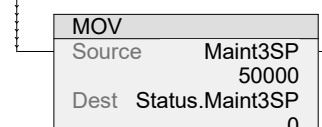
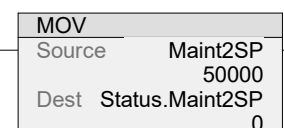
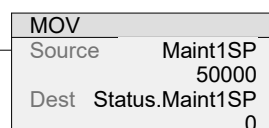
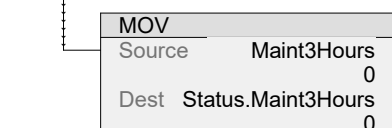
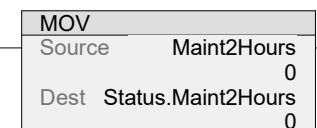
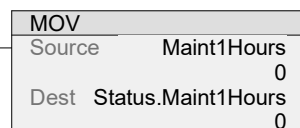
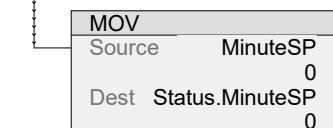
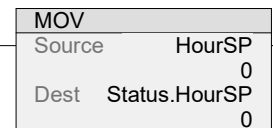
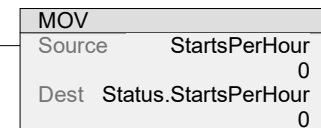
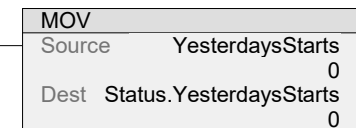
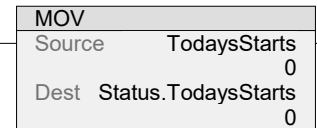
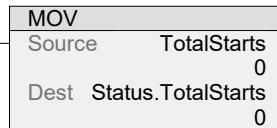
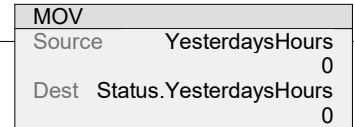
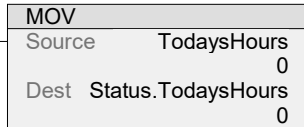
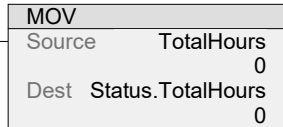


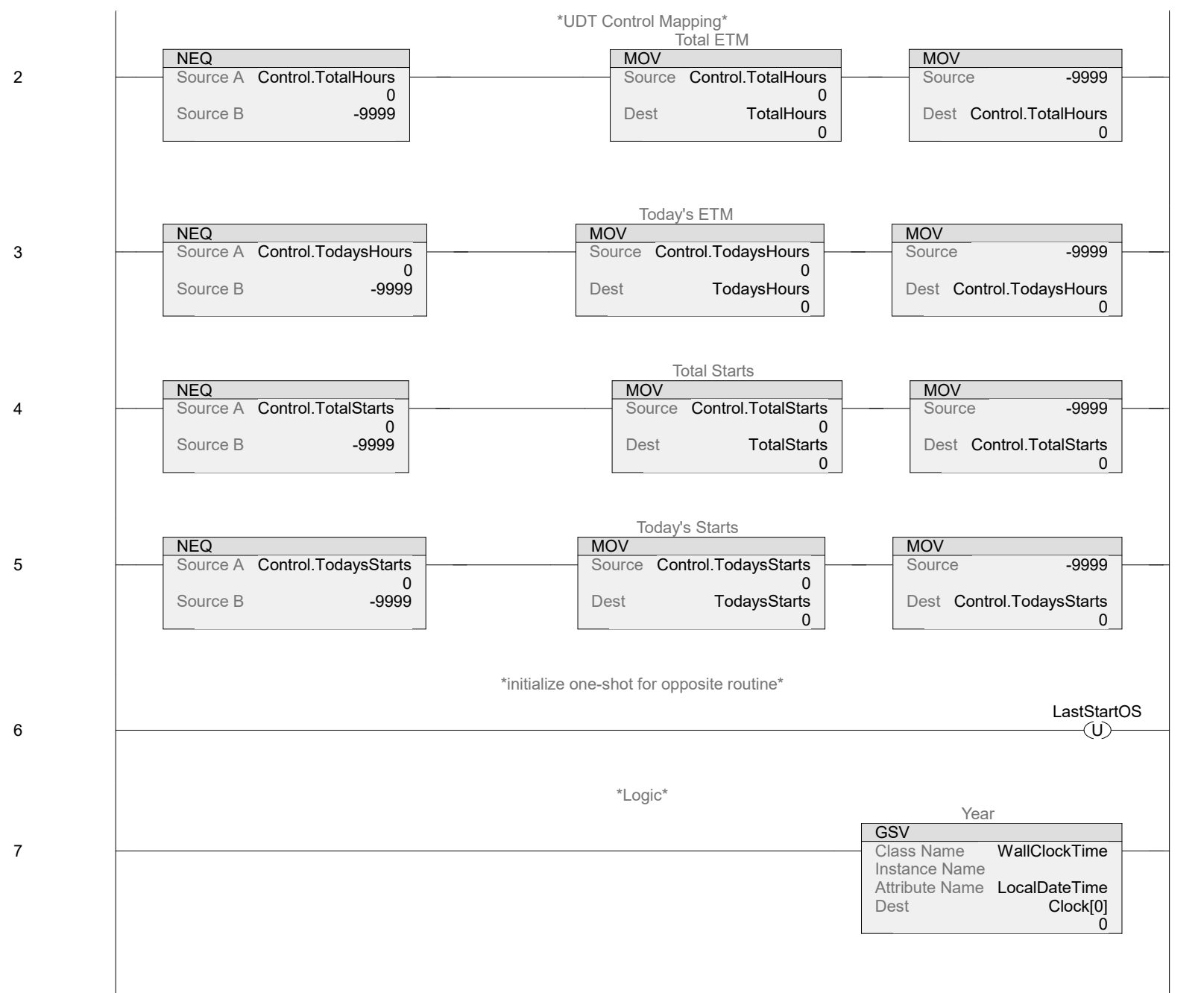
* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *
** FS_ONS is there for Online project additions when a first scan is not available **

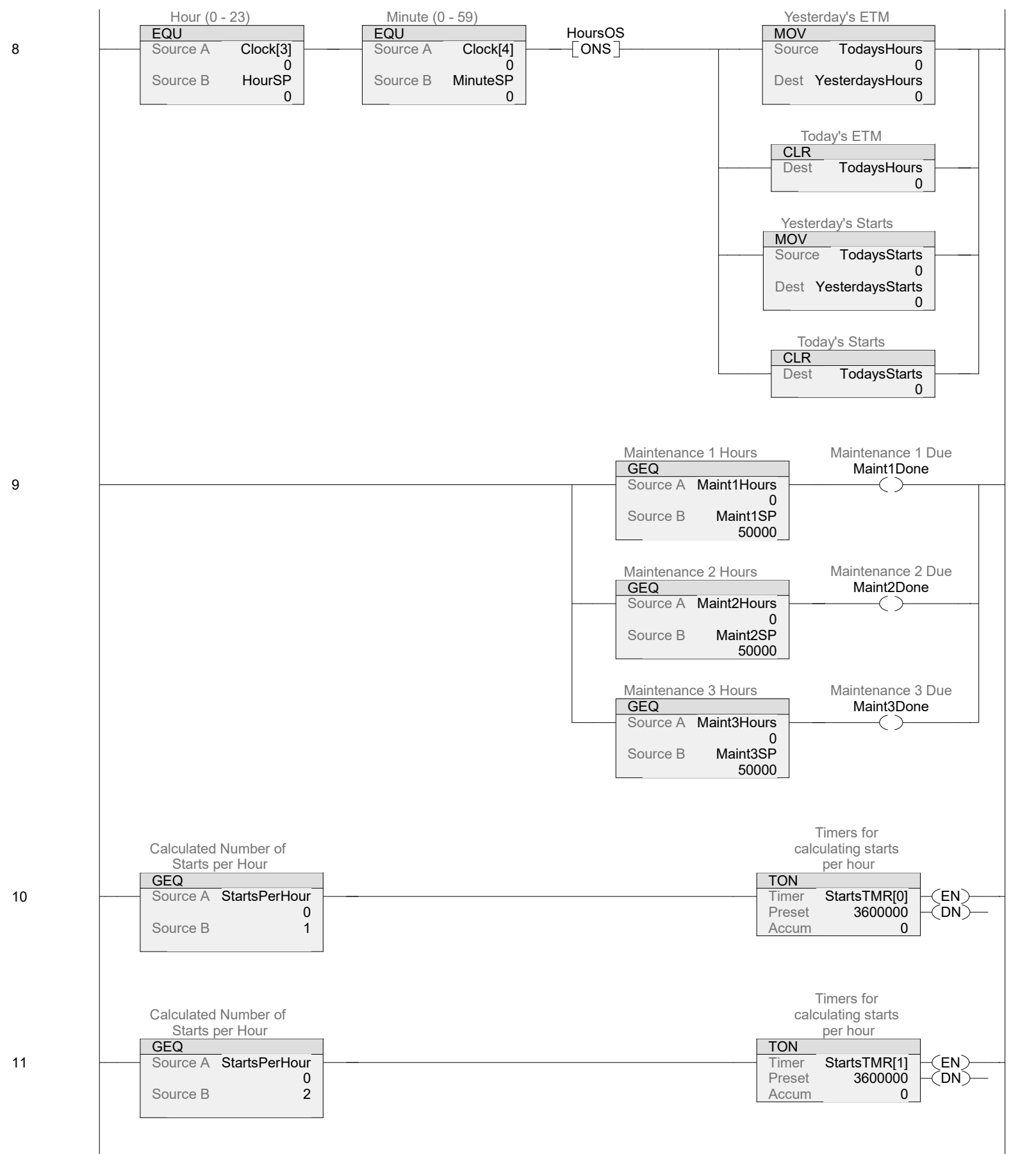
0

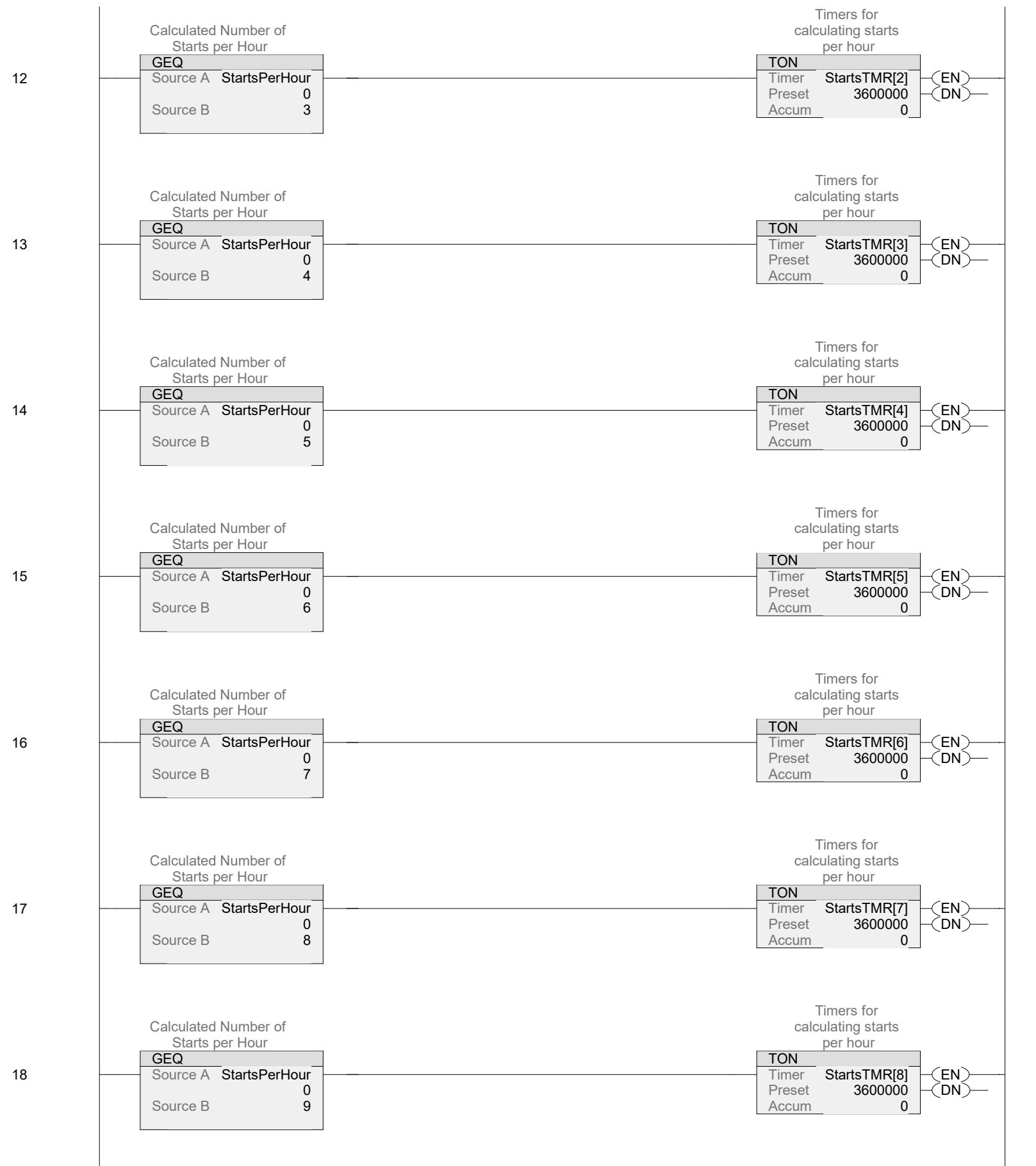


UDT Status Mapping





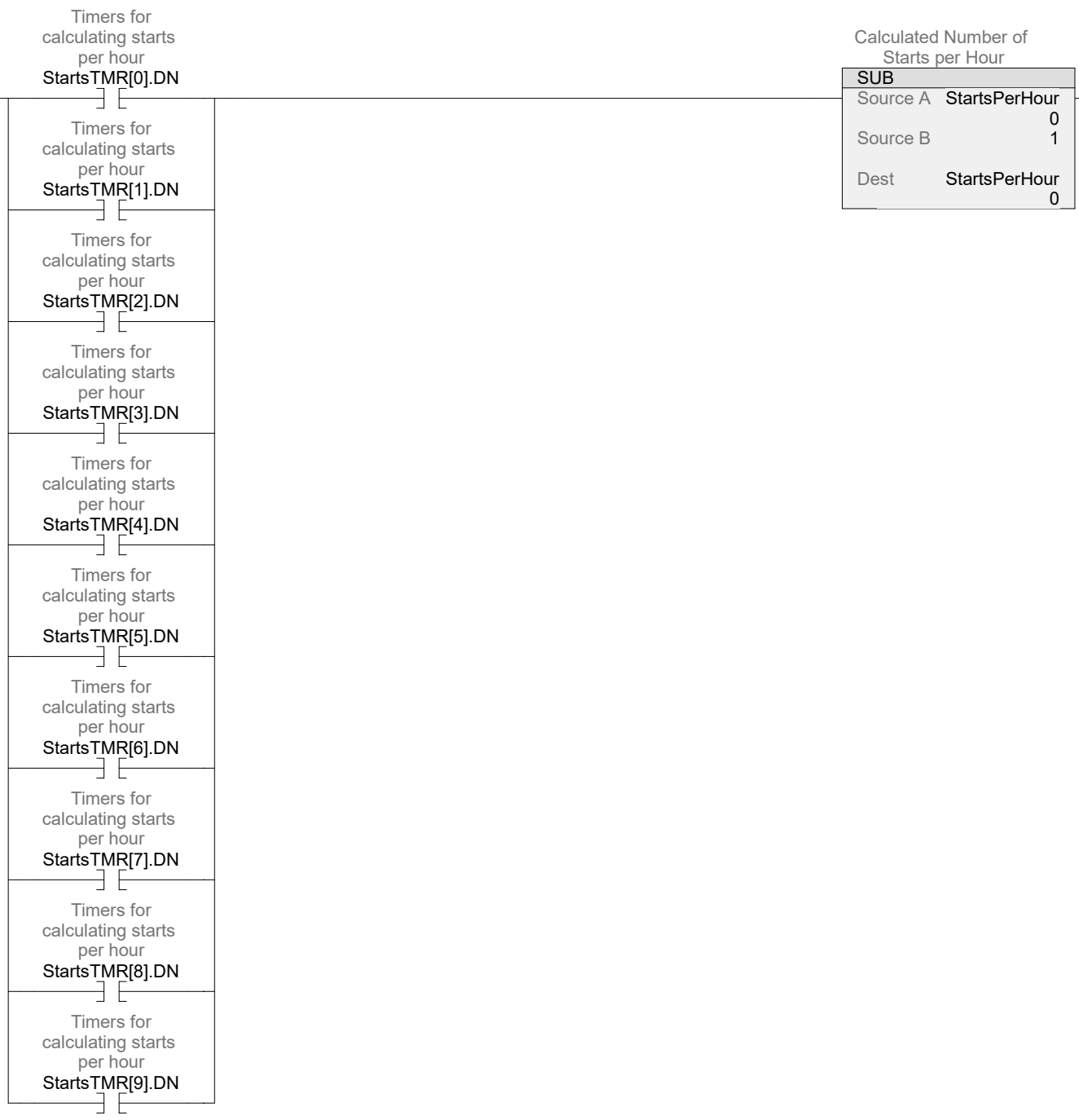


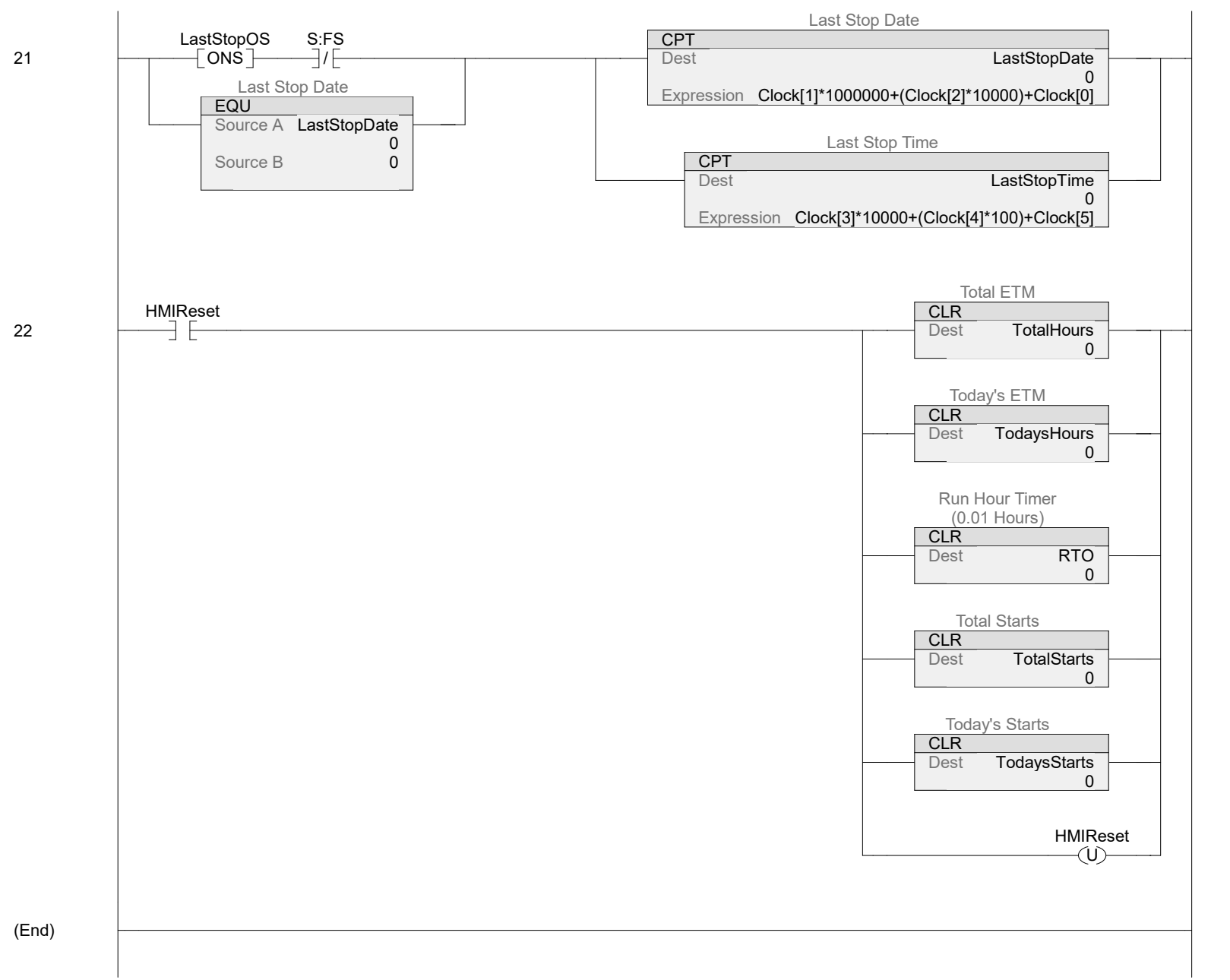


19



20





(End)

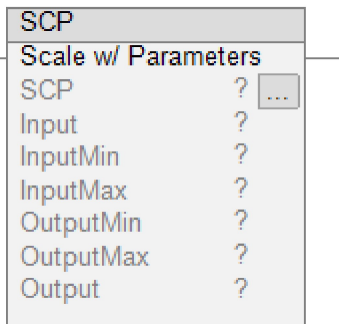
SCP v33.0 First Revision

SKM

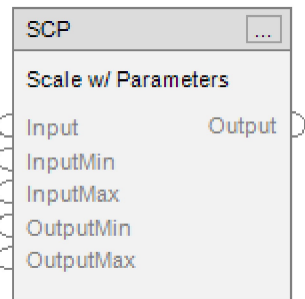
Scale w/ Parameters

Available Languages

Relay Ladder



Function Block



Structured Text

SCP();

Parameters

Required	Name	Data Type	Usage	Description
X	SCP	SCP	InOut	Scale w/ Parameters
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
	Input	REAL	Input	
	InputMin	REAL	Input	
	InputMax	REAL	Input	
	OutputMin	REAL	Input	
	OutputMax	REAL	Input	
	Output	REAL	Output	
	ClampMin	BOOL	Input	
	ClampMax	BOOL	Input	

Extended Description

- Scales Linearly between values defined within control block.
- Scaling Parameters are available on the face of control block for ease of configuration.
- In addition there is the option to clamp the Output to the OuputMin, OutputMax or both within the control block (0=disabled, 1=enabled).
- Default values are 4000-20000 on the Input and 0-100 on the Ouput with clamping enabled.

Execution

Condition	Description
-----------	-------------

EnableIn is false

EnableIn is true

Revision v33.0 First Revision Notes

.0 Implemented Control/Status Local tags to improve comms efficiency

Name	Default	Data Type	Scope
ClampMax	0	BOOL	SCP
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>ClampMax - SCP/EnableInFalse - *10(OTL), *11(OTU), 1(XIC)</i>			
<i>ClampMax - SCP/Logic - *10(OTL), *11(OTU), 1(XIC), 12(XIC)</i>			
ClampMin	0	BOOL	SCP
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>ClampMin - SCP/EnableInFalse - *8(OTL), *9(OTU), 1(XIC)</i>			
<i>ClampMin - SCP/Logic - *8(OTL), *9(OTU), 1(XIC), 12(XIC)</i>			
Input	0.0	REAL	SCP
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Input - SCP/EnableInFalse - *2(MOV), 1(MOV)</i>			
<i>Input - SCP/Logic - *2(MOV), 1(MOV), 12(CPT), 12(GRT), 12(LES)</i>			
InputMax	20000.0	REAL	SCP
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>InputMax - SCP/EnableInFalse - *3(MOV), 1(MOV)</i>			
<i>InputMax - SCP/Logic - *4(MOV), 1(MOV), 12(CPT), 12(EQU), 12(GRT), 12(LES), 12(NEQ)</i>			
InputMin	4000.0	REAL	SCP
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>InputMin - SCP/EnableInFalse - *4(MOV), 1(MOV)</i>			
<i>InputMin - SCP/Logic - *3(MOV), 1(MOV), 12(CPT), 12(EQU), 12(GRT), 12(LES), 12(NEQ)</i>			
Output	0.0	REAL	SCP
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>Output - SCP/EnableInFalse - *7(MOV), 1(MOV)</i>			
<i>Output - SCP/Logic - *12(CPT), *12(MOV), *7(MOV), 1(MOV)</i>			
OutputMax	100.0	REAL	SCP
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>OutputMax - SCP/EnableInFalse - *5(MOV), 1(MOV)</i>			
<i>OutputMax - SCP/Logic - *6(MOV), 1(MOV), 12(CPT), 12(MOV)</i>			
OutputMin	0.0	REAL	SCP
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>OutputMin - SCP/EnableInFalse - *6(MOV), 1(MOV)</i>			

OutputMin (Continued)

*OutputMin - SCP/Logic - *5(MOV), 1(MOV), 12(CPT), 12(MOV)*

Name	Default	Data Type	Scope
Control		SCP_Control	SCP
Usage:	Local Tag		
External Access:	Read/Write		
Control.Input	0.0	REAL	
<i>Control.Input - SCP/EnableInFalse - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
<i>Control.Input - SCP/Logic - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
Control.InputMax	0.0	REAL	
<i>Control.InputMax - SCP/EnableInFalse - *0(MOV), *3(MOV), 3(MOV), 3(NEQ)</i>			
<i>Control.InputMax - SCP/Logic - *0(MOV), *4(MOV), 4(MOV), 4(NEQ)</i>			
Control.InputMin	0.0	REAL	
<i>Control.InputMin - SCP/EnableInFalse - *0(MOV), *4(MOV), 4(MOV), 4(NEQ)</i>			
<i>Control.InputMin - SCP/Logic - *0(MOV), *3(MOV), 3(MOV), 3(NEQ)</i>			
Control.OutputMax	0.0	REAL	
<i>Control.OutputMax - SCP/EnableInFalse - *0(MOV), *5(MOV), 5(MOV), 5(NEQ)</i>			
<i>Control.OutputMax - SCP/Logic - *0(MOV), *6(MOV), 6(MOV), 6(NEQ)</i>			
Control.OutputMin	0.0	REAL	
<i>Control.OutputMin - SCP/EnableInFalse - *0(MOV), *6(MOV), 6(MOV), 6(NEQ)</i>			
<i>Control.OutputMin - SCP/Logic - *0(MOV), *5(MOV), 5(MOV), 5(NEQ)</i>			
Control.Output	0.0	REAL	
<i>Control.Output - SCP/EnableInFalse - *0(MOV), *7(MOV), 7(MOV), 7(NEQ)</i>			
<i>Control.Output - SCP/Logic - *0(MOV), *7(MOV), 7(MOV), 7(NEQ)</i>			
Control.ClampMax	0	BOOL	
<i>Control.ClampMax - SCP/EnableInFalse - *0(OTU), *10(OTU), 10(XIC)</i>			
<i>Control.ClampMax - SCP/Logic - *0(OTU), *10(OTU), 10(XIC)</i>			
Control.UnclampMax	0	BOOL	
<i>Control.UnclampMax - SCP/EnableInFalse - *0(OTU), *11(OTU), 11(XIC)</i>			
<i>Control.UnclampMax - SCP/Logic - *0(OTU), *11(OTU), 11(XIC)</i>			
Control.ClampMin	0	BOOL	
<i>Control.ClampMin - SCP/EnableInFalse - *0(OTU), *8(OTU), 8(XIC)</i>			
<i>Control.ClampMin - SCP/Logic - *0(OTU), *8(OTU), 8(XIC)</i>			
Control.UnclampMin	0	BOOL	
<i>Control.UnclampMin - SCP/EnableInFalse - *0(OTU), *9(OTU), 9(XIC)</i>			
<i>Control.UnclampMin - SCP/Logic - *0(OTU), *9(OTU), 9(XIC)</i>			
FS_ONS	0	BOOL	SCP
Usage:	Local Tag		
External Access:	None		
<i>FS_ONS - SCP/EnableInFalse - *0(ONS)</i>			
<i>FS_ONS - SCP/Logic - *0(ONS)</i>			
Status		SCP_Status	SCP
Usage:	Local Tag		
External Access:	Read Only		
Status.Input	0.0	REAL	
<i>Status.Input - SCP/EnableInFalse - *1(MOV)</i>			
<i>Status.Input - SCP/Logic - *1(MOV)</i>			
Status.InputMax	0.0	REAL	
<i>Status.InputMax - SCP/EnableInFalse - *1(MOV)</i>			
<i>Status.InputMax - SCP/Logic - *1(MOV)</i>			
Status.InputMin	0.0	REAL	
<i>Status.InputMin - SCP/EnableInFalse - *1(MOV)</i>			
<i>Status.InputMin - SCP/Logic - *1(MOV)</i>			
Status.OutputMax	0.0	REAL	
<i>Status.OutputMax - SCP/EnableInFalse - *1(MOV)</i>			
<i>Status.OutputMax - SCP/Logic - *1(MOV)</i>			
Status.OutputMin	0.0	REAL	
<i>Status.OutputMin - SCP/EnableInFalse - *1(MOV)</i>			
<i>Status.OutputMin - SCP/Logic - *1(MOV)</i>			
Status.Output	0.0	REAL	
<i>Status.Output - SCP/EnableInFalse - *1(MOV)</i>			
<i>Status.Output - SCP/Logic - *1(MOV)</i>			
Status.ClampMax	0	BOOL	

Status (Continued)

*Status.ClampMax - SCP/EnableInFalse - *1(O TE)*

*Status.ClampMax - SCP/Logic - *1(O TE)*

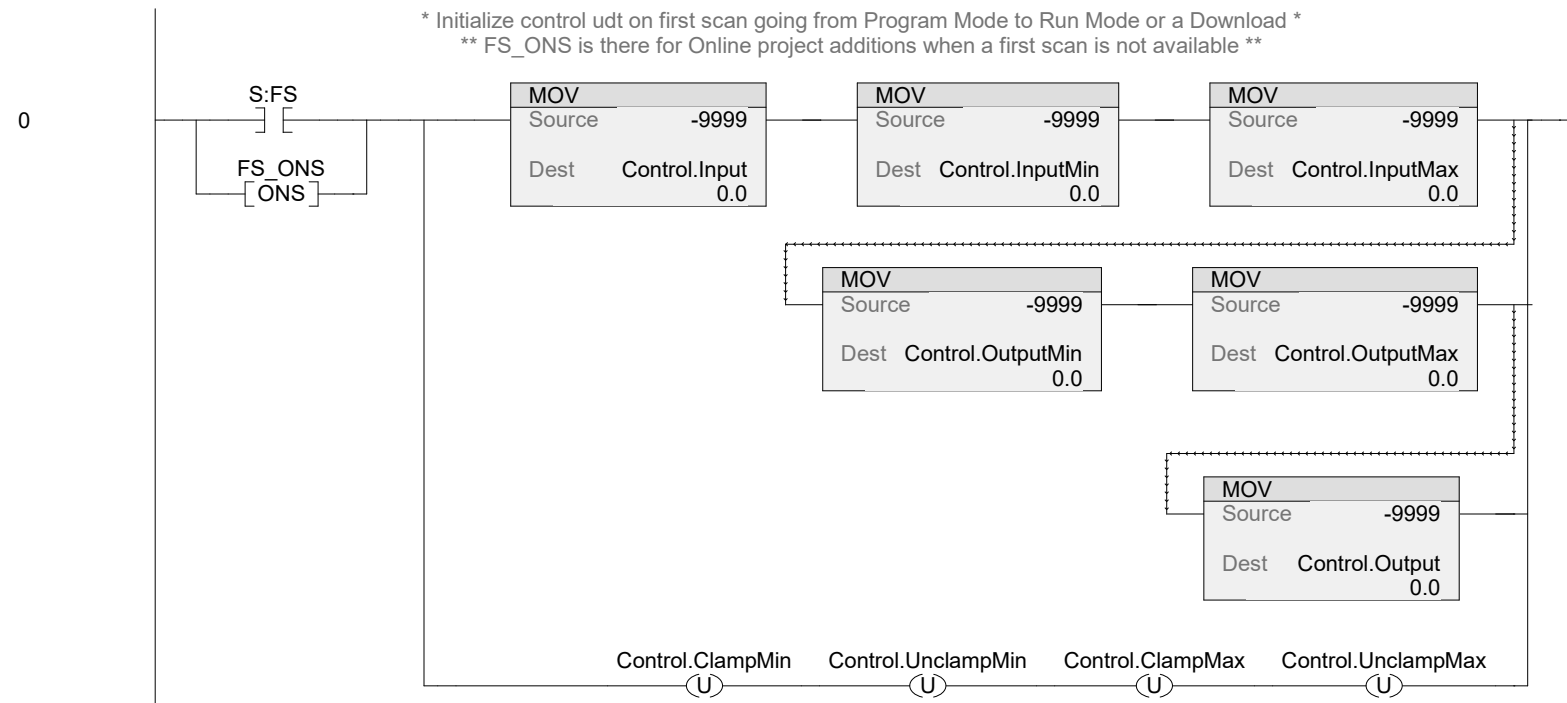
Status.ClampMin 0

BOOL

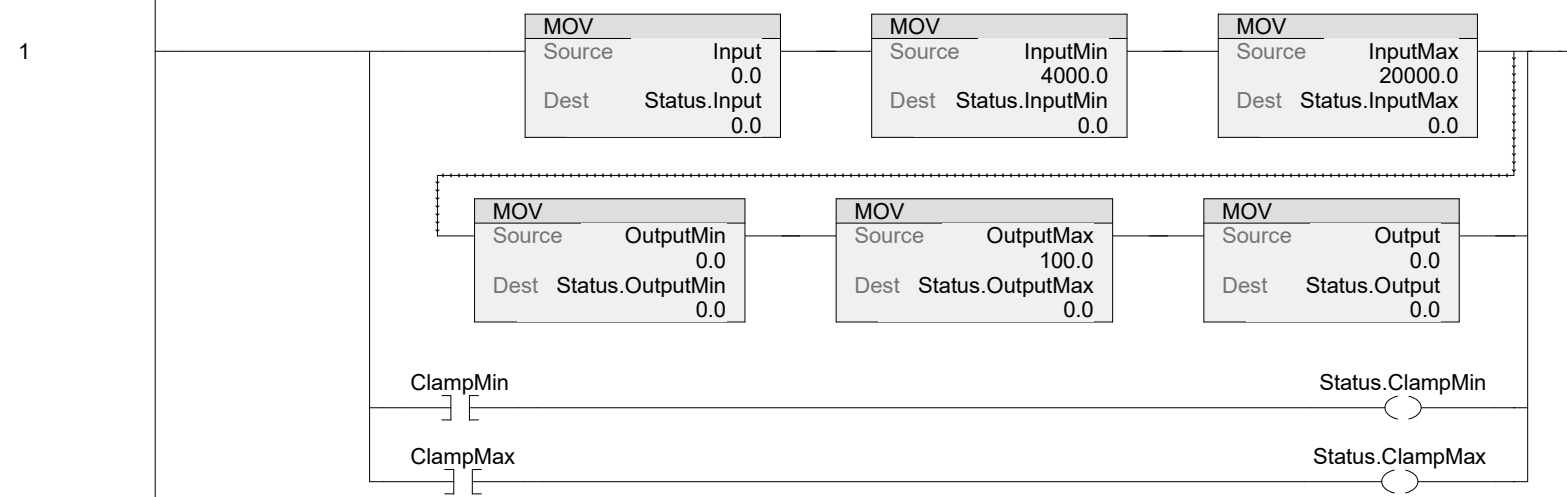
*Status.ClampMin - SCP/EnableInFalse - *1(O TE)*

*Status.ClampMin - SCP/Logic - *1(O TE)*

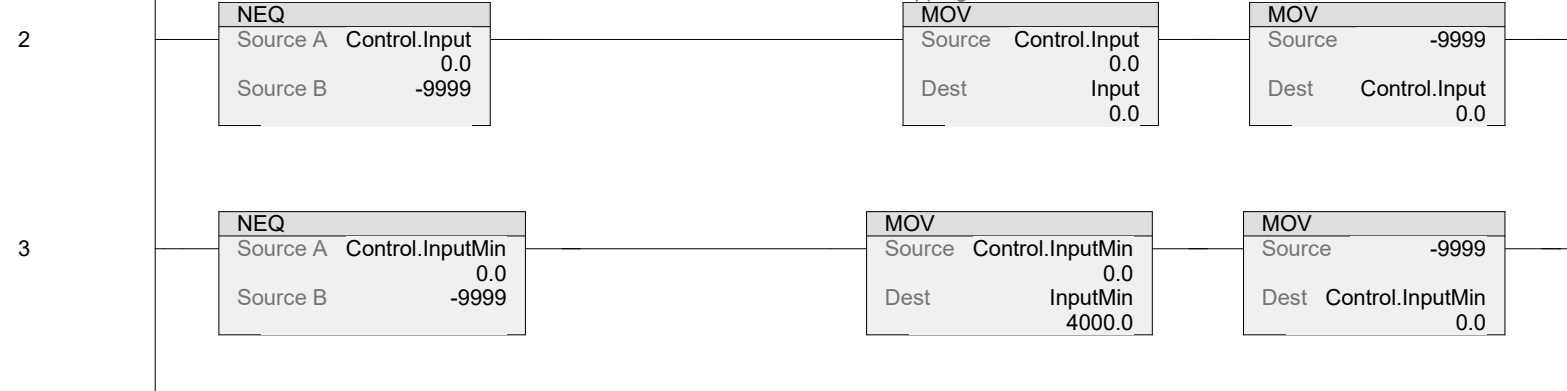
* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *
 ** FS_ONS is there for Online project additions when a first scan is not available **

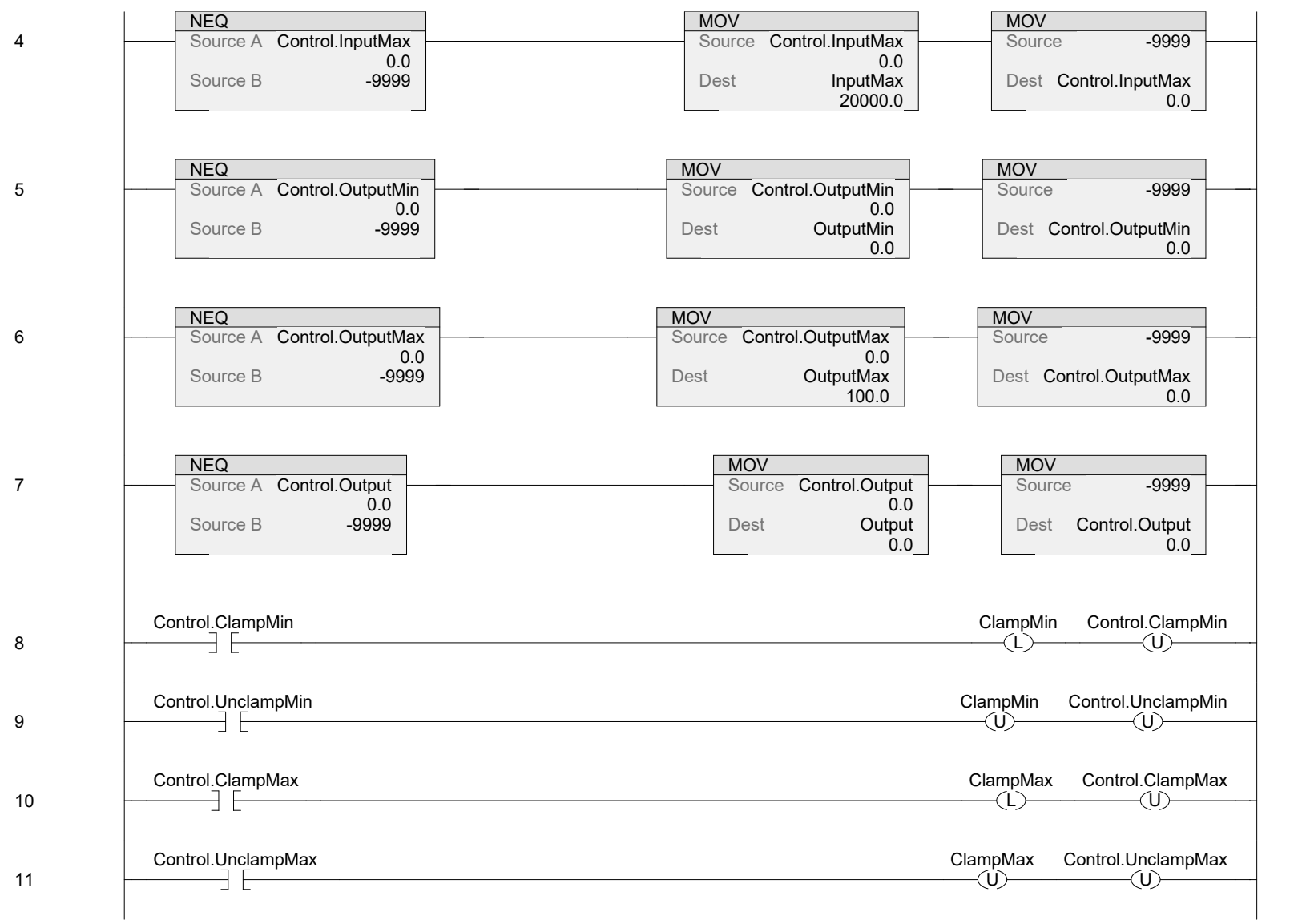


UDT Status Mapping



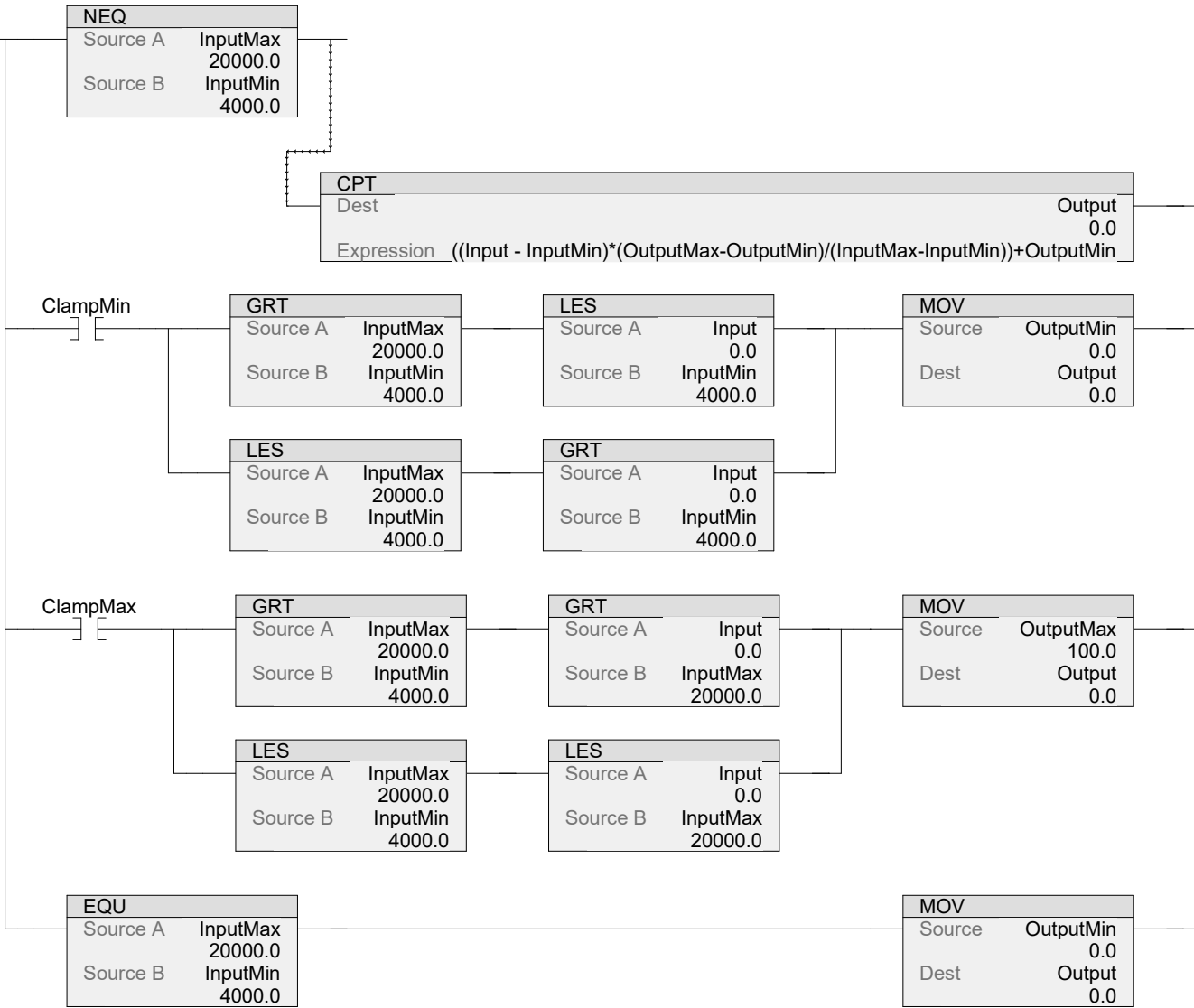
UDT Control Mapping





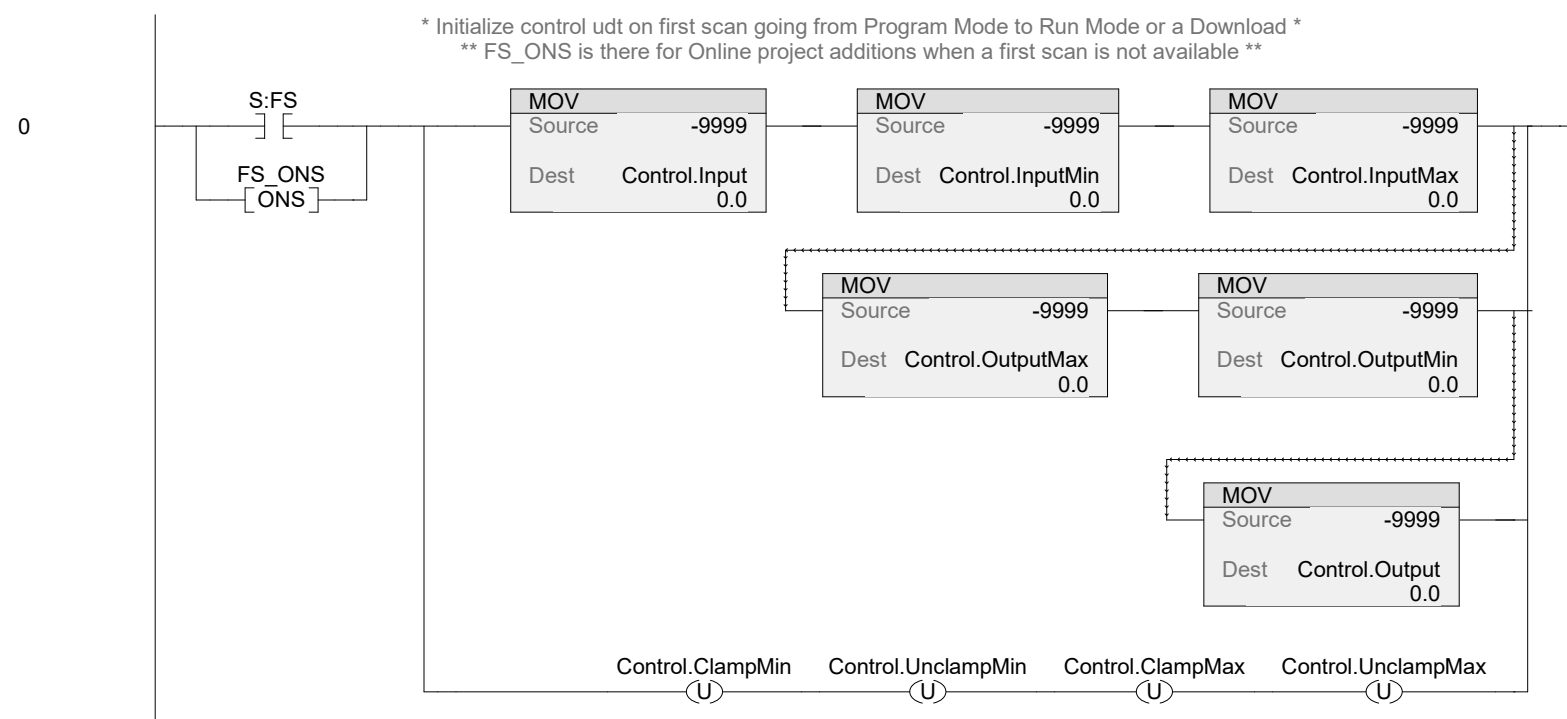
Logic

12

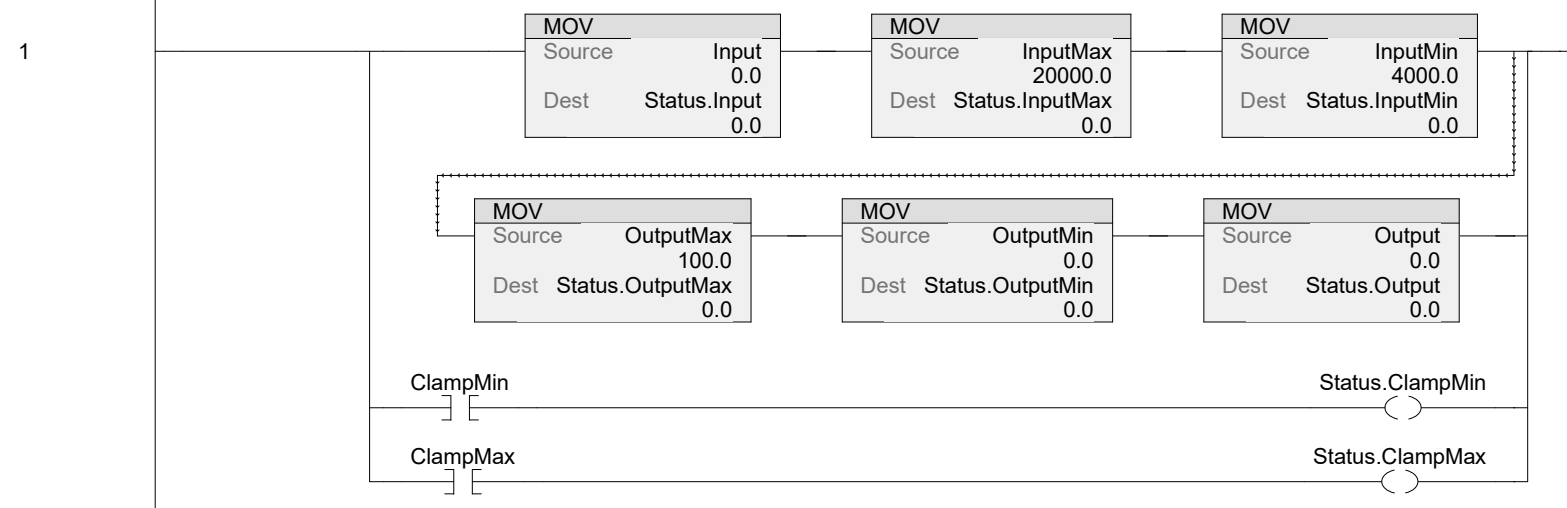


(End)

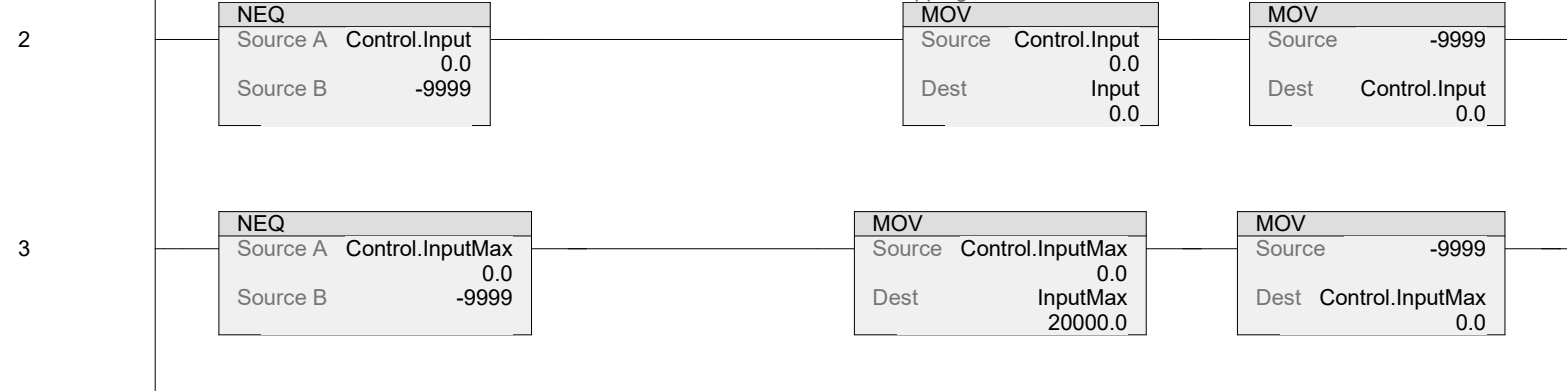
* Initialize control udt on first scan going from Program Mode to Run Mode or a Download *
** FS_ONS is there for Online project additions when a first scan is not available **

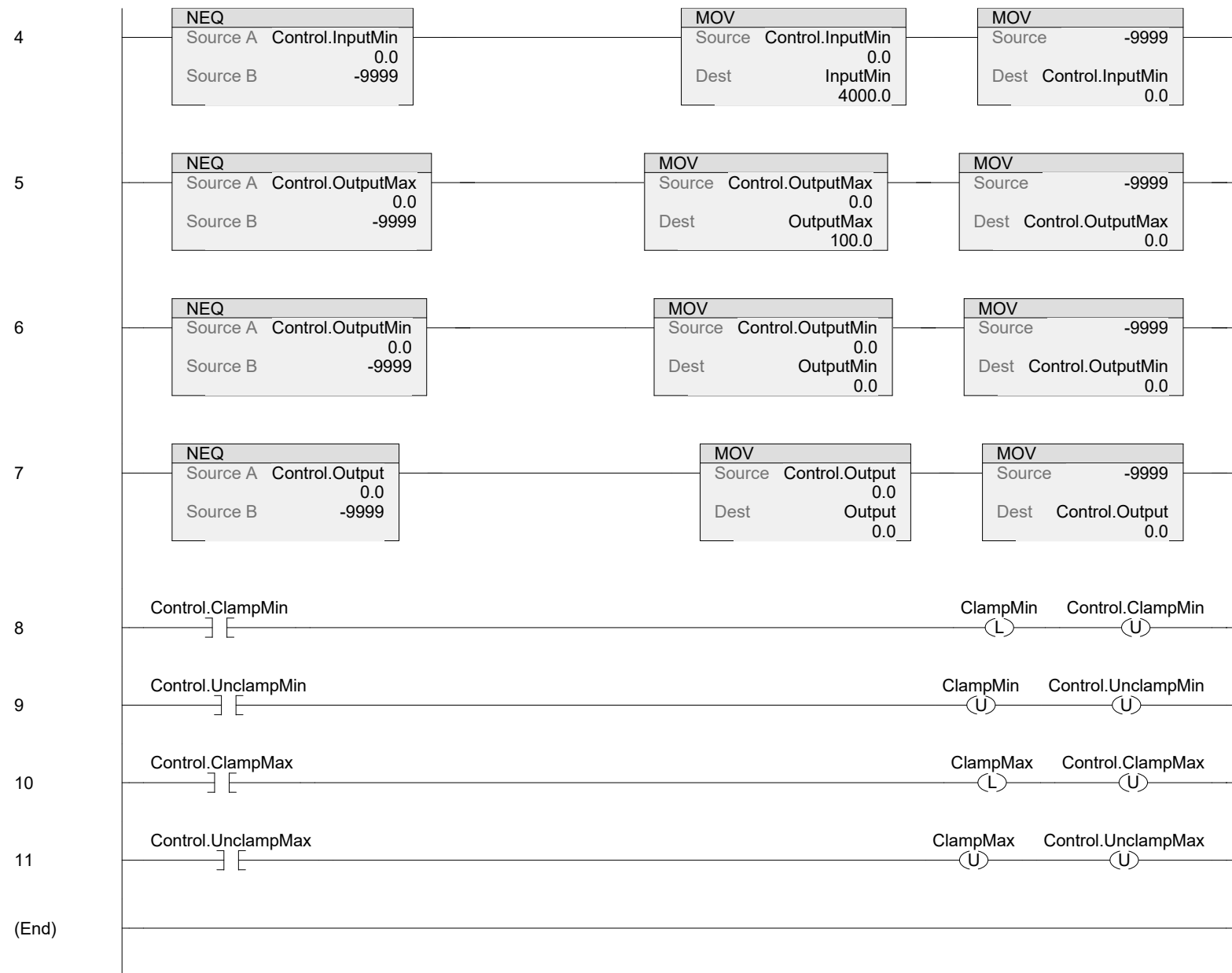


UDT Status Mapping



UDT Control Mapping





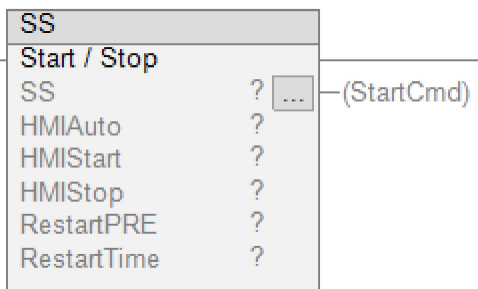
SS v33.0 First Revision

SKM

Start / Stop

Available Languages

Relay Ladder



Function Block



Structured Text

SS();

Parameters

Required	Name	Data Type	Usage	Description
X	SS	SS	InOut	Start / Stop
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
	HMIAuto	BOOL	Input	HMI Auto
	AutoStart	BOOL	Input	Auto Start Command
	HMIAuto	BOOL	Input	HMI Manual Start
	HMIAuto	BOOL	Input	HMI Manual Stop
	StartCmd	BOOL	Output	Start Command
	RestartActive	BOOL	Output	Restart Delay Active
	RestartPRE	DINT	Input	Restart Delay Preset (Milliseconds)
	RestartTime	DINT	Output	Actual Restart Time (Times Down)

Extended Description

- This routine may be used for Start/Stop type controls.
- The HMIAuto and HMIStop commands only have effect if HMIAuto is set to 0 (Manual).
- Use the AutoStart dot field accordingly for your application for when the HMIAuto is set to 1 (Auto).
- By default the RestartPRE is set to 0 (disabled) but can be used the set a time delay before a StartCmd can be issued again after it is turned off.
- Reference the RestartActive bit in the block to show when the restart timer is active.

Execution

Condition	Description
-----------	-------------

EnableIn is false

EnableIn is true

Revision v33.0 First Revision Notes

.0 Implemented Control/Status Local tags to improve comms efficiency

Name	Default	Data Type	Scope
AutoStart	0	BOOL	SS
Auto Start Command			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read/Write		
<i>AutoStart - SS/EnableInFalse - 1(XIC)</i>			
<i>AutoStart - SS/Logic - 1(XIC), 7(XIC)</i>			
EnableIn	1	BOOL	SS
Enable Input - System Defined Parameter			
Usage:	Input Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>EnableIn - SS/EnableInFalse - 1(XIC)</i>			
<i>EnableIn - SS/Logic - 1(XIC)</i>			
HMIAuto	0	BOOL	SS
HMI Auto			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIAuto - SS/EnableInFalse - *3(OTL), *4(OTU), 1(XIC)</i>			
<i>HMIAuto - SS/Logic - *3(OTL), *4(OTU), 1(XIC), 7(XIC), 7(XIO)</i>			
HMIStart	0	BOOL	SS
HMI Manual Start			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIStart - SS/EnableInFalse - *11(OTU), 11(XIC)</i>			
<i>HMIStart - SS/Logic - *11(OTU), *5(OTL), 11(XIC), 7(XIC)</i>			
HMIStop	0	BOOL	SS
HMI Manual Stop			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>HMIStop - SS/EnableInFalse - *12(OTU), 12(XIC)</i>			
<i>HMIStop - SS/Logic - *12(OTU), *6(OTL), 12(XIC), 7(XIO)</i>			
RestartActive	0	BOOL	SS
Restart Delay Active			
Usage:	Output Parameter		
Required:	No		
Visible:	No		
External Access:	Read Only		
<i>RestartActive - SS/EnableInFalse - *10(OTE), 1(XIC)</i>			
<i>RestartActive - SS/Logic - *10(OTE), 1(XIC)</i>			
RestartPRE	0	DINT	SS
Restart Delay Preset (Milliseconds)			
Usage:	Input Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read/Write		
<i>RestartPRE - SS/EnableInFalse - *2(MOV), 1(MOV), 9(MOV)</i>			
<i>RestartPRE - SS/Logic - *2(MOV), 1(MOV), 9(MOV)</i>			

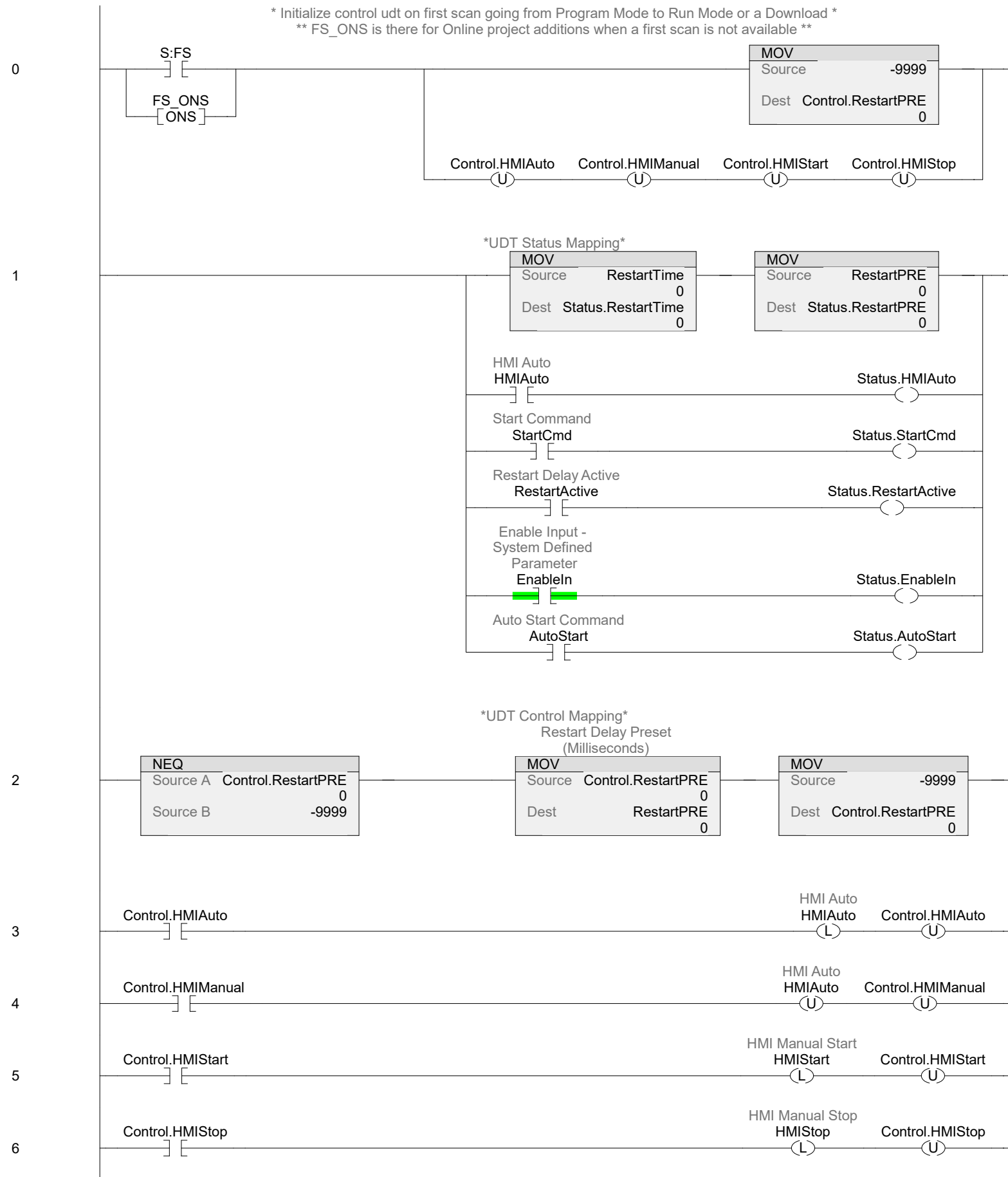
RestartTime	0	DINT	SS
Actual Restart Time (Times Down)			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>RestartTime - SS/EnableInFalse - *13(MOV), *13(SUB), 1(MOV)</i>			
<i>RestartTime - SS/Logic - *13(MOV), *13(SUB), 1(MOV)</i>			

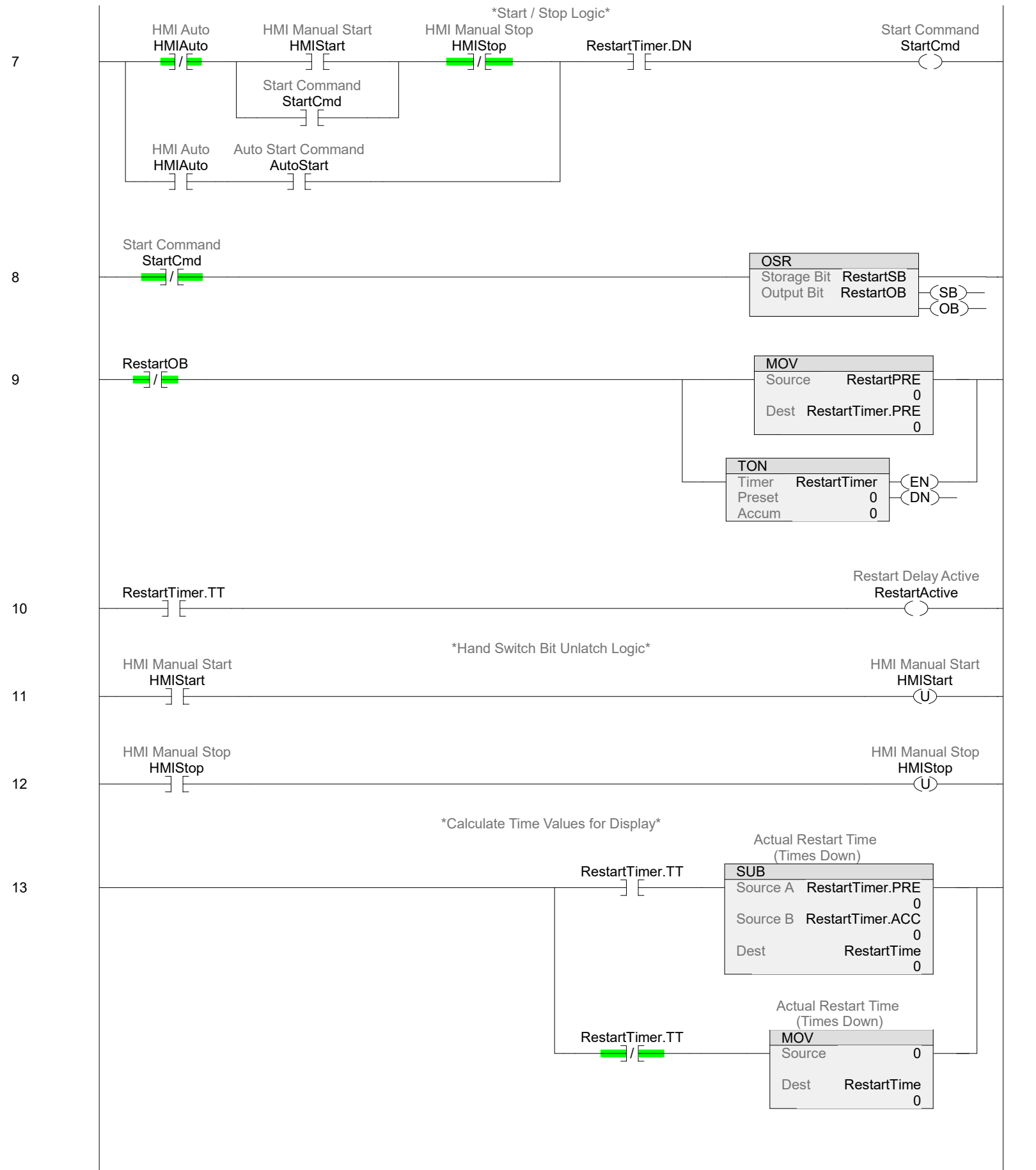
StartCmd	0	BOOL	SS
Start Command			
Usage:	Output Parameter		
Required:	No		
Visible:	Yes		
External Access:	Read Only		
<i>StartCmd - SS/EnableInFalse - *7(OTU), 1(XIC), 8(XIO)</i>			
<i>StartCmd - SS/Logic - *7(OTE), 1(XIC), 7(XIC), 8(XIO)</i>			

Name	Default	Data Type	Scope
Control		SS_Control	SS
Usage:	Local Tag		
External Access:	Read/Write		
Control.HMIAuto	0	BOOL	
<i>Control.HMIAuto - SS/EnableInFalse - *0(OTU), *3(OTU), 3(XIC)</i>			
<i>Control.HMIAuto - SS/Logic - *0(OTU), *3(OTU), 3(XIC)</i>			
Control.HMIManual	0	BOOL	
<i>Control.HMIManual - SS/EnableInFalse - *0(OTU), *4(OTU), 4(XIC)</i>			
<i>Control.HMIManual - SS/Logic - *0(OTU), *4(OTU), 4(XIC)</i>			
Control.HMISStart	0	BOOL	
<i>Control.HMISStart - SS/EnableInFalse - *0(OTU), *5(OTU), 5(XIC)</i>			
<i>Control.HMISStart - SS/Logic - *0(OTU), *5(OTU), 5(XIC)</i>			
Control.HMISStop	0	BOOL	
<i>Control.HMISStop - SS/EnableInFalse - *0(OTU), *6(OTU), 6(XIC)</i>			
<i>Control.HMISStop - SS/Logic - *0(OTU), *6(OTU), 6(XIC)</i>			
Control.RestartPRE	0	DINT	
<i>Control.RestartPRE - SS/EnableInFalse - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
<i>Control.RestartPRE - SS/Logic - *0(MOV), *2(MOV), 2(MOV), 2(NEQ)</i>			
FS_ONS	0	BOOL	SS
Usage:	Local Tag		
External Access:	None		
<i>FS_ONS - SS/EnableInFalse - *0(ONS)</i>			
<i>FS_ONS - SS/Logic - *0(ONS)</i>			
RestartOB	0	BOOL	SS
Usage:	Local Tag		
External Access:	Read/Write		
<i>RestartOB - SS/EnableInFalse - *8(OSR), 9(XIO)</i>			
<i>RestartOB - SS/Logic - *8(OSR), 9(XIO)</i>			
RestartSB	0	BOOL	SS
Usage:	Local Tag		
External Access:	Read/Write		
<i>RestartSB - SS/EnableInFalse - *8(OSR)</i>			
<i>RestartSB - SS/Logic - *8(OSR)</i>			
RestartTimer		TIMER	SS
Usage:	Local Tag		
External Access:	Read/Write		
<i>RestartTimer - SS/EnableInFalse - *9(TON)</i>			
<i>RestartTimer - SS/Logic - *9(TON)</i>			
RestartTimer.PRE	0	DINT	
<i>RestartTimer.PRE - SS/EnableInFalse - *9(MOV), 13(SUB)</i>			
<i>RestartTimer.PRE - SS/Logic - *9(MOV), 13(SUB)</i>			
RestartTimer.ACC	0	DINT	
<i>RestartTimer.ACC - SS/EnableInFalse - 13(SUB)</i>			
<i>RestartTimer.ACC - SS/Logic - 13(SUB)</i>			
RestartTimer.TT	0	BOOL	
<i>RestartTimer.TT - SS/EnableInFalse - 10(XIC), 13(XIC), 13(XIO)</i>			
<i>RestartTimer.TT - SS/Logic - 10(XIC), 13(XIC), 13(XIO)</i>			
RestartTimer.DN	0	BOOL	
<i>RestartTimer.DN - SS/Logic - 7(XIC)</i>			
Status		SS_Status	SS
Usage:	Local Tag		
External Access:	Read Only		
Status.EnableIn	0	BOOL	
<i>Status.EnableIn - SS/EnableInFalse - *1(OTE)</i>			
<i>Status.EnableIn - SS/Logic - *1(OTE)</i>			
Status.HMIAuto	0	BOOL	
<i>Status.HMIAuto - SS/EnableInFalse - *1(OTE)</i>			

Status (Continued)

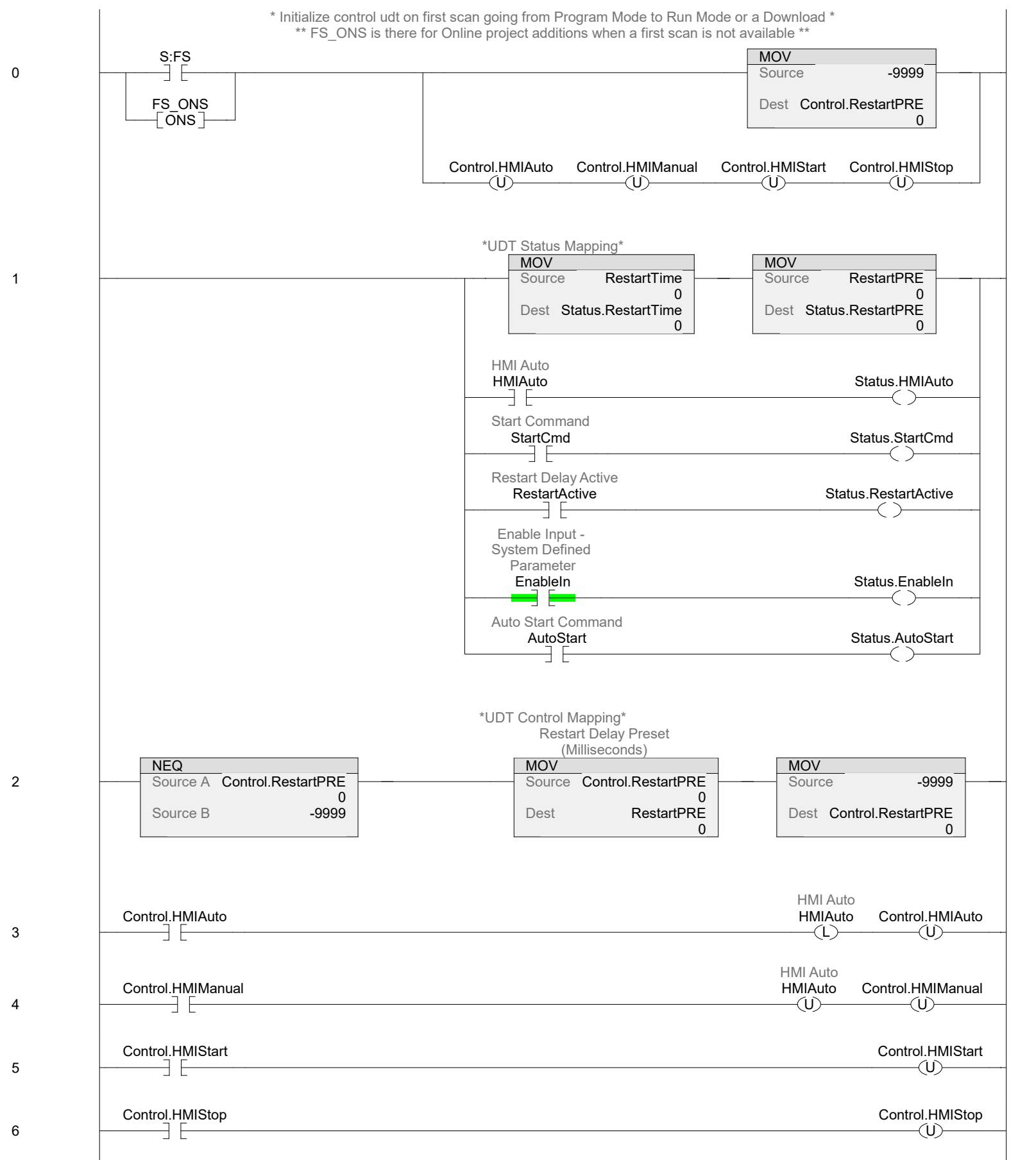
<i>Status.HMIAuto - SS/Logic - *1(OTE)</i>	
Status.AutoStart	0
	BOOL
<i>Status.AutoStart - SS/EnableInFalse - *1(OTE)</i>	
<i>Status.AutoStart - SS/Logic - *1(OTE)</i>	
Status.StartCmd	0
	BOOL
<i>Status.StartCmd - SS/EnableInFalse - *1(OTE)</i>	
<i>Status.StartCmd - SS/Logic - *1(OTE)</i>	
Status.RestartActive	0
	BOOL
<i>Status.RestartActive - SS/EnableInFalse - *1(OTE)</i>	
<i>Status.RestartActive - SS/Logic - *1(OTE)</i>	
Status.RestartPRE	0
	DINT
<i>Status.RestartPRE - SS/EnableInFalse - *1(MOV)</i>	
<i>Status.RestartPRE - SS/Logic - *1(MOV)</i>	
Status.RestartTime	0
	DINT
<i>Status.RestartTime - SS/EnableInFalse - *1(MOV)</i>	
<i>Status.RestartTime - SS/Logic - *1(MOV)</i>	

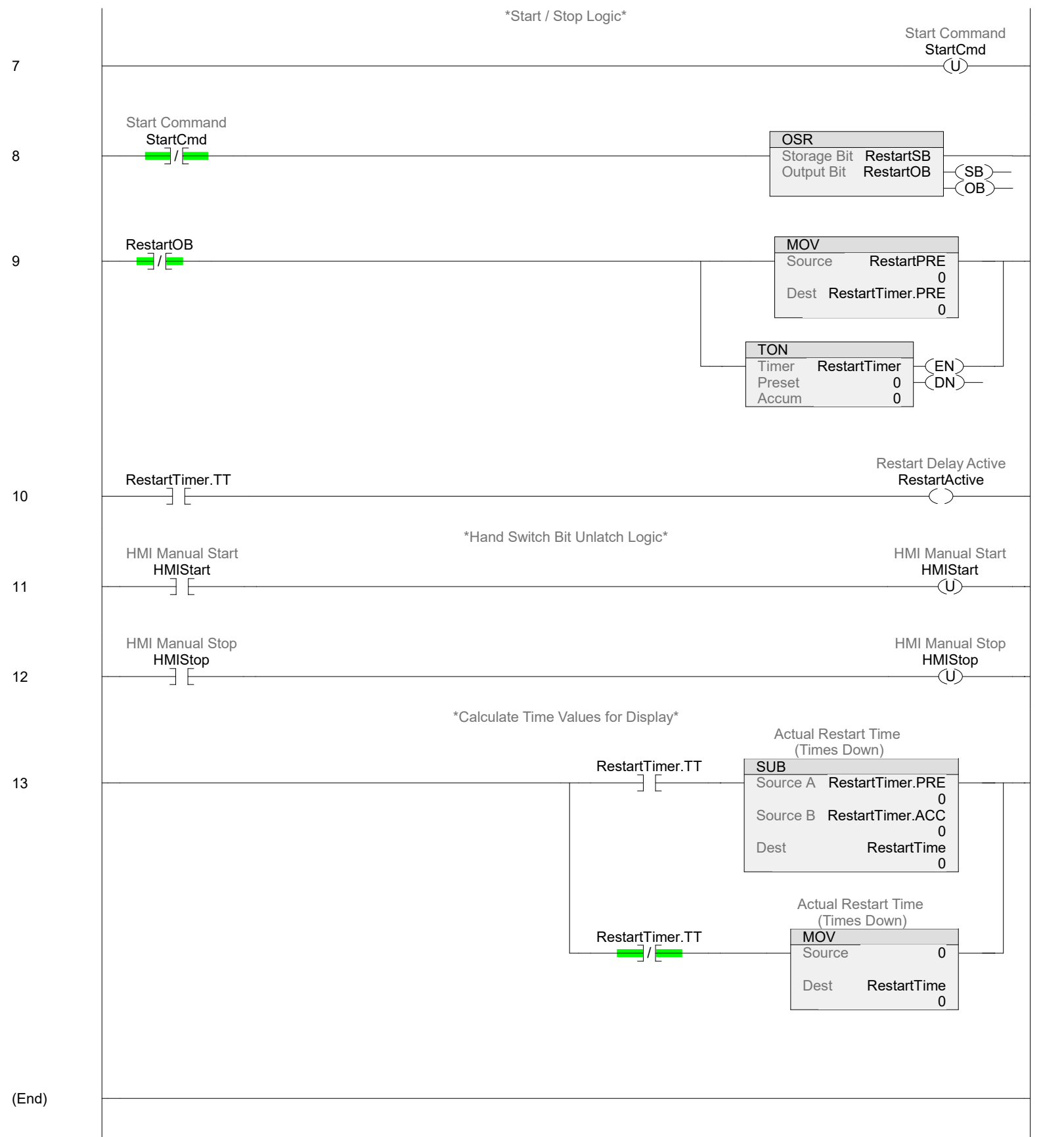




(End)







(End)

Data type Name: ALRM_Control

Description:

Size: 8 byte(s)

Name	Value	Data Type	Style
OperLatch External Access:	Read/Write	BOOL	Decimal
OperUnlatch External Access:	Read/Write	BOOL	Decimal
OperEnable External Access:	Read/Write	BOOL	Decimal
OperDisable External Access:	Read/Write	BOOL	Decimal
OperReset External Access:	Read/Write	BOOL	Decimal
AlarmCountReset External Access:	Read/Write	BOOL	Decimal
MinDurationPRE External Access:	Read/Write	DINT	Decimal

Data type Name: ALRM_Status

Description:

Size: 12 byte(s)

Name	Value	Data Type	Style
EnableIn External Access:	Read/Write	BOOL	Decimal
Latched External Access:	Read/Write	BOOL	Decimal
InAlarm External Access:	Read/Write	BOOL	Decimal
Disabled External Access:	Read/Write	BOOL	Decimal
MinDurationPRE External Access:	Read/Write	DINT	Decimal
MinDurationACC External Access:	Read/Write	DINT	Decimal

Data type Name: CODEMUX_Control

Description:

Size: 24 byte(s)

Name	Value	Data Type	Style
Code01 External Access:	Read/Write	DINT	Decimal
Code02 External Access:	Read/Write	DINT	Decimal
Code03 External Access:	Read/Write	DINT	Decimal
Code04 External Access:	Read/Write	DINT	Decimal
Code05 External Access:	Read/Write	DINT	Decimal
Code06 External Access:	Read/Write	DINT	Decimal

Data type Name: CODEMUX_Status

Description:

Size: 28 byte(s)

Name	Value	Data Type	Style
Code External Access:	Read/Write	DINT	Decimal
Code01 External Access:	Read/Write	DINT	Decimal
Code02 External Access:	Read/Write	DINT	Decimal
Code03 External Access:	Read/Write	DINT	Decimal
Code04 External Access:	Read/Write	DINT	Decimal
Code05 External Access:	Read/Write	DINT	Decimal
Code06 External Access:	Read/Write	DINT	Decimal

Data type Name: DateTime

Description:
Date and Time

Size: 28 byte(s)

Name	Value	Data Type	Style
Year		DINT	Decimal
Year			
External Access:	Read/Write		
Month		DINT	Decimal
Month (1 - 12)			
External Access:	Read/Write		
Day		DINT	Decimal
Day (1 - 31)			
External Access:	Read/Write		
Hour		DINT	Decimal
Hour (0 - 23)			
External Access:	Read/Write		
Minute		DINT	Decimal
Minute (0 - 59)			
External Access:	Read/Write		
Second		DINT	Decimal
Second (0 - 59)			
External Access:	Read/Write		
MicroSecond		DINT	Decimal
Microsecond (0 - 999,999)			
External Access:	Read/Write		

Data type Name: DG1_Control

Description:

Size: 36 byte(s)

Name	Value	Data Type	Style
SpeedPercentFactor		DINT	Decimal
Speed Actual			
Scale Factor (%)			
External Access:	Read/Write		
FrequencyFactor		DINT	Decimal
Frequency			
Scale Factor (10)			
External Access:	Read/Write		
SpeedRPMFactor		DINT	Decimal
Speed Scale Factor (RPM)			
External Access:	Read/Write		
TorqueFactor		DINT	Decimal
Torque			
Scale Factor (10)			
External Access:	Read/Write		
CurrentFactor		DINT	Decimal
Current			
Scale Factor (10)			
External Access:	Read/Write		
VoltageFactor		DINT	Decimal
Motor Voltage			
Scale Factor (10)			
External Access:	Read/Write		
PowerFactor		DINT	Decimal
Power			
Scale Factor (1)			
External Access:	Read/Write		
ReferenceFactor		DINT	Decimal
Speed Reference			
Scale Factor (10)			
External Access:	Read/Write		
SpeedReference		REAL	Float
Speed Cmd (RPM)			
External Access:	Read/Write		

Data type Name: DG1_Status

Description:

Size: 48 byte(s)

Name	Value	Data Type	Style
EnableIn		BOOL	Decimal
Enabled			
External Access:	Read/Write		
NetCtrl		BOOL	Decimal
External Access:	Read/Write		
NetRef		BOOL	Decimal
External Access:	Read/Write		
Speed		REAL	Float
Speed RPM			
External Access:	Read/Write		
Frequency		REAL	Float
Frequency			
External Access:	Read/Write		
Speed_RPM		REAL	Float
Speed RPM			
External Access:	Read/Write		
Current		REAL	Float
Current			
External Access:	Read/Write		
Torque		REAL	Float
Torque			
External Access:	Read/Write		
Power		REAL	Float
Power			
External Access:	Read/Write		
InputPower		REAL	Float
Calculated Input Power			
External Access:	Read/Write		
Voltage		REAL	Float
Motor Voltage			
External Access:	Read/Write		
FaultCode		DINT	Decimal
Last Active Fault Code			
External Access:	Read/Write		
Binary		DINT	Decimal
Binary External DI / DO Status			
External Access:	Read/Write		
Ready		BOOL	Decimal
Ready			
External Access:	Read/Write		

Running		BOOL	Decimal
Running			
External Access:	Read/Write		
Direction		BOOL	Decimal
0 = Forward			
1 = Reverse			
External Access:	Read/Write		
Faulted		BOOL	Decimal
Faulted			
External Access:	Read/Write		
Remote		BOOL	Decimal
Remote			
External Access:	Read/Write		
Comm_Fault		BOOL	Decimal
Comm Fault			
External Access:	Read/Write		
Warning		BOOL	Decimal
Warning			
External Access:	Read/Write		
At_Reference		BOOL	Decimal
At Reference			
External Access:	Read/Write		
ZeroSpeed		BOOL	Decimal
Zero Speed			
External Access:	Read/Write		
FluxReady		BOOL	Decimal
Flux Ready = 0			
Flux Not Ready = 1			
External Access:	Read/Write		
FaultReset		BOOL	Decimal
FaultReset			
External Access:	Read/Write		
FwdCmd		BOOL	Decimal
FwdCmd			
External Access:	Read/Write		
RevCmd		BOOL	Decimal
RevCmd			
External Access:	Read/Write		

Data type Name: FSR_Control

Description:

Size: 8 byte(s)

Name	Value	Data Type	Style
HMIAuto External Access:	Read/Write	BOOL	Decimal
HMIManual External Access:	Read/Write	BOOL	Decimal
HMIForward External Access:	Read/Write	BOOL	Decimal
HMIStop External Access:	Read/Write	BOOL	Decimal
HMIReverse External Access:	Read/Write	BOOL	Decimal
RestartPRE External Access:	Read/Write	DINT	Decimal

Data type Name: FSR_Status

Description:

Size: 12 byte(s)

Name	Value	Data Type	Style
EnableIn External Access:	Read/Write	BOOL	Decimal
HMIAuto External Access:	Read/Write	BOOL	Decimal
AutoForward External Access:	Read/Write	BOOL	Decimal
AutoStop External Access:	Read/Write	BOOL	Decimal
AutoReverse External Access:	Read/Write	BOOL	Decimal
ForwardCmd External Access:	Read/Write	BOOL	Decimal
StopCmd External Access:	Read/Write	BOOL	Decimal
ReverseCmd External Access:	Read/Write	BOOL	Decimal
RestartActive External Access:	Read/Write	BOOL	Decimal
RestartPRE External Access:	Read/Write	DINT	Decimal
RestartTime External Access:	Read/Write	DINT	Decimal

Data type Name: HEART_Control

Description:

Size: 4 byte(s)

Name	Value	Data Type	Style
BeatSP		DINT	Decimal
External Access:	Read/Write		

Data type Name: HEART_Status

Description:

Size: 12 byte(s)

Name	Value	Data Type	Style
Count		DINT	Decimal
External Access:	Read/Write		
BeatSP		DINT	Decimal
External Access:	Read/Write		
Beat		BOOL	Decimal
External Access:	Read/Write		

Data type Name: LL_Control

Description:

Size: 88 byte(s)

Name	Value	Data Type	Style
AlternationMode External Access:	Read/Write	DINT	Decimal
AlternationPRE External Access:	Read/Write	DINT	Decimal
AlternationACC External Access:	Read/Write	DINT	Decimal
NextCall External Access:	Read/Write	DINT	Decimal
Position1SP External Access:	Read/Write	DINT	Decimal
Position2SP External Access:	Read/Write	DINT	Decimal
Position3SP External Access:	Read/Write	DINT	Decimal
Position4SP External Access:	Read/Write	DINT	Decimal
Position5SP External Access:	Read/Write	DINT	Decimal
Position6SP External Access:	Read/Write	DINT	Decimal
Delay0_1 External Access:	Read/Write	DINT	Decimal
Delay1_2 External Access:	Read/Write	DINT	Decimal
Delay2_3 External Access:	Read/Write	DINT	Decimal
Delay3_4 External Access:	Read/Write	DINT	Decimal
Delay4_5 External Access:	Read/Write	DINT	Decimal
Delay5_6 External Access:	Read/Write	DINT	Decimal
Delay6_5 External Access:	Read/Write	DINT	Decimal
Delay5_4 External Access:	Read/Write	DINT	Decimal
Delay4_3 External Access:	Read/Write	DINT	Decimal

Delay3_2		DINT	Decimal
External Access:	Read/Write		
Delay2_1		DINT	Decimal
External Access:	Read/Write		
Delay1_0		DINT	Decimal
External Access:	Read/Write		

Data type Name: LL_Status

Description:

Size: 128 byte(s)

Name	Value	Data Type	Style
AlternationMode External Access:	Read/Write	DINT	Decimal
AlternationPRE External Access:	Read/Write	DINT	Decimal
AlternationACC External Access:	Read/Write	DINT	Decimal
Position1SP External Access:	Read/Write	DINT	Decimal
Position2SP External Access:	Read/Write	DINT	Decimal
Position3SP External Access:	Read/Write	DINT	Decimal
Position4SP External Access:	Read/Write	DINT	Decimal
Position5SP External Access:	Read/Write	DINT	Decimal
Position6SP External Access:	Read/Write	DINT	Decimal
Position1 External Access:	Read/Write	DINT	Decimal
Position2 External Access:	Read/Write	DINT	Decimal
Position3 External Access:	Read/Write	DINT	Decimal
Position4 External Access:	Read/Write	DINT	Decimal
Position5 External Access:	Read/Write	DINT	Decimal
Position6 External Access:	Read/Write	DINT	Decimal
Delay0_1 External Access:	Read/Write	DINT	Decimal
Delay1_2 External Access:	Read/Write	DINT	Decimal
Delay2_3 External Access:	Read/Write	DINT	Decimal
Delay3_4 External Access:	Read/Write	DINT	Decimal

Delay4_5		DINT	Decimal
External Access:	Read/Write		
Delay5_6		DINT	Decimal
External Access:	Read/Write		
Delay6_5		DINT	Decimal
External Access:	Read/Write		
Delay5_4		DINT	Decimal
External Access:	Read/Write		
Delay4_3		DINT	Decimal
External Access:	Read/Write		
Delay3_2		DINT	Decimal
External Access:	Read/Write		
Delay2_1		DINT	Decimal
External Access:	Read/Write		
Delay1_0		DINT	Decimal
External Access:	Read/Write		
NextCall		DINT	Decimal
External Access:	Read/Write		
NextCallCountDown		DINT	Decimal
External Access:	Read/Write		
NextCalled		DINT	Decimal
External Access:	Read/Write		
CalledCount		DINT	Decimal
External Access:	Read/Write		
ReadyCount		DINT	Decimal
External Access:	Read/Write		

Data type Name: OSC_Control

Description:

Size: 4 byte(s)

Name	Value	Data Type	Style
HMIAuto External Access:	Read/Write	BOOL	Decimal
HMIManual External Access:	Read/Write	BOOL	Decimal
HMIOpen External Access:	Read/Write	BOOL	Decimal
HMIStop External Access:	Read/Write	BOOL	Decimal
HMIClose External Access:	Read/Write	BOOL	Decimal

Data type Name: OSC_Status

Description:

Size: 4 byte(s)

Name	Value	Data Type	Style
EnableIn External Access:	Read/Write	BOOL	Decimal
HMIAuto External Access:	Read/Write	BOOL	Decimal
AutoOpen External Access:	Read/Write	BOOL	Decimal
AutoStop External Access:	Read/Write	BOOL	Decimal
AutoClose External Access:	Read/Write	BOOL	Decimal
OpenCmd External Access:	Read/Write	BOOL	Decimal
StopCmd External Access:	Read/Write	BOOL	Decimal
CloseCmd External Access:	Read/Write	BOOL	Decimal

Data type Name: RH_Control

Description:

Size: 16 byte(s)

Name	Value	Data Type	Style
TotalHours External Access:	Read/Write	DINT	Decimal
TodaysHours External Access:	Read/Write	DINT	Decimal
TotalStarts External Access:	Read/Write	DINT	Decimal
TodaysStarts External Access:	Read/Write	DINT	Decimal

Data type Name: RH_Status

Description:

Size: 84 byte(s)

Name	Value	Data Type	Style
EnableIn External Access:	Read/Write	BOOL	Decimal
TotalHours External Access:	Read/Write	DINT	Decimal
TodaysHours External Access:	Read/Write	DINT	Decimal
YesterdaysHours External Access:	Read/Write	DINT	Decimal
LastStartDate External Access:	Read/Write	DINT	Decimal
LastStartTime External Access:	Read/Write	DINT	Decimal
LastStopDate External Access:	Read/Write	DINT	Decimal
LastStopTime External Access:	Read/Write	DINT	Decimal
TotalStarts External Access:	Read/Write	DINT	Decimal
TodaysStarts External Access:	Read/Write	DINT	Decimal
YesterdaysStarts External Access:	Read/Write	DINT	Decimal
StartsPerHour External Access:	Read/Write	DINT	Decimal
HourSP External Access:	Read/Write	DINT	Decimal
MinuteSP External Access:	Read/Write	DINT	Decimal
Maint1Hours External Access:	Read/Write	DINT	Decimal
Maint2Hours External Access:	Read/Write	DINT	Decimal
Maint3Hours External Access:	Read/Write	DINT	Decimal
Maint1SP External Access:	Read/Write	DINT	Decimal
Maint2SP External Access:	Read/Write	DINT	Decimal

Maint3SP		DINT	Decimal
External Access:	Read/Write		
Maint1Done		BOOL	Decimal
External Access:	Read/Write		
Maint2Done		BOOL	Decimal
External Access:	Read/Write		
Maint3Done		BOOL	Decimal
External Access:	Read/Write		

Data type Name: SCP_Control

Description:

Size: 28 byte(s)

Name	Value	Data Type	Style
Input External Access:	Read/Write	REAL	Float
InputMax External Access:	Read/Write	REAL	Float
InputMin External Access:	Read/Write	REAL	Float
OutputMax External Access:	Read/Write	REAL	Float
OutputMin External Access:	Read/Write	REAL	Float
Output External Access:	Read/Write	REAL	Float
ClampMax External Access:	Read/Write	BOOL	Decimal
UnclampMax External Access:	Read/Write	BOOL	Decimal
ClampMin External Access:	Read/Write	BOOL	Decimal
UnclampMin External Access:	Read/Write	BOOL	Decimal

Data type Name: SCP_Status

Description:

Size: 28 byte(s)

Name	Value	Data Type	Style
Input External Access:	Read/Write	REAL	Float
InputMax External Access:	Read/Write	REAL	Float
InputMin External Access:	Read/Write	REAL	Float
OutputMax External Access:	Read/Write	REAL	Float
OutputMin External Access:	Read/Write	REAL	Float
Output External Access:	Read/Write	REAL	Float
ClampMax External Access:	Read/Write	BOOL	Decimal
ClampMin External Access:	Read/Write	BOOL	Decimal

Data type Name: SS_Control

Description:

Size: 8 byte(s)

Name	Value	Data Type	Style
HMIAuto External Access:	Read/Write	BOOL	Decimal
HMIManual External Access:	Read/Write	BOOL	Decimal
HMIStart External Access:	Read/Write	BOOL	Decimal
HMIStop External Access:	Read/Write	BOOL	Decimal
RestartPRE External Access:	Read/Write	DINT	Decimal

Data type Name: SS_Status

Description:

Size: 12 byte(s)

Name	Value	Data Type	Style
EnableIn External Access:	Read/Write	BOOL	Decimal
HMIAuto External Access:	Read/Write	BOOL	Decimal
AutoStart External Access:	Read/Write	BOOL	Decimal
StartCmd External Access:	Read/Write	BOOL	Decimal
RestartActive External Access:	Read/Write	BOOL	Decimal
RestartPRE External Access:	Read/Write	DINT	Decimal
RestartTime External Access:	Read/Write	DINT	Decimal

Data type Name: STRING

Description:

Size: 88 byte(s)

Name	Value	Data Type	Style
LEN		DINT	Decimal
External Access:	Read/Write		
DATA		SINT[82]	ASCII
External Access:	Read/Write		

1769 Bus : Local Modules

Local: [0] 1769-L33ER PLC_SH

Type:	1769-L33ER CompactLogix™ 5370 Controller	Parent:	Local
Vendor:	Rockwell Automation/Allen-Bradley	Vendor ID:	1
Slot:	0	Electronic Keying:	Exact Match
Revision:	32.11	Status:	Standby
Module Fault:	Offline	Inhibit Flag	Off

Local: [1] 1769-IQ16/A S1

Type:	1769-IQ16/A 16 Point 24V DC Input, Sink/Source	Parent:	Local
Vendor:	Rockwell Automation/Allen-Bradley	Vendor ID:	1
Slot:	1	Electronic Keying:	Compatible Keying
Revision:	1.1	Status:	Standby
Module Fault:	Offline	Inhibit Flag	Off
Use Unicast:	No		

Local: [2] 1769-IQ16/A S2

Type:	1769-IQ16/A 16 Point 24V DC Input, Sink/Source	Parent:	Local
Vendor:	Rockwell Automation/Allen-Bradley	Vendor ID:	1
Slot:	2	Electronic Keying:	Compatible Keying
Revision:	1.1	Status:	Standby
Module Fault:	Offline	Inhibit Flag	Off
Use Unicast:	No		

Local: [3] 1769-OW8I/B S3

Type:	1769-OW8I/B 8 Point Isolated AC/DC Relay Output	Parent:	Local
Vendor:	Rockwell Automation/Allen-Bradley	Vendor ID:	1
Slot:	3	Electronic Keying:	Compatible Keying
Revision:	2.1	Status:	Standby
Module Fault:	Offline	Inhibit Flag	Off
Use Unicast:	No		

Module Defined Configuration Tag	Value	Data Type
Local:3:C		AB:1769_DO8:C:0
.Config	2#0000_0000_0000_0000	INT
.ProgToFaultEn	0	BOOL
.ProgMode	2#0000_0000	SINT
.ProgValue	2#0000_0000	SINT
.FaultMode	2#0000_0000	SINT
.FaultValue	2#0000_0000	SINT

Local: [4] 1769-OW8I/B S4

Type:	1769-OW8I/B 8 Point Isolated AC/DC Relay Output	Parent:	Local
Vendor:	Rockwell Automation/Allen-Bradley	Vendor ID:	1
Slot:	4	Electronic Keying:	Compatible Keying
Revision:	2.1	Status:	Standby
Module Fault:	Offline	Inhibit Flag	Off
Use Unicast:	No		

Module Defined Configuration Tag	Value	Data Type
Local:4:C		AB:1769_DO8:C:0
.Config	2#0000_0000_0000_0000	INT
.ProgToFaultEn	0	BOOL
.ProgMode	2#0000_0000	SINT
.ProgValue	2#0000_0000	SINT
.FaultMode	2#0000_0000	SINT
.FaultValue	2#0000_0000	SINT


Local: [5] 1769-IF8/A S5

Type:	1769-IF8/A 8 Channel Current/Voltage Analog Input	Parent:	Local
Vendor:	Rockwell Automation/Allen-Bradley	Vendor ID:	1
Slot:	5	Electronic Keying:	Compatible Keying
Revision:	2.1	Status:	Standby
Module Fault:	Offline	Inhibit Flag	Off
Use Unicast:	No		

Module Defined Configuration Tag	Value	Data Type
Local:5:C		AB:1769_IF8:C:0
.RTSInterval	100	INT
.RTSEn	0	BOOL
.Ch0Filter	0	SINT
	0	BOOL
.Ch0AlarmInterruptEn		
.Ch0AlarmLatchEn	0	BOOL
.Ch0AlarmEn	0	BOOL
.Ch0En	1	BOOL
.Ch0Range	5	SINT
.Ch0DataFormat	1	SINT
.Ch0HAlarmLimit	0	INT
.Ch0LAlarmLimit	0	INT
	0	INT
.Ch0AlarmDeadband		
.Ch1Filter	0	SINT
	0	BOOL
.Ch1AlarmInterruptEn		
.Ch1AlarmLatchEn	0	BOOL
.Ch1AlarmEn	0	BOOL
.Ch1En	1	BOOL
.Ch1Range	5	SINT
.Ch1DataFormat	1	SINT
.Ch1HAlarmLimit	0	INT
.Ch1LAlarmLimit	0	INT
	0	INT
.Ch1AlarmDeadband		
.Ch2Filter	0	SINT
	0	BOOL
.Ch2AlarmInterruptEn		
.Ch2AlarmLatchEn	0	BOOL
.Ch2AlarmEn	0	BOOL
.Ch2En	1	BOOL
.Ch2Range	5	SINT
.Ch2DataFormat	1	SINT
.Ch2HAlarmLimit	0	INT
.Ch2LAlarmLimit	0	INT
	0	INT
.Ch2AlarmDeadband		
.Ch3Filter	0	SINT

	0	BOOL
.Ch3AlarmInterruptEn		
.Ch3AlarmLatchEn	0	BOOL
.Ch3AlarmEn	0	BOOL
.Ch3En	1	BOOL
.Ch3Range	5	SINT
.Ch3DataFormat	1	SINT
.Ch3HAlarmLimit	0	INT
.Ch3LAlarmLimit	0	INT
	0	INT
.Ch3AlarmDeadband		
.Ch4Filter	0	SINT
	0	BOOL
.Ch4AlarmInterruptEn		
.Ch4AlarmLatchEn	0	BOOL
.Ch4AlarmEn	0	BOOL
.Ch4En	1	BOOL
.Ch4Range	5	SINT
.Ch4DataFormat	1	SINT
.Ch4HAlarmLimit	0	INT
.Ch4LAlarmLimit	0	INT
	0	INT
.Ch4AlarmDeadband		
.Ch5Filter	0	SINT
	0	BOOL
.Ch5AlarmInterruptEn		
.Ch5AlarmLatchEn	0	BOOL
.Ch5AlarmEn	0	BOOL
.Ch5En	1	BOOL
.Ch5Range	5	SINT
.Ch5DataFormat	1	SINT
.Ch5HAlarmLimit	0	INT
.Ch5LAlarmLimit	0	INT
	0	INT
.Ch5AlarmDeadband		
.Ch6Filter	0	SINT
	0	BOOL
.Ch6AlarmInterruptEn		
.Ch6AlarmLatchEn	0	BOOL
.Ch6AlarmEn	0	BOOL
.Ch6En	1	BOOL
.Ch6Range	5	SINT
.Ch6DataFormat	1	SINT
.Ch6HAlarmLimit	0	INT
.Ch6LAlarmLimit	0	INT
	0	INT
.Ch6AlarmDeadband		
.Ch7Filter	0	SINT
	0	BOOL
.Ch7AlarmInterruptEn		
.Ch7AlarmLatchEn	0	BOOL
.Ch7AlarmEn	0	BOOL
.Ch7En	1	BOOL
.Ch7Range	5	SINT
.Ch7DataFormat	1	SINT
.Ch7HAlarmLimit	0	INT
.Ch7LAlarmLimit	0	INT
	0	INT
.Ch7AlarmDeadband		

Ethernet : Local Modules

 <EDS not registered> VFD1104

Type: Parent: Local

Vendor:		Vendor ID:	68
IP Address or Host	192.168.42.42	Electronic Keying:	Compatible Keying
Name:			
Revision:	1.1	Status:	Standby
Module Fault:	Offline	Inhibit Flag	On
RPI:	20 ms	Input Type:	Unicast
Input Trigger:	Cyclic	Use Unicast:	n/a

 <EDS not registered> VFD1204

Type:		Parent:	Local
Vendor:		Vendor ID:	68
IP Address or Host	192.168.42.43	Electronic Keying:	Compatible Keying
Name:			
Revision:	1.1	Status:	Standby
Module Fault:	Offline	Inhibit Flag	On
RPI:	20 ms	Input Type:	Unicast
Input Trigger:	Cyclic	Use Unicast:	n/a

PLC_SH

- Project Tag Listing1
- Controller Organizer Listing.....126
- Controller Properties Listing129
- Controller Tag Listing130

MainTask

- Task Properties Listing255

MainProgram

- Program Properties Listing256
- Program Tag Listing.....257

MainRoutine

- Ladder Diagram258
- Routine Tag Listing.....260
- Routine Properties Listing265

PLCFault

- Ladder Diagram266
- Routine Tag Listing.....267
- Routine Properties Listing268

Communications

- Ladder Diagram269
- Routine Tag Listing.....277
- Routine Properties Listing305

L0000_Intrusion

- Ladder Diagram306
- Routine Tag Listing.....307
- Routine Properties Listing309

L0000_Power

- Ladder Diagram310
- Routine Tag Listing.....312
- Routine Properties Listing318

L1100_PressControl

- Ladder Diagram319
- Routine Tag Listing.....323
- Routine Properties Listing336

L1101_SHT1_ControlValve

- Ladder Diagram337
- Routine Tag Listing.....340
- Routine Properties Listing345

L1101_SHT1_Level

- Ladder Diagram346
- Routine Tag Listing.....348
- Routine Properties Listing352

L1102_SHT1_BlanketLevel

- Ladder Diagram353
- Routine Tag Listing.....355
- Routine Properties Listing359

L1104_SludgeFeedPump1_VFD

- Ladder Diagram360
- Routine Tag Listing.....367
- Routine Properties Listing387

L1201_SHT2_ControlValve

- Ladder Diagram388
- Routine Tag Listing.....391
- Routine Properties Listing396

L1204_SludgeFeedPump2_VFD

- Ladder Diagram397
- Routine Tag Listing.....402
- Routine Properties Listing420

L2101_Press1_SludgeValve

- Ladder Diagram421
- Routine Tag Listing.....424
- Routine Properties Listing429

L2106_ScrewPressConveyor1

- Ladder Diagram430

Routine Tag Listing	433
Routine Properties Listing	439
L2201_Press2_SludgeValve	
Ladder Diagram	440
Routine Tag Listing	443
Routine Properties Listing	448
L2206_ScrewPressConveyor2	
Ladder Diagram	449
Routine Tag Listing	452
Routine Properties Listing	458
L3101_AerationBlower1_VFD	
Ladder Diagram	459
Routine Tag Listing	464
Routine Properties Listing	480
L3103_AerBlower_Pressure	
Ladder Diagram	481
Routine Tag Listing	483
Routine Properties Listing	487
L3201_AerationBlower2_VFD	
Ladder Diagram	488
Routine Tag Listing	493
Routine Properties Listing	509
Add-On Instruction Signature Listing	
Add-On Instructions	
ALRM	
Instruction Definition	511
Parameter Listing	514
Local Tag Listing	517
Logic Routine	519
EnableInFalse Routine	523
Instruction Definition	527
Parameter Listing	530
Local Tag Listing	533
Logic Routine	535
EnableInFalse Routine	539
CODEMUX	
Instruction Definition	543
Parameter Listing	545
Local Tag Listing	548
Logic Routine	549
EnableInFalse Routine	553
DG1	
Instruction Definition	557
Parameter Listing	561
Local Tag Listing	569
Logic Routine	572
EnableInFalse Routine	580
FSR	
Instruction Definition	588
Parameter Listing	590
Local Tag Listing	592
Logic Routine	595
EnableInFalse Routine	599
HEART	
Instruction Definition	602
Parameter Listing	603
Local Tag Listing	604
Logic Routine	605
EnableInFalse Routine	607
LL	
Instruction Definition	609
Parameter Listing	613
Local Tag Listing	622
Logic Routine	632

EnableInFalse Routine.....	708
OSC	
Instruction Definition	714
Parameter Listing.....	716
Local Tag Listing	718
Logic Routine	720
EnableInFalse Routine.....	723
RH	
Instruction Definition	725
Parameter Listing.....	727
Local Tag Listing	731
Logic Routine	737
EnableInFalse Routine.....	748
SCP	
Instruction Definition	755
Parameter Listing.....	757
Local Tag Listing	759
Logic Routine	761
EnableInFalse Routine.....	764
SS	
Instruction Definition	766
Parameter Listing.....	768
Local Tag Listing	770
Logic Routine	772
EnableInFalse Routine.....	775
Data Types	
User-Defined Data Type	777
Strings.....	802
Module Properties	
1769 Bus : Local Modules	803
Ethernet : Local Modules	805

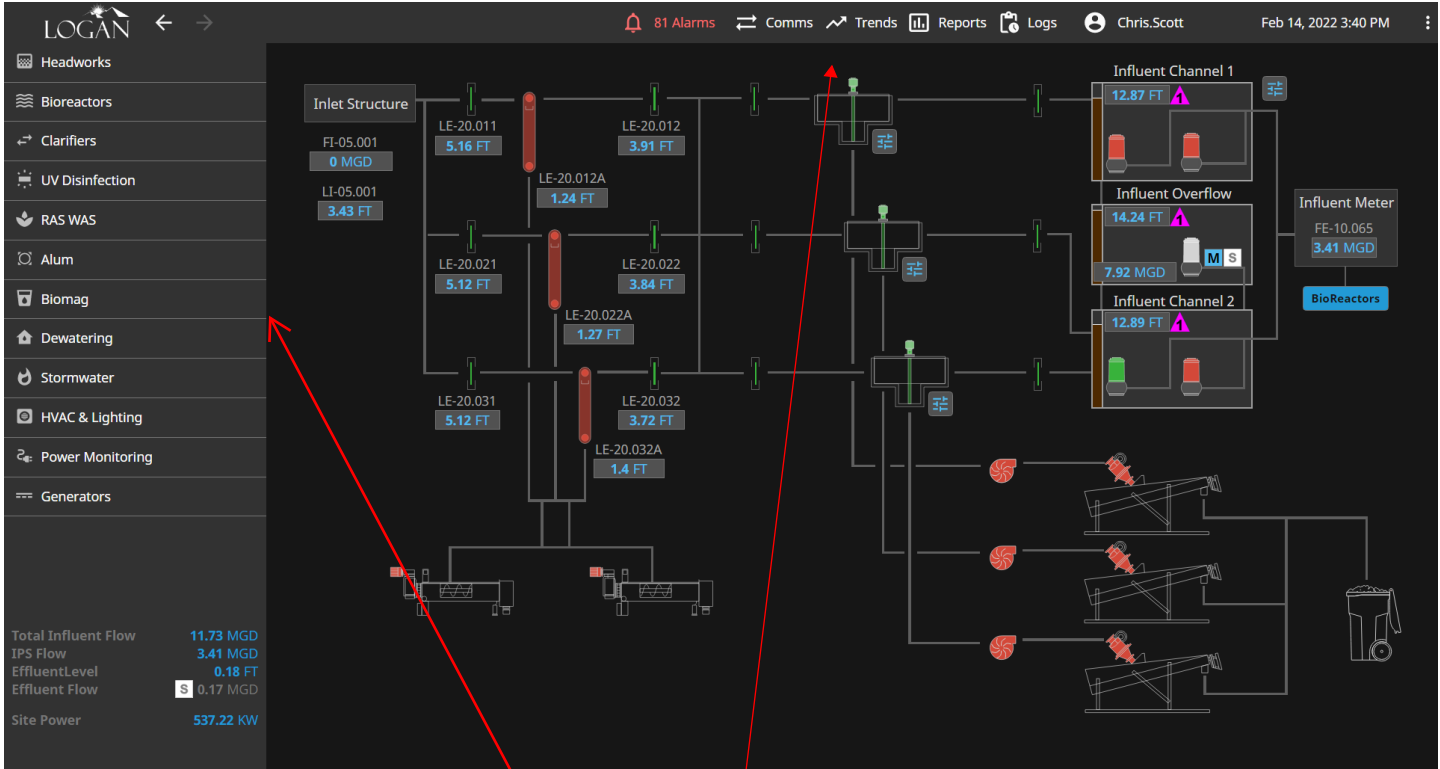
Logan SCADA

Click the User to Log in and to sign out

Settings Menu to access light and dark mode

2

1



3

Navigation Bars

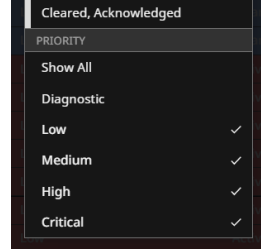
Alarms Page

Total number of Alarms that have not been acknowledged 1

You can search for key words in the Alarm history. Clicking on the magnifying glass will bring up a search field. Up and down arrows are at the top of each Column so you can prioritize the order of the search results.

The screenshot shows an Alarms Page with a top navigation bar containing '82 Alarms', 'Comms', 'Trends', 'Reports', 'Logs', and a user profile for 'Chris.Scott'. Below the navigation bar, there are filter tabs for 'Active, Unacknowledged', 'Active, Acknowledged', 'Cleared, Unacknowledged', and 'Priority' levels (Low, Medium, High, Critical). A search icon is visible in the top right corner. The main content area displays a table of 115 results within filters. The table has columns for 'Active Time', 'Display Path', 'Priority', 'State', 'Source', and 'Name'. Each column header has a small arrow icon indicating it is sortable. The table lists various alarms with their timestamps, display paths, priorities, states, and sources. At the bottom of the table, there is a '100 rows' dropdown and a 'Notification Config' button.

Active Time	Display Path	Priority	State	Source	Name
02/14/2022 15:58:28	BIOMAG - MD-70.310 Magdrum 1 Failed to ...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_310_Magdr...	Start
02/14/2022 13:40:02	RAS - PCM-RAS PLC Panel Intrusion Alarm	Low	Cleared, Unacknowl...	prov:default/tag:RAS/L70_910_PCM_RAS/L...	PCM-RAS PLC Pa...
02/14/2022 11:47:13	BR - NP-BR Panel Intrusion Alarm	Low	Cleared, Unacknowl...	prov:default/tag:BR/L96_920_NP_BR/INTR...	NP-BR Panel I...
02/14/2022 10:03:23	BR - Bioreactor 2 Splitter Gate Fail To Open ...	Low	Active, Unacknowle...	prov:default/tag:BR/L40_200_Bio2_Splitter...	Bioreactor 2 Spli...
02/12/2022 19:16:42	TROJAN - UV Low UVT	Low	Active, Unacknowle...	prov:default/tag:UV/L60_100_Trojan_UV/L...	UV Low UVT
02/12/2022 10:24:04	BIOMAG - LSH-70.340-1 Magdrum 4 Foam L...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_340_Magdr...	LSH-70.340-1 M...
02/12/2022 10:24:04	BIOMAG - LSH-70.340-2 Magdrum 4 Water ...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_340_Magdr...	LSH-70.340-2 M...
02/11/2022 13:17:06	BIOMAG - LSH-70.320-1 Magdrum 2 Foam L...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_320_Magdr...	LSH-70.320-1 M...
02/11/2022 13:17:06	BIOMAG - LSH-70.320-2 Magdrum 2 Water ...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_320_Magdr...	LSH-70.320-2 M...
02/10/2022 14:07:22	RAS - Alum Tank 2 Level High Alarm	Low	Active, Unacknowle...	prov:default/tag:RAS/L70_820_Alum_Tank2...	Alum Tank 2 Lev...
02/10/2022 14:07:22	RAS - Alum Tank 2 Level High High Alarm	Low	Active, Unacknowle...	prov:default/tag:RAS/L70_820_Alum_Tank2...	Alum Tank 2 Lev...
02/10/2022 00:38:04	BIOMAG - SM-70.230 - Shear Mill 3 Failed	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_230_Shear_...	SM-70.230 - She...
02/10/2022 00:38:04	BIOMAG - PSL-70.129 Compactor Spray Lo...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_126_Compa...	PSL-70.129 Com...
02/10/2022 00:38:04	BIOMAG - PSL-70.128 Sludge Screen Extern...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_125_Screen_...	PSL-70.128 Slud...
02/10/2022 00:38:04	BIOMAG - SM-70.210 - Shear Mill 1 Failed	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_210_Shear_...	SM-70.210 - She...
02/10/2022 00:38:03	BIOMAG - 70.758 Magnetite Hopper Low W...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_758_Magne...	70.758 Magnetit...
02/09/2022 15:26:58	TROJAN - Channel 1 Bank 1A Wiper Not In ...	Low	Active, Unacknowle...	prov:default/tag:UV/L60_100_Trojan_UV/U...	Channel 1 Bank ...
02/09/2022 15:26:58	TROJAN - UV UVT Below Design Value	Low	Active, Unacknowle...	prov:default/tag:UV/L60_100_Trojan_UV/U...	UV UVT Below D...
02/09/2022 15:26:58	TROJAN - Channel 1 Bank 1C Not In Place	Low	Active, Unacknowle...	prov:default/tag:UV/L60_100_Trojan_UV/U...	Channel 1 Bank ...
02/09/2022 15:26:58	TROJAN - Channel 1 Bank 1B Wiper Not In ...	Low	Active, Unacknowle...	prov:default/tag:UV/L60_100_Trojan_UV/U...	Channel 1 Bank ...



Number of Alarms currently shelved
5

Clicking on the 3 bars pulls up filters based on current Alarm status



64 ACTIVE 0 SHELVED

FILTERS (7): Active, Unacknowledged x Active, Acknowledged x Cleared, Unacknowledged x Priority: Low x Priority: Medium x Priority: High x Priority: Critical x Remove All

115 results within filters

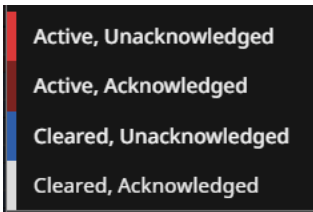
Active Time	Display Path	Priority	State	Source	Name
02/15/2022 10:48:31	BIOMAG - SM-70.230 - Shear Mill 3 Failed	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_230_Shear_...	SM-70.230 - She...
02/14/2022 15:58:28	BIOMAG - MD-70.310 Magdrum 1 Failed to ...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_310_Magdr...	Start
02/14/2022 13:40:02	RAS - PCM-RAS PLC Panel Intrusion Alarm	Low	Cleared, Unacknowl...	prov:default/tag:RAS/L70_910_PCM_RAS/L...	PCM-RAS PLC Pa...
02/14/2022 11:47:13	BR - NP-BR Panel Intrusion Alarm	Low	Cleared, Unacknowl...	prov:default/tag:BR/L96_920_NP_BR/INTR...	NP-BR Panel Int...
02/14/2022 10:03:23	BR - Bioreactor 2 Splitter Gate Fail To Open ...	Low	Active, Unacknowle...	prov:default/tag:BR/L40_200_Bio2_Splitter...	Bioreactor 2 Spli...
02/12/2022 19:16:42	TROJAN - UV Low UVT	Low	Active, Unacknowle...	prov:default/tag:UV/L60_100_Trojan_UV/L...	UV Low UVT
02/12/2022 10:24:04	BIOMAG - LSH-70.340-1 Magdrum 4 Foam L...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_340_Magdr...	LSH-70.340-1 M...
02/12/2022 10:24:04	BIOMAG - LSH-70.340-2 Magdrum 4 Water ...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_340_Magdr...	LSH-70.340-2 M...
02/11/2022 13:17:06	BIOMAG - LSH-70.320-1 Magdrum 2 Foam L...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_320_Magdr...	LSH-70.320-1 M...
02/11/2022 13:17:06	BIOMAG - LSH-70.320-2 Magdrum 2 Water ...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_320_Magdr...	LSH-70.320-2 M...
02/10/2022 14:07:22	RAS - Alum Tank 2 Level High Alarm	Low	Active, Unacknowle...	prov:default/tag:RAS/L70_820_Alum_Tank2_...	Alum Tank 2 Lev...
02/10/2022 14:07:22	RAS - Alum Tank 2 Level High High Alarm	Low	Active, Unacknowle...	prov:default/tag:RAS/L70_820_Alum_Tank2_...	Alum Tank 2 Lev...
02/10/2022 10:48:31	BIOMAG - SM-70.210 - Shear Mill 1 Failed	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_210_Shear_...	SM-70.210 - She...
02/10/2022 00:38:04	BIOMAG - PSL-70.128 Sludge Screen Extern...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_128_Sludge_...	PSL-70.128 Sludg...
02/10/2022 00:38:04	BIOMAG - PSL-70.129 Compactor Spray Lo...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_129_Compact...	PSL-70.129 Comp...
02/10/2022 00:38:03	BIOMAG - 70.758 Magnetite Hopper Low W...	Low	Active, Unacknowle...	prov:default/tag:BIOMAG/L70_758_Magnet...	70.758 Magnetite...
02/09/2022 15:26:58	TROJAN - UV UVT Below Design Value	Low	Active, Unacknowle...	prov:default/tag:UV/L60_100_Trojan_UV/L...	UV UVT Below De...
02/09/2022 15:26:58	TROJAN - Channel 1 Bank 1C Not In Place	Low	Active, Unacknowle...	prov:default/tag:UV/L60_100_Trojan_UV/L...	Channel 1 Bank 1...

100 rows

Shelve the selected alarms for:
5 minutes
15 minutes
30 minutes
1 hour
2 hours
4 hours

Shelve Acknowledge

If there are alarms that are reoccurring frequently, an operator may select that alarm and shelve it. When you click on the Shelve button it will have you select a frame that the alarm will be shelved. This will stop the alarm from showing up in the active alarm table.



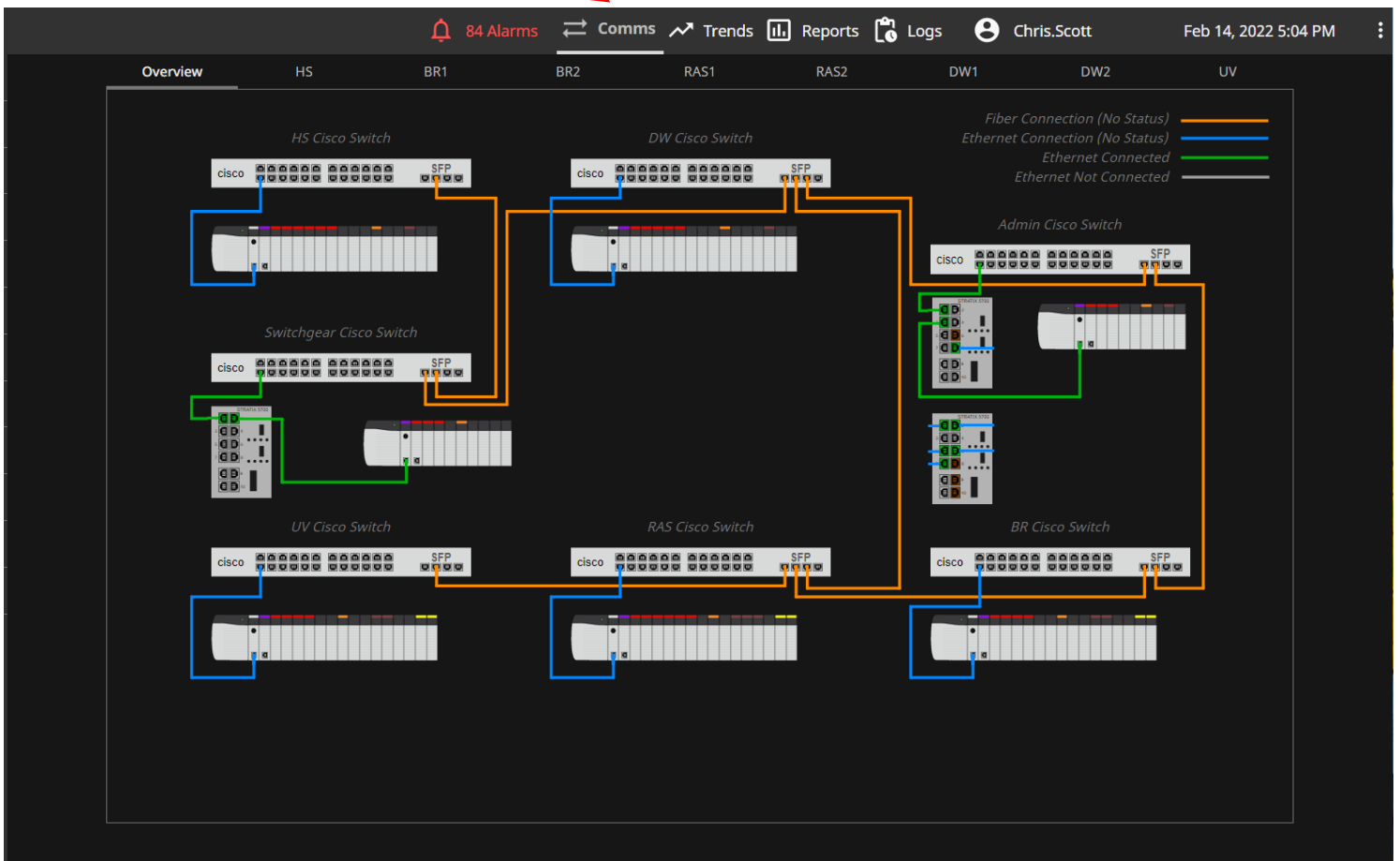
7

Alarms in the table are assigned a specific color based on their current status.

To acknowledge and alarm first select the active alarm then click on acknowledge

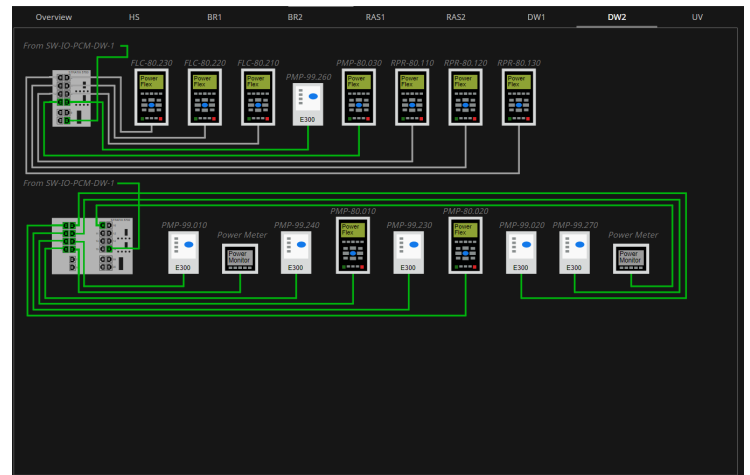
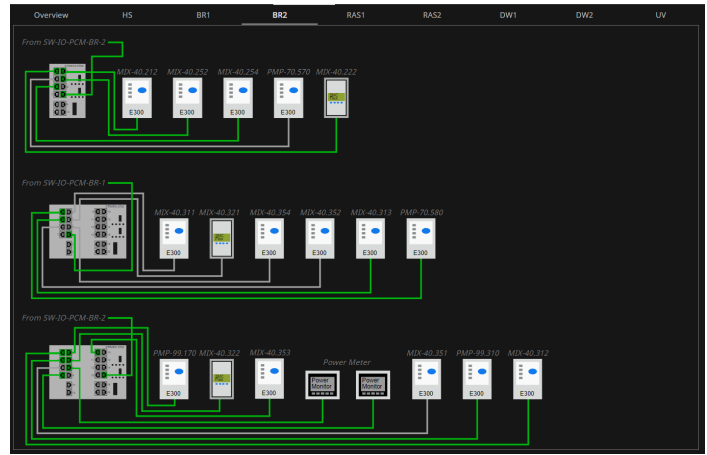
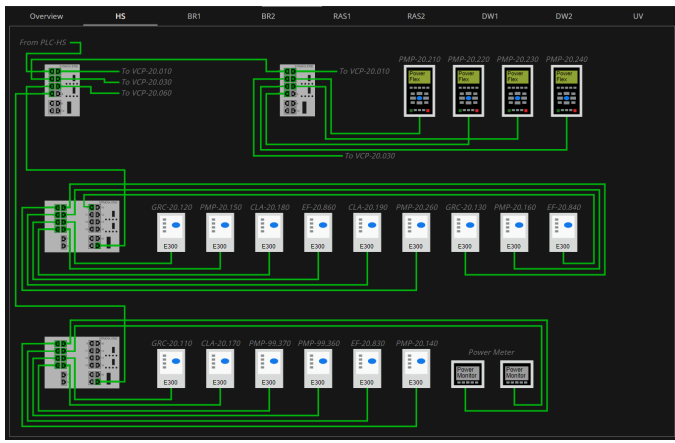


Clicking Comms in the navigation bar brings up the Comms Page



The comms page is networking map. Different types of connections are drawn with different colors. Fiber connections between the different buildings are drawn in orange. The fiber connections are just a mapping of the fiber, they do not display a real time status of the connection. Blue, Green and Gray lines are all Ethernet mapping connections. Green is a real time statuses of the ethernet connection. It means that communication between devices is healthy. If the cable is gray communication has stopped. This could indicate that the cable has been unplugged, broken. It cold also indicate that the network switch or device has a bad network port. Cables that are blue have no real-time status, they are only to map the location of the ethernet cable.

The Comms page is broken up into a site overview and then into each specific building

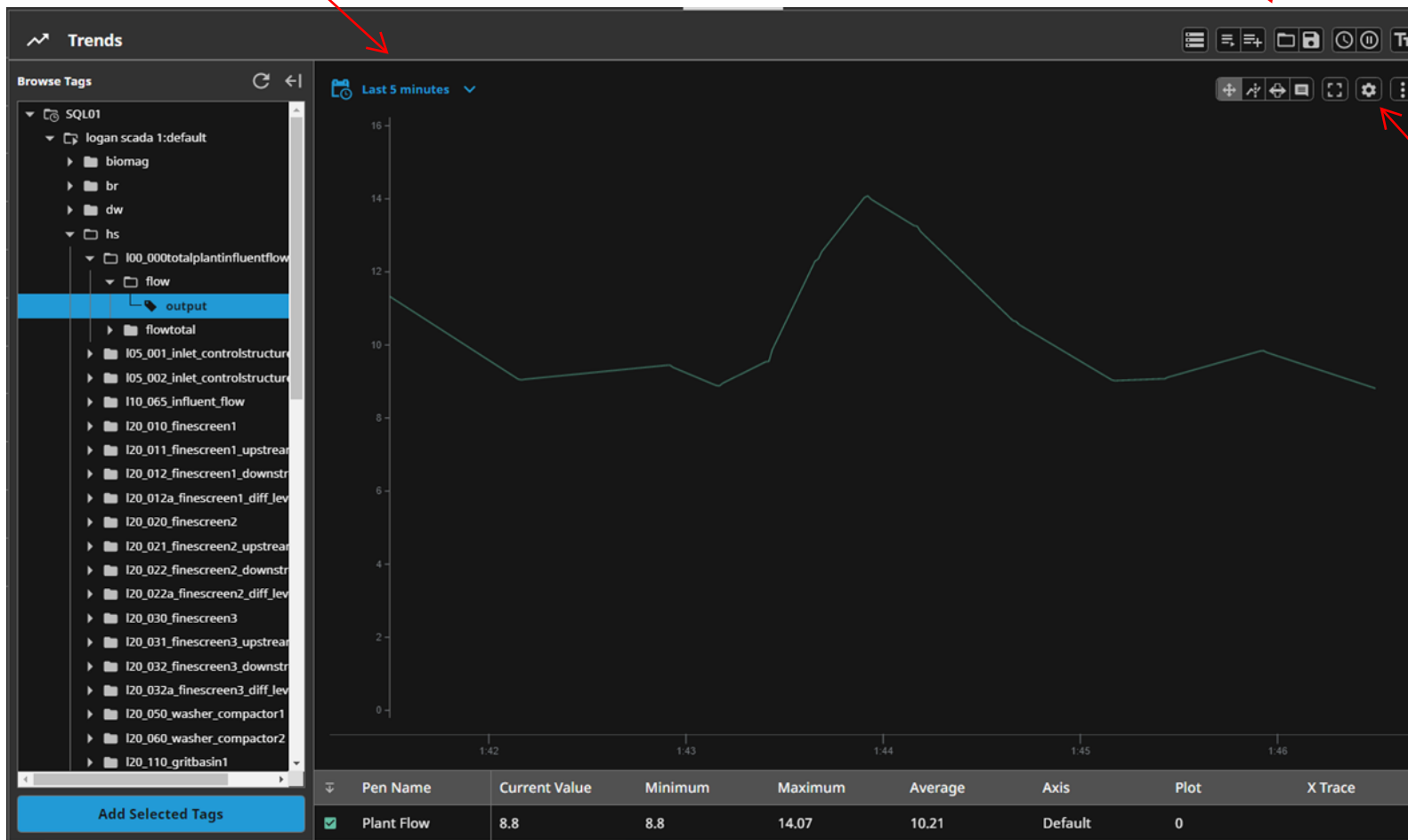


Select a time Range

2

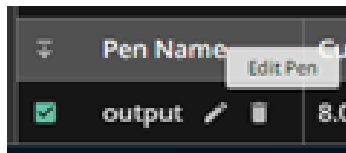
3

Custom trends can be saved and loaded with the with the save and Load Icons located in the top right corner.



5

When a tag is added to the trend it is automatically assigned a pen name. These pen names can be edited by selecting the pencil icon next to the pen name.





By selecting the gear icon in the top Right of the trend will open up the chart settings. In the settings you can customize the trend screen to your liking. Pens can be assigned to there own Plot, Axis can be labeled and colors of the pens can be changed.

Logs Page

TIME STAMP	USER	ACTION	TARGET	VALUE	Begin Date	End Date
					Jan 14, 2022 9:38 AM	Feb 14, 2022 9:38 AM
/13/2022 19:09:11	tim.mcguire	Web Auth Status Change	default	Levels = 'SecurityZones', 'Authenticated/Roles/Operator', 'Authenticated/Roles/Supervisor'		
/13/2022 19:09:11	Unauthenticated	Login Response	http://10.1.141.10:8088/data/federate/callback/ignition?code=q9xpfG4i_UicfyCvMAxUve_jaIV4nclKw5htQ&state=eyjraWQIOjlrMSIsImFsZyI6Ik	Success: received from IdP 'default'		
/13/2022 19:08:52	Unauthenticated	Login Request	/Logan/headworks	Success: redirected to IdP 'default'		
/13/2022 19:08:43	Unauthenticated	Web Auth Status Change	default	Username = 'Unauthenticated', Authorized = 'false', Security Levels = 'SecurityZones'		
/12/2022 18:58:47	madeline.tennant	Web Auth Status Change	default	Username = 'madeline.tennant', Authorized = 'true', Security Levels = 'SecurityZones', 'Authenticated/Roles/Administrator', 'Authenticated/Roles/Engineer', 'Authenticated/Roles/Operator', 'Authenticated/Roles/Supervisor'		
/12/2022 18:58:47	Unauthenticated	Web Auth Status Change	default	Username = 'Unauthenticated', Authorized = 'false', Security Levels = 'SecurityZones'		
/12/2022 18:58:47	Unauthenticated	Login Response	http://10.1.141.10:8088/data/federate/callback/ignition?code=2HmTMKmjppPgDa7ZqjL8tfH0AjCFsBv_dDW6xoUiY3lc&state=eyjraWS2FMix06VJg_c9LDKHOrj_6YR7mdpajeBec	Success: received from IdP 'default'		
/12/2022 18:58:30	Unauthenticated	Login Request	/Logan	Success: redirected to IdP 'default'		
/12/2022 18:58:28	Unauthenticated	Web Auth Status Change	default	Username = 'Unauthenticated', Authorized = 'false', Security Levels = 'SecurityZones'		
/12/2022 18:19:05	tim.mcguire	Web Auth Status Change	default	Username = 'tim.mcguire', Authorized = 'true', Security Levels = 'SecurityZones', 'Authenticated/Roles/Operator', 'Authenticated/Roles/Supervisor'		
/12/2022 18:19:05	Unauthenticated	Login Response	http://10.1.141.10:8088/data/federate/callback/ignition?code=xmdu9qsvCN2HlnIzFblycD7czVc0mzFqilJBwqyMQKY&state=eyjra	Success: received from IdP 'default'		
/12/2022 18:18:55	Unauthenticated	Login Request	/Logan/uv	Success: redirected to IdP 'default'		
/12/2022 18:18:54	Unauthenticated	Web Auth Status Change	default	Username = 'Unauthenticated', Authorized = 'false', Security Levels = 'SecurityZones'		
/12/2022 11:15:11	landon.randall	tag write	[default]BIOMAG/L70_000_System_Controls_Setpoints/UnderflowSolid#6600.0			
/12/2022 11:15:03	landon.randall	tag write	[default]BIOMAG/L70_000_System_Controls_Setpoints/MassToBeWaste#2500.0			
/12/2022 09:36:03	Josh.Horton	tag write	[default]RAS/L70_830_Alum_Pump1/ClarifiersFeedingSP/Output	2.0		

With SCADA, each system change like a button press or a setpoint change is recorded with a time stamp and the user that did the action. The logs page is where you can access this history and see who has been making changes. Filters can be applied to this history table by entering in key words you want to find in the search field. You can also enter in a specific date and time range or give a particular column a sorting priority.

When you click on a device on SCADA like a pump, valve, or motor a side pop out menu will appear. This menu displays status information about the device as well as giving you direct control for that specific device.

The image displays a SCADA interface for 'INFLUENT PUMP 3'. The main screen shows the following status information:

- IN REMOTE
- RUNNING
- START COMMAND
- READY
- NO ALARMS
- INTERLOCKS OK
- 33.43 Hz
- 255.78 V
- 37.87 A
- 9.52 kW

Below the status information are several control buttons:

- RESET
- AUTO (large button)
- MAN (Manual)
- AUTO (Automatic)
- START
- STOP

At the bottom, there is a 'Speed Dev' field set to 3 Hz.

Annotations with red arrows point to various elements:

- 1 Collapse pop out menu (points to the top right arrow)
- 2 Alarm Reset (points to the RESET button)
- 3 Manual, Auto, Stop, and Start Controls. (points to the MAN, AUTO, START, and STOP buttons)
- 4 Speed Deviation Set Point (points to the Speed Dev field)
- 5 Additional Settings (points to the top left menu icon)

On the left side, a partial view of a side pop-out menu is visible, showing options like 'Info' and 'Additional Settings'.

Additional Settings
collapse

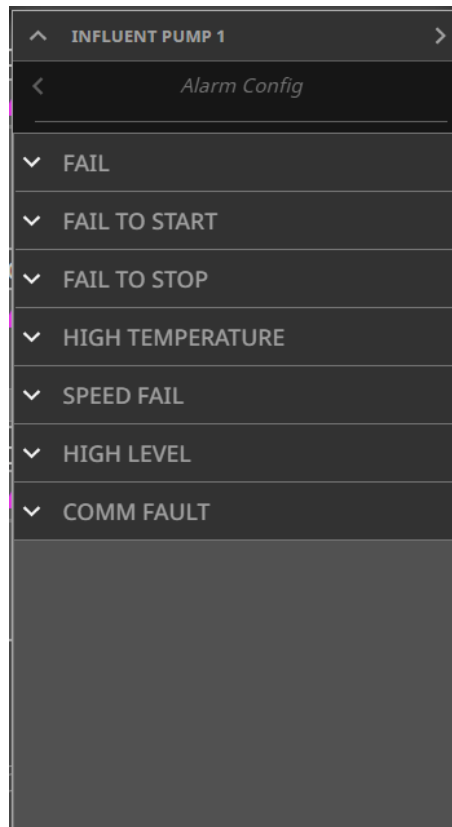
The side pop-out menu shows the following items:

- INFLUENT PUMP 3
- Influent Pump 3
PMP-20.230
- fig
- Info

Annotations with red arrows point to the 'Info' button and the text 'Info will show any information unique to this device.'

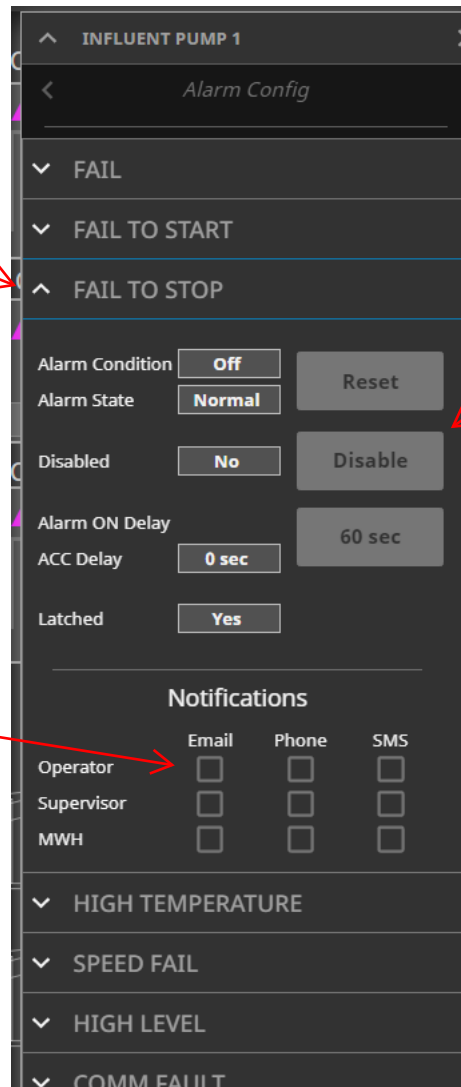
Info will show any information unique to this device.

5.1.1



5.1.2

Each alarm can be expanded and configured separately



5.1.3

Resets an active alarm

5.1.4

Disables the alarm and Alarm notifications

5.1.5

A Timer for how long SCADA will wait before going into Alarm

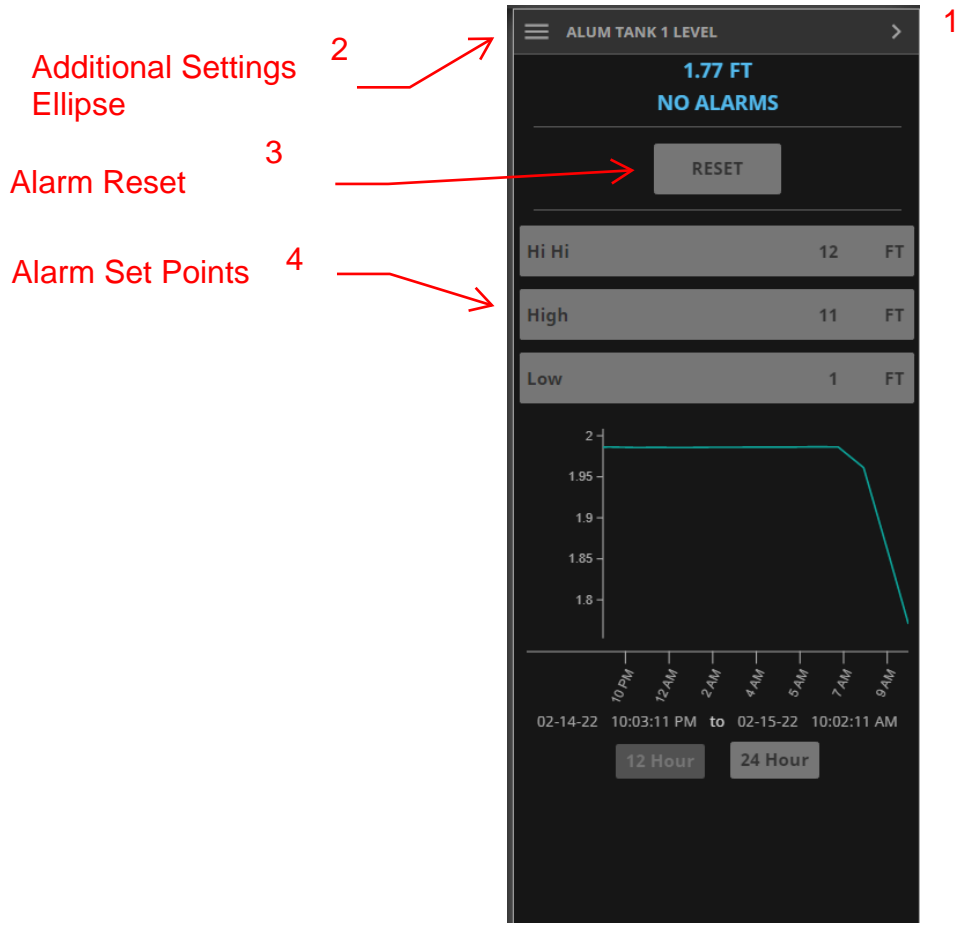
Check boxes are for selecting what users will be notified of the Alarm and what type of notification they will receive.

5.1.6

UV Overview



When you click on measurement display, like for a tank level, Pressure transmitter or Flow meter, you will get the analog controls pop out to appear.



Additional Settings
Ellipse

2

Alarm Reset

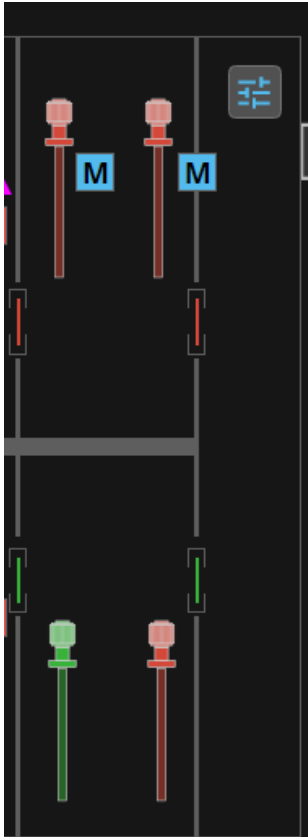
3

Alarm Set Points

4

1

1



A group of devices that all work together will have a common controls button by them. Clicking the Common controls button will bring out a side pop out with the controls for the system

1

UTILITY WATER PUMPS >

Controls	PID	Lead Lag
1	2	3

Control Selection

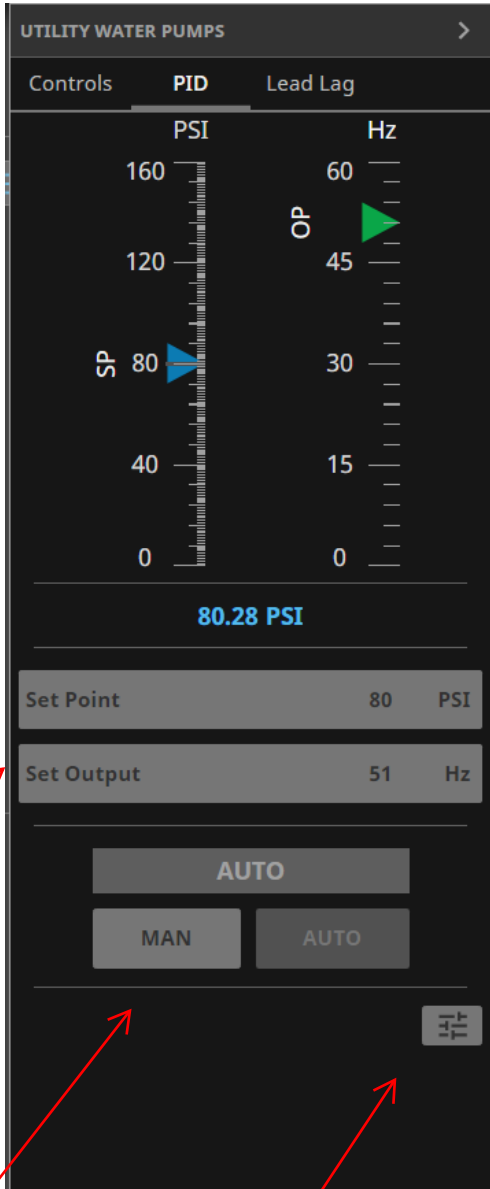
Adding Pumps

Hz Reaches this Add a Pump	59.5	Hz
Initial Starting Speed	55	Hz
Duration	5	SEC

Subtracting Pumps

Hz Reaches this Remove a Pump	50	Hz
Speed after Loss of Pump	56	Hz
Duration	5	SEC

2

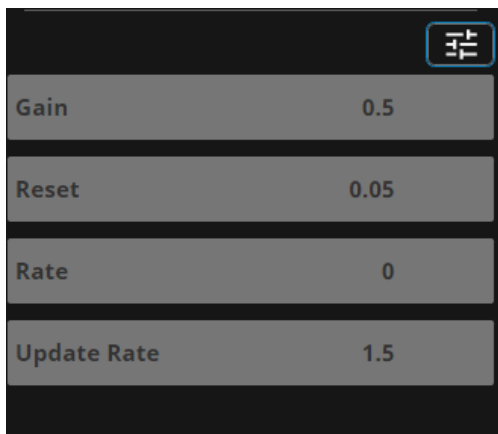


2.1
The Set point is the value the that the PID will try to maintain

2.2
Set Output is the speed command sent out to the motors so it can maintain the PID Setpoint. If the PID is changed from "AUTO" to "MAN" you can enter in your own speed into the Output.

2.3
Manual/Auto Selection. If in MAN speed of the pumps will run at a constant speed. If Auto Is selected, the PID will drive the speed of the pumps.

2.4
The settings tab will open up additional controls for tuning the PID



the LeadLag evaluates with the least amount of the Lead pump.

3.1

s to a stop the LeadLag the one with the least the lead pump.

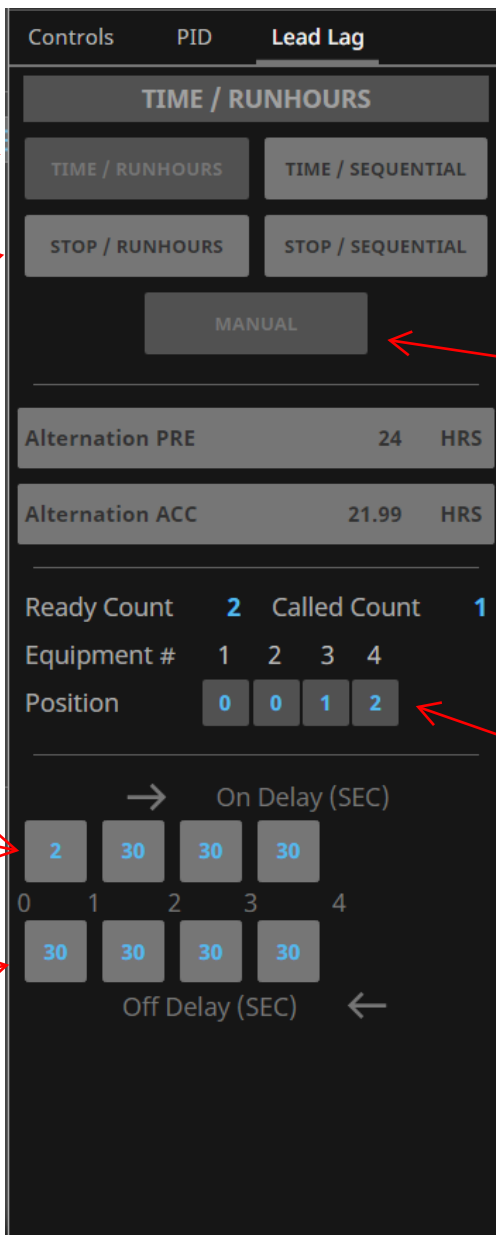
3.2

the LeadLag takes to add an pump to the system

3.9

the LeadLag takes to pump from the system

3.10



3.3

After a set time expires the Le move to the end of the line and second in line will become the

3.4

When the Lead pump comes move to the end of the line and second in line will become the

3.5

Operator set the pump posit never rotates.

3.6

Operator set time for Pumps to rotate position

3.7

Clocks current time.

3.8

Pumps Position assignment

Screw Press 1 Sludge Valve V-2101

Status

Local **NOT IN REMOTE**
 State **CLOSED**
 Command **CLOSE**
 Ready **NOT READY**
 Alarm **OUT OF SERVICE**
 Interlock **OK**

MANUAL

MAN AUTO

OPEN CLOSE



RESET

Screw Press Conveyor 1 M-70-2106

Status

Local **NOT IN REMOTE**
 State **STOPPED**
 Command **STOP**
 Ready **NOT READY**
 Alarm **OUT OF SERVICE**
 Interlock **OK**

Run Hours

Total **0.00**
 Today **0.00**
 Yesterday **0.00**
 Last Start **00/00/0 00:00:00**
 Last Stop **08/11/2022 10:46:31**

Starts

Total **0**
 Today **0**
 Yesterday **0**
 Per Hour **0**

MANUAL

MAN AUTO

FWD REV

STOP



RESET

Exit

Secondary Sludge Pumps

Secondary Sludge Pump 1 P-4 [Loop L406]

Status		Run Hours	
Local	IN REMOTE	Total	9324.69
State	RUNNING	Today	4.01
Command	START	Yesterday	5.40
Ready	READY	Last Start	11/11/2022 15:50:08
Alarm	NO ALARMS	Last Stop	11/11/2022 14:50:07
Interlock	n/a	<u>Starts</u>	
		Total	27756
Current	5.19 A	Today	13
Voltage	5.19 V	Yesterday	18
Frequency	60 Hz	Per Hour	1
Torque	24.29 %		

Secondary Sludge Pump 2 P-5 [Loop L409]

Status		Run Hours	
Local	IN REMOTE	Total	14275.72
State	RUNNING	Today	3.93
Command	START	Yesterday	5.49
Ready	READY	Last Start	11/11/2022 15:50:27
Alarm	NO ALARMS	Last Stop	11/11/2022 14:50:07
Interlock	n/a	<u>Starts</u>	
		Total	44282
Current	10.9 A	Today	13
Voltage	10.9 V	Yesterday	18
Frequency	60 Hz	Per Hour	1
Torque	29.22 %		

AUTO

MAN

AUTO

RESET

START

STOP

Deviation 5.0 Hz

AUTO

MAN

AUTO

RESET

START

STOP

Deviation 5.0 Hz

Press Speed	0	%	
Timer Flow SP	120	GPM	
On Timer SP	22	Min	
On Timer	20.32	Min	
Off Timer SP	58	Min	
Off Timer	0	Min	
	120		

SP

PV

OP

AUTO

MAN

AUTO

↑↓

Timer

Press

Note: Make sure valves are set correctly

Number of Pumps to Run at the Start of Each Cycle

BOTH PUMPS

ONE PUMP

BOTH PUMPS

TIME / SEQUENTIAL

Manual

Time /
Run Hours

Time /
Sequential

Stop /
Run Hours

Stop /
Sequential

Alternation PRE

24

Alternation ACC

17.52

Ready Count

2

Called Count

2

Next Call

Equipment Number

1

2

Position

1

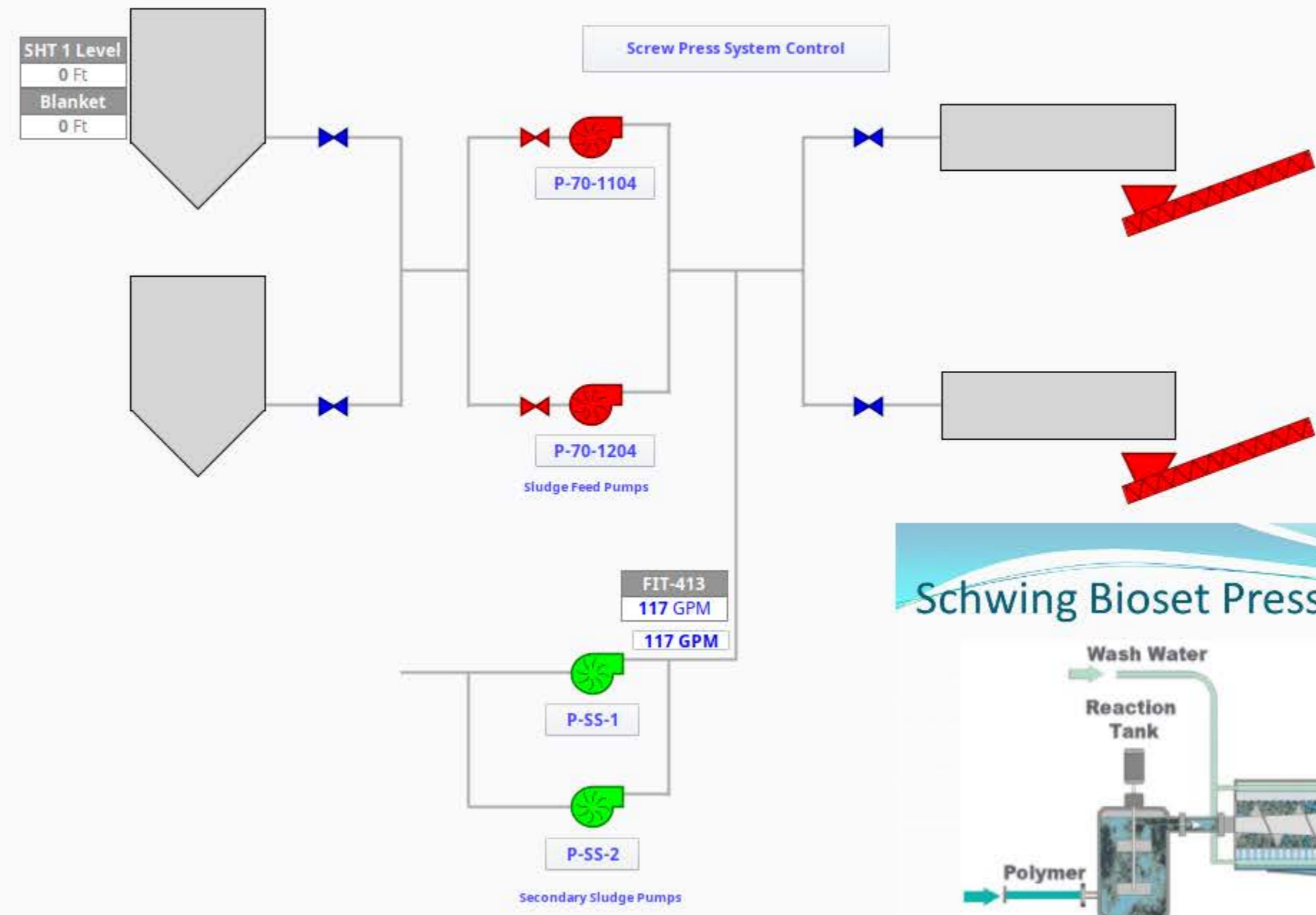
2

⚙️

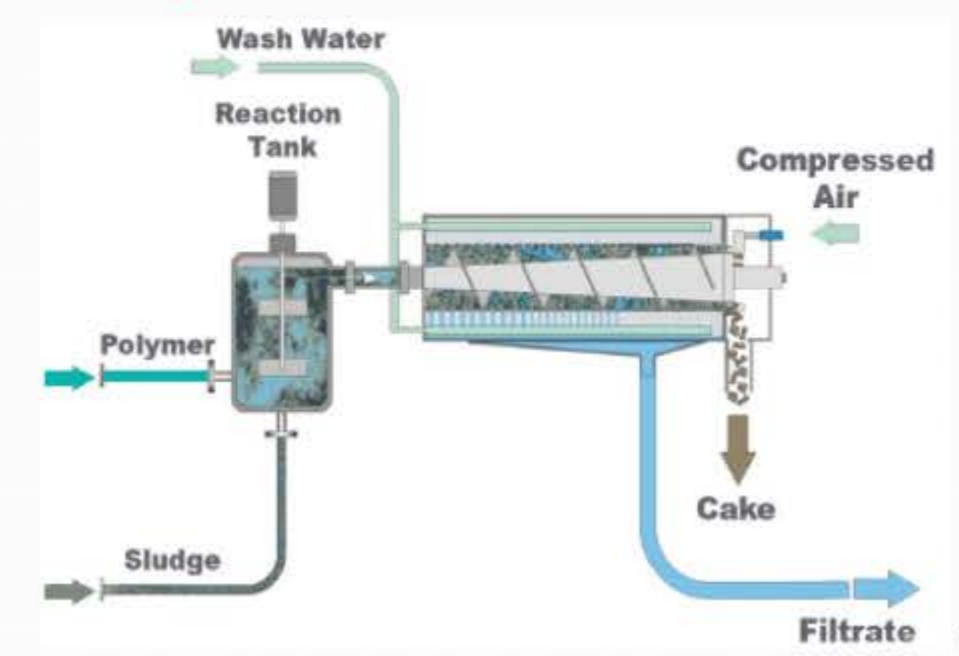
Exit



- Overview
 - Overview
 - 2D Overview
- Primary Treatment
 - Headworks
 - PC Feed Pump Station
 - Primary Sludge Station
- Secondary Treatment
 - Aerotor
 - Sec Sludge Pump Station
 - Intermediate Pump Station
 - Clarifier Gates
- Solids Handling
 - Belt Press
 - Digester Upstairs
 - Digester Downstairs
 - Screw Press**
- Disinfection
 - Chemical Building
- Utility Water
 - Utility Water Pump Station
- Collection
 - Lift Stations



Schwing Bioset Press Flow Schematic



Sludge Feed Pumps

Sludge Feed Pump 1 P-70-1104

Status		Run Hours	
Local	NOT IN REMOTE	Total	0.00
State	STOPPED	Today	0.00
Command	STOP	Yesterday	0.00
Ready	NOT READY	Last Start	00/00/0 00:00:00
Alarm	OUT OF SERVICE	Last Stop	08/11/2022 10:46:31
Interlock	OK	<u>Starts</u>	
Speed	0 Hz	Total	0
		Today	0
		Yesterday	0
		Per Hour	0

MANUAL

MANUAL

MAN

AUTO

MAN

AUTO

RESET

Manual Speed 0.0 Hz

Deviation 50.0 Hz

Sludge Feed Pump 2 P-70-1204

Status		Run Hours	
Local	NOT IN REMOTE	Total	0.00
State	STOPPED	Today	0.00
Command	STOP	Yesterday	0.00
Ready	NOT READY	Last Start	00/00/0 00:00:00
Alarm	OUT OF SERVICE	Last Stop	08/11/2022 10:46:31
Interlock	OK	<u>Starts</u>	
Speed	0 Hz	Total	0
		Today	0
		Yesterday	0
		Per Hour	0

MANUAL

MANUAL

MAN

AUTO

MAN

AUTO

RESET

Manual Speed 0.0 Hz

Deviation 50.0 Hz

MANUAL

i

HRS

Manual

Time /
Run Hours

Time /
Sequential

Alternation PRE

24

Stop /
Run Hours

Stop /
Sequential

Alternation ACC

0

Ready Count

0

Called Count

0

Next Call

Equipment Number 1 2

Position

0

0

Exit



Mode Select

WAS

SHT 1

SHT 2

WAS

SHT 1 **INCORRECT MODE**SHT 2 **INCORRECT MODE**WAS **WAS PUMPS NOT READY**

Press 1

STOP

STOP

START

Press 1 **PRESS 1 SLUDGE VALVE NOT READY**

Press 2

STOP

STOP

START

Press 2 **PRESS 2 NOT READY**

Exit