

NMCC
Process Control Trainer
PLC5 program
9/30/19



Processor Information

Processor Type: PLC5/25 A H 22016

Processor Name: ICLAB

Total Memory Used: 5523 WORDS

Program Files: 10

Data Files: 25

ICLAB**Chassis 1**

Rack: 0
Size: 8 Slot Chassis
Addressing Mode: 1 Slot

<u>Slot</u>	<u>Module Type</u>	<u>Module Description</u>
0		
1	1771-IAD	120v AC 16pt Input
2	1771-OAD	120v AC 16pt Output
3	1771-IFE/C	12 Bit Analog Input, Series:C
4	1771-OQ16	24v DC 16pt Isolated Output
5	1771-OFE	12 Bit Analog Output
6		
7		

ICLAB**Chassis 2**

Rack: 1
Size: 12 Slot Chassis
Addressing Mode: 1 Slot

<u>Slot</u>	<u>Module Type</u>	<u>Module Description</u>
0	1771-IFE/C	12 Bit Analog Input, Series:C
1	1771-IAD	120v AC 16pt Input
2	1771-IAD	120v AC 16pt Input
3	1771-OQ16	24v DC 16pt Isolated Output
4	1771-OQ16	24v DC 16pt Isolated Output
5	1771-IFE/C	12 Bit Analog Input, Series:C
6	1771-IFE/C	12 Bit Analog Input, Series:C
7	1771-OFE	12 Bit Analog Output
8	1771-OFE	12 Bit Analog Output
9		
10		
11		

PID Configuration

PID - Rung #11:1 - N11:200

PID Equation: ISA	Feed Forward: 65416	Setpoint: 25
Mode: Manual	Max Scaled Input: 100	Proportional Gain(Kc) (.01): 1
Error: SP - PV	Min Scaled Input: 0	Res. Time(Ti) [.01 mins]: 1
Output Limiting: Yes	Deadband: 0	Derivative Rate (Td) [0.1 mins]: 1
Set Output Mode: Yes	Set Output Value %: 34	Loop Update Time: 100
Setpoint Scaling: Yes	Upper CV Limit%: 100	Lower CV Limit%: 15
Derivative Input: Error	Scaled PV Value: 75	Scaled Error: 65486

Channel Configuration

Processor Type: **PLC5/25 Series A Rev H**

Channel # Channel Type

Program File List

Name	Number	Type	Rungs	Debug	Bytes	Elements	Class1	Class2	Class3	Class4
[SYSTEM]	0	SYS	0	No	94	47	RW	RW	RW	RW
MCP	2	Ladder File	9	No	59	10	RW	RW	RW	RW
TEST I/O	3	Ladder File	13	No	250	45	RW	RW	RW	RW
ALOGCONFIG	4	Ladder File	15	No	320	55	RW	RW	RW	RW
ALOGSCALE	5	Ladder File	38	No	668	38	RW	RW	RW	RW
ALOGOUT	6	Ladder File	12	No	165	16	RW	RW	RW	RW
VFDCNTRL	7	Ladder File	2	No	23	4	RW	RW	RW	RW
PCT CNTRL	10	Ladder File	22	No	672	124	RW	RW	RW	RW
PID	11	Ladder File	11	No	249	27	RW	RW	RW	RW
SPARE	12	Ladder File	1	No	2	1	RW	RW	RW	RW

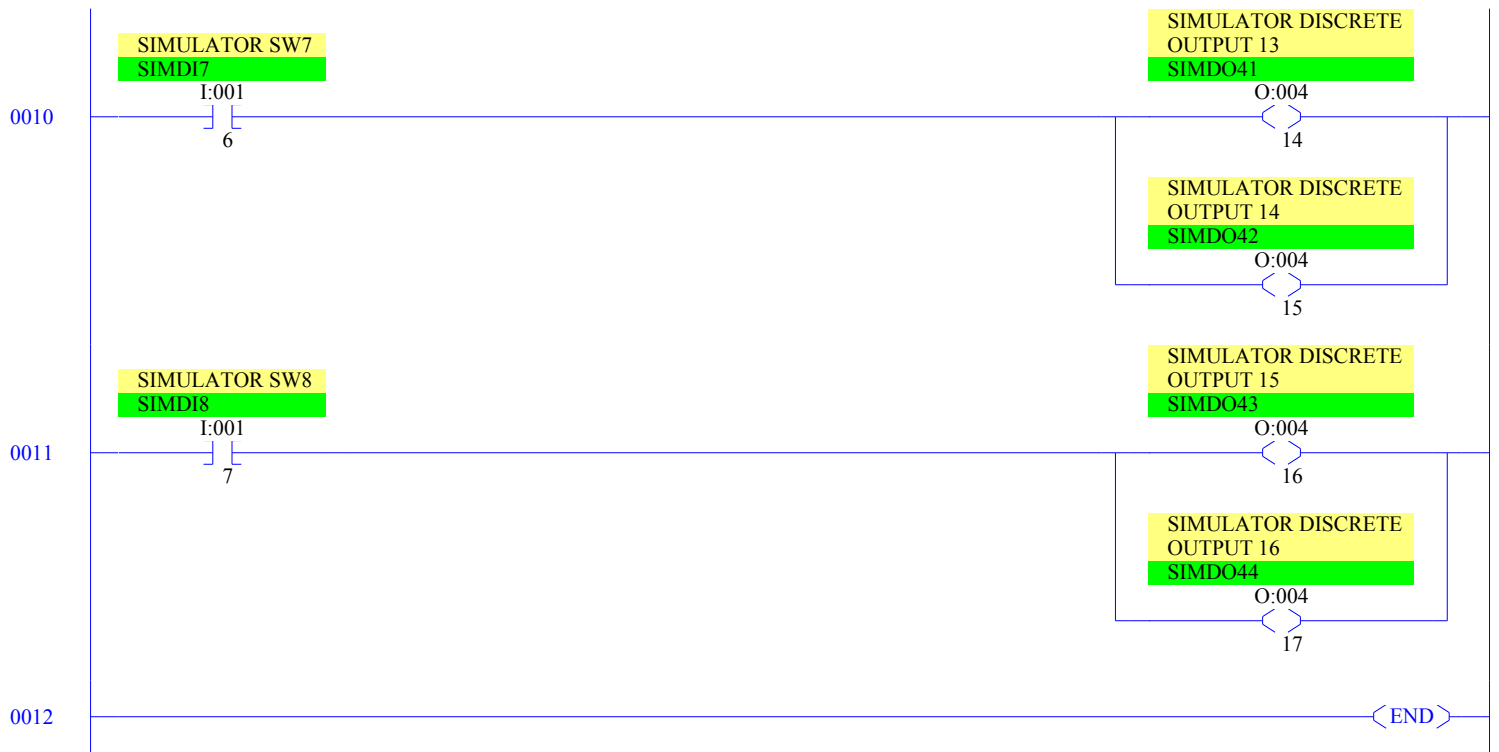


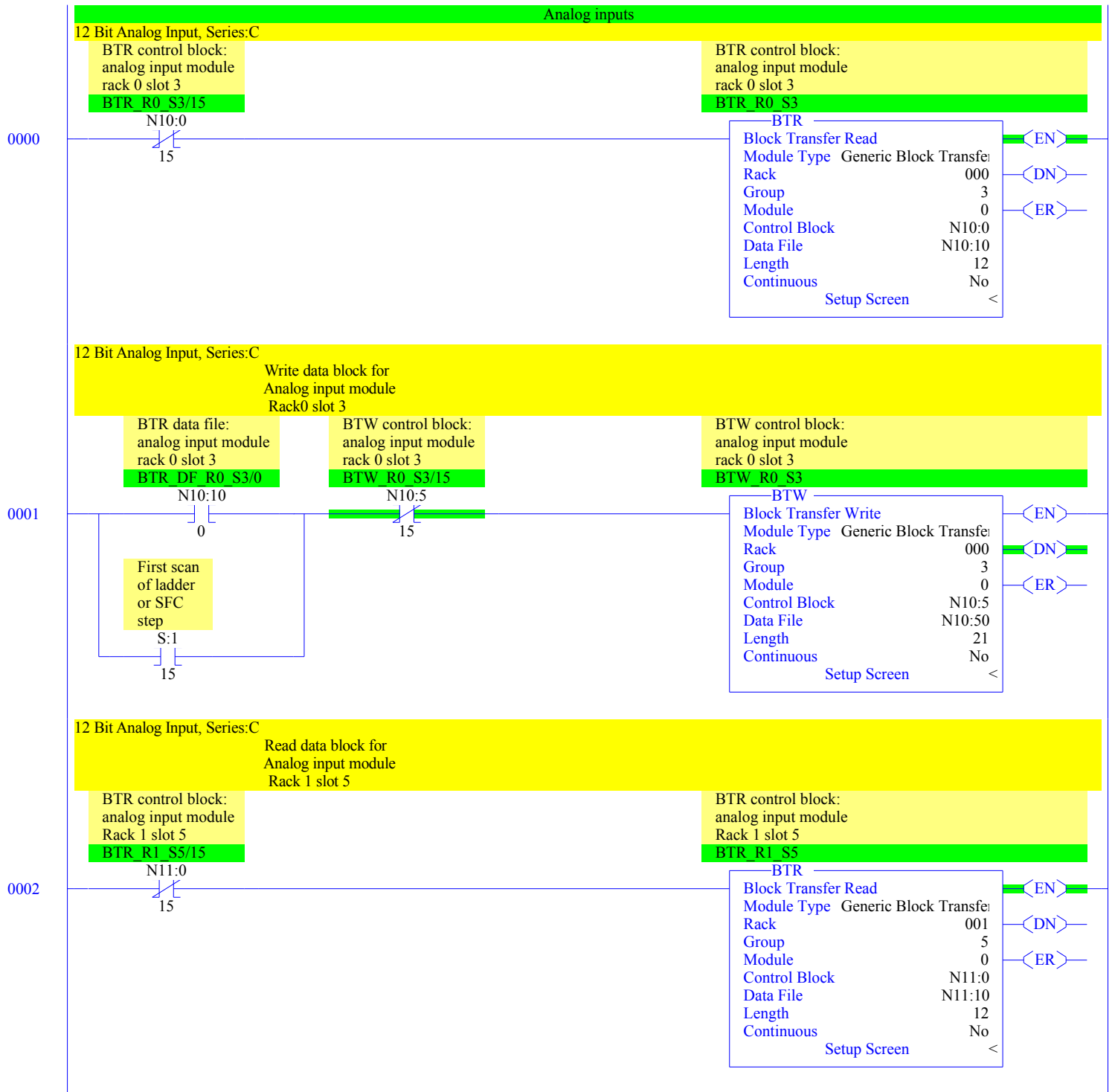


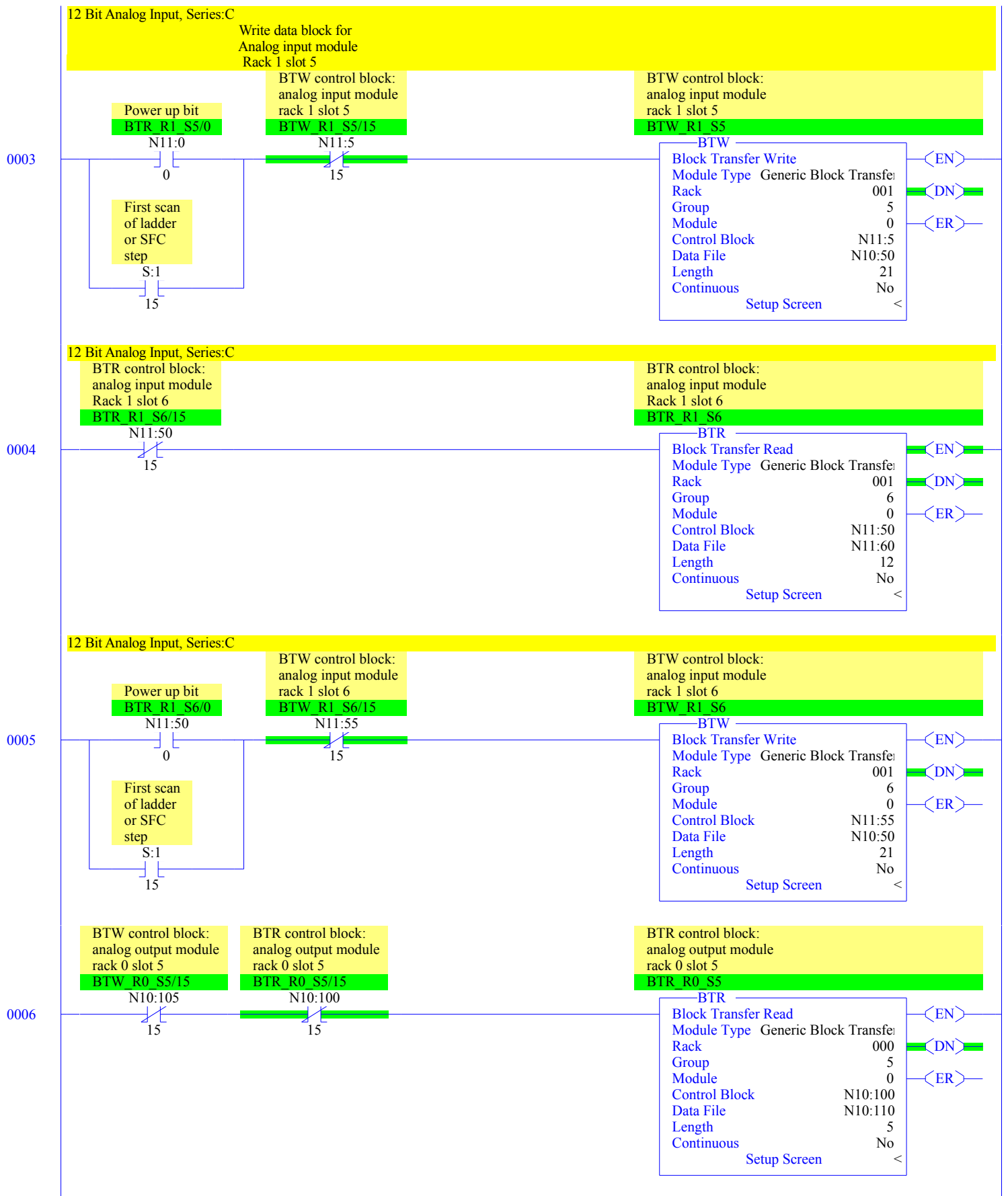
LAD 3 - TEST I/O - Program to check I/O points --- Total Rungs in File = 13



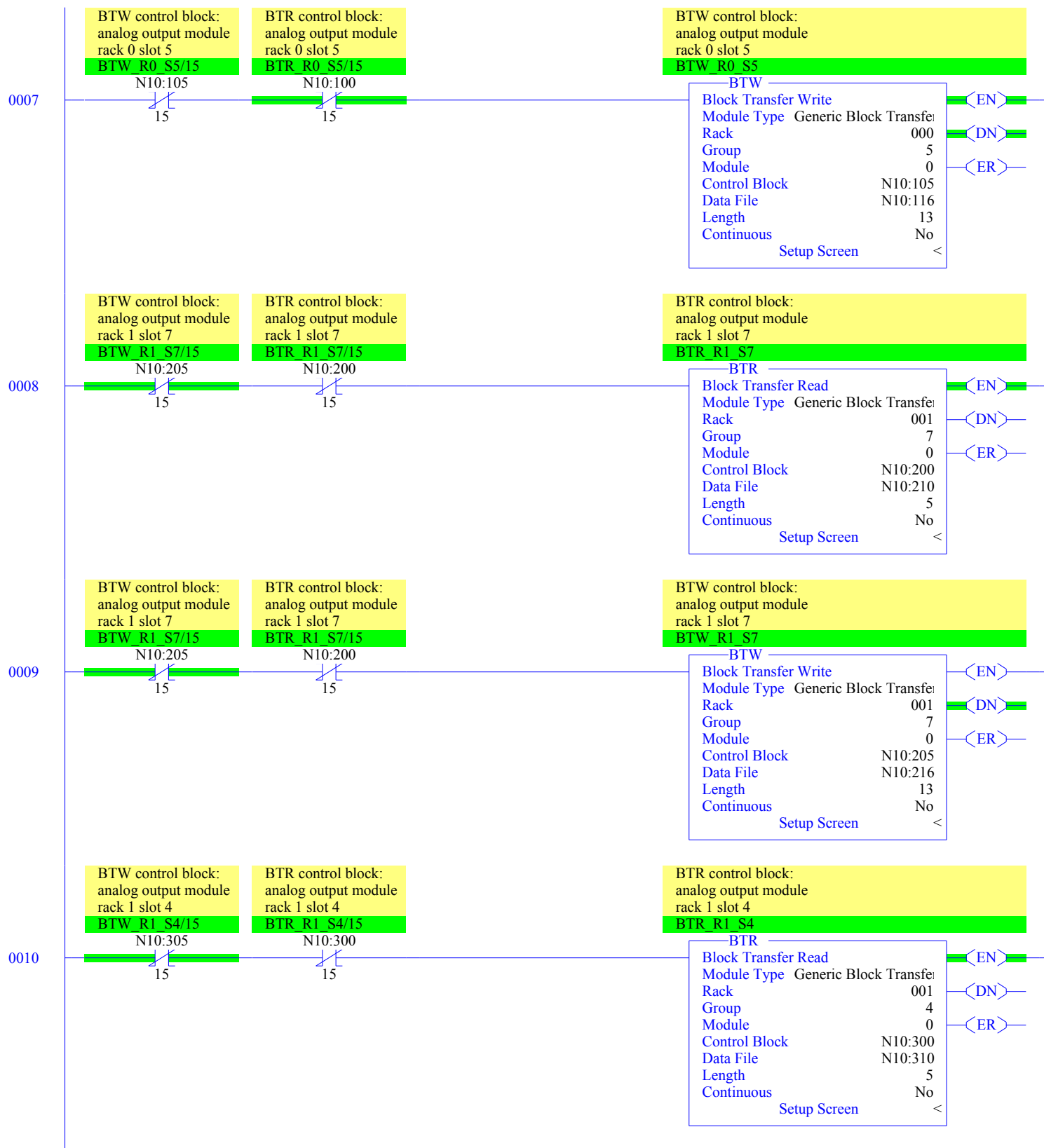
LAD 3 - TEST I/O - Program to check I/O points --- Total Rungs in File = 13

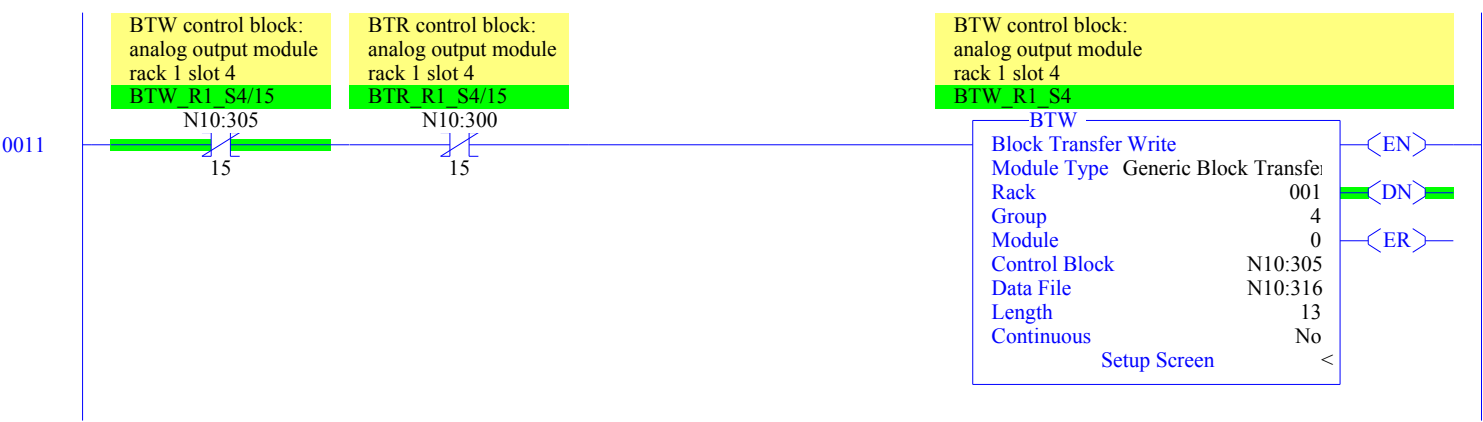




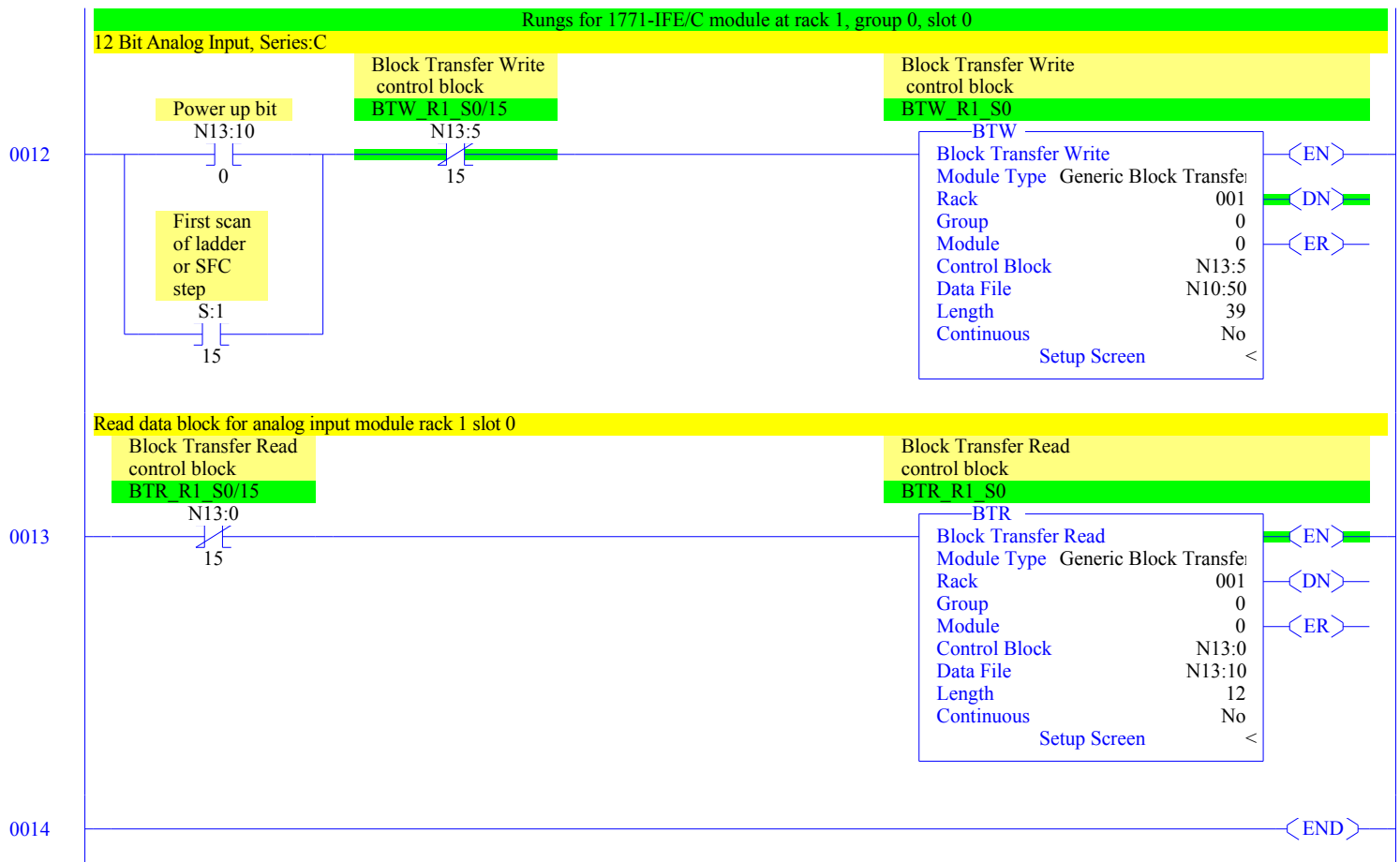


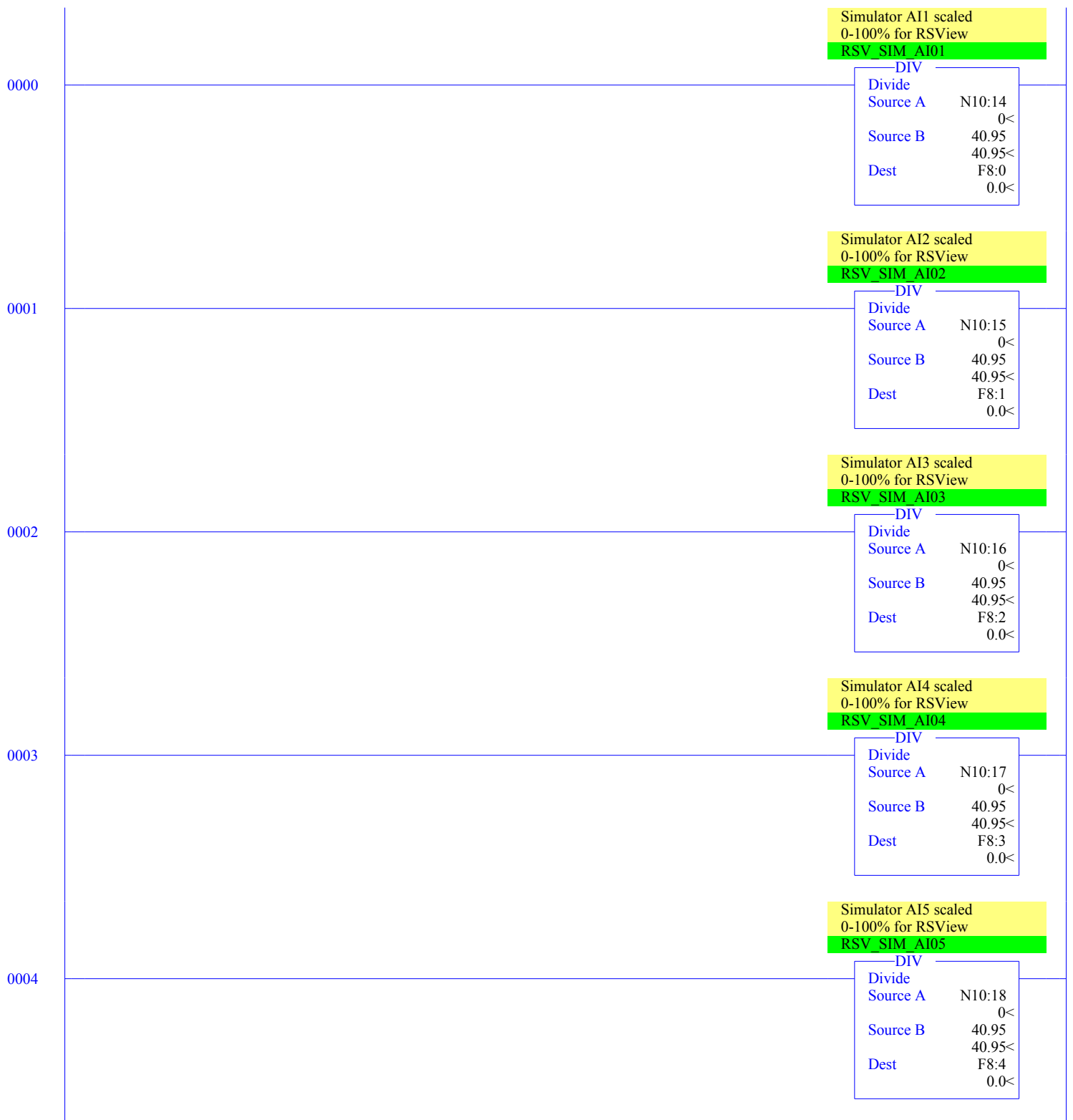
LAD 4 - ALOGCONFIG - Program to configure all analog I/O --- Total Rungs in File = 15





LAD 4 - ALOGCONFIG - Program to configure all analog I/O --- Total Rungs in File = 15





LAD 5 - ALOGSCALE - Program to scale analog inputs for RSView --- Total Rungs in File = 38

0005

Simulator AI6 scaled
0-100% for RSView
RSV_SIM_AI06

DIV
Divide
Source A N10:19
0<
Source B 40.95
40.95<
Dest F8:5
0.0<

0006

Simulator AI7 scaled
0-100% for RSView
RSV_SIM_AI07

DIV
Divide
Source A N10:20
0<
Source B 136.5
136.5<
Dest F8:6
0.0<

0007

Simulator AI8 scaled
0-100% for RSView
RSV_SIM_AI08

DIV
Divide
Source A N10:21
0<
Source B 81.9
81.9<
Dest F8:7
0.0<

0008

Drexelbrook level
transmitter in
storage tank range:
0-120in. for RSView
RSV_PCT_LOOP01

DIV
Divide
Source A N11:14
2097<
Source B 34.125
34.125<
Dest F8:8
61.45055<

0009

Reciver tank level
scaling before ADD
instruction (offset)
LOOP2A

DIV
Divide
Source A N11:15
4280<
Source B 63.0
63.0<
Dest F8:9
67.92063<

0010

Drexelbrook smart
level transmitter in
receiver tank
18-83in. for RSVView

RSV_PCT_LOOP02

—ADD—

Add	
Source A	F8:9 67.92063<
Source B	18.0 18.0<
Dest	F8:10 85.92063<

0011

Drexelbrook open
channel flow
transmitter range:
0-50gpm for RSVView

RSV_PCT_LOOP03

—DIV—

Divide	
Source A	N11:16 -38<
Source B	81.9 81.9<
Dest	F8:11 -0.4639804<

0012

Signet paddle wheel
flow transmitter
range: 0-30gpm for
RSVView

RSV_PCT_LOOP04

—DIV—

Divide	
Source A	N11:17 1<
Source B	136.5 136.5<
Dest	F8:12 0.007326007<

0013

System pressure
transmitter range:
0-30psi for RSVView

RSV_PCT_LOOP05

—DIV—

Divide	
Source A	N11:18 -46<
Source B	136.5 136.5<
Dest	F8:13 -0.3369963<

0014

VFD speed range:
0-100% for RSVView

RSV_PCT_LOOP06

—DIV—

Divide	
Source A	N11:19 -1023<
Source B	40.95 40.95<
Dest	F8:14 -24.98168<

0015

Total system flow on
magmeter range:
0-50GPM for RSView
RSV_PCT_LOOP07

-DIV	
Divide	
Source A	N11:20
	-5<
Source B	81.9
	81.9<
Dest	F8:15
	-0.06105006<

0016

DP transmitter
across process water
filter range:
0-15psi for RSView
RSV_PCT_LOOP08

-DIV	
Divide	
Source A	N11:21
	-1023<
Source B	273.0
	273.0<
Dest	F8:16
	-3.747253<

0017

Bubbler Level on
the weir tank range:
0-15" for RSView
RSV_PCT_LOOP09

-DIV	
Divide	
Source A	N11:64
	-1023<
Source B	273.0
	273.0<
Dest	F8:17
	-3.747253<

0018

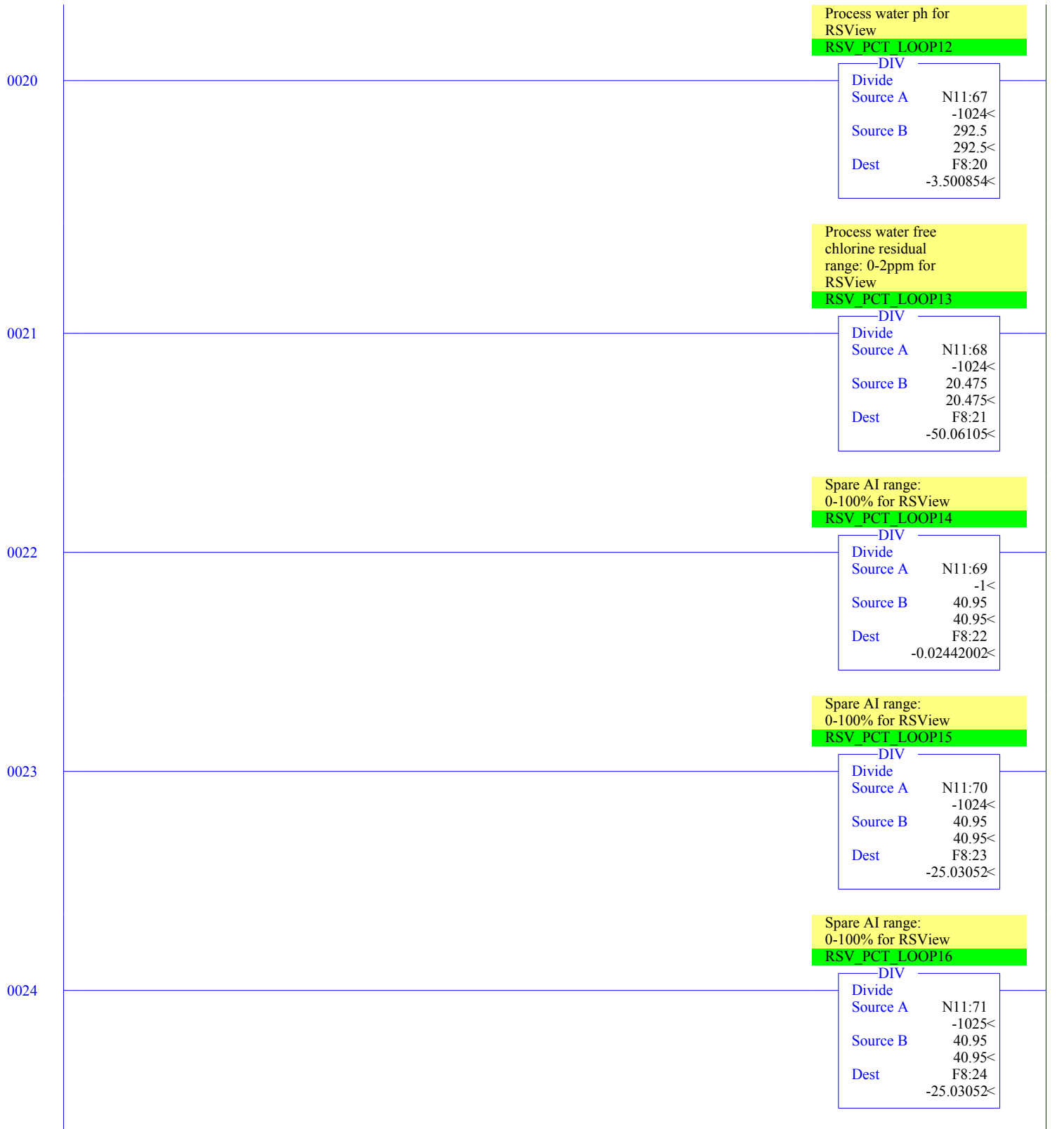
Taylor DP flow
transmitter on zone
#5 wedge range:
0-30gpm for RSView
RSV_PCT_LOOP10

-DIV	
Divide	
Source A	N11:65
	-1024<
Source B	136.5
	136.5<
Dest	F8:18
	-7.501831<

0019

DP level transmitter
on reactor pneumatic
with P/I for RSView
RSV_PCT_LOOP11

-DIV	
Divide	
Source A	N11:66
	-1025<
Source B	68.25
	68.25<
Dest	F8:19
	-15.01831<



LAD 5 - ALOGSCALE - Program to scale analog inputs for RSVIEW --- Total Rungs in File = 38

0025

Prosoft Honeywell DP
flow trans. on zone
#2 venturi range:
0-30GPM for RSVIEW
RSV_PCT_LOOP17

DIV

Divide	
Source A	N13:14
	3<
Source B	20.17
	20.17<
Dest	F8:25
	0.2974715<

0026

DIV

Divide	
Source A	N13:15
	2067<
Source B	34.13
	34.13<
Dest	F8:33
	60.88485<

0027

Prosoft Honeywell
level trans. on
storage tank range:
5.5-125.5" for
RSVIEW
RSV_PCT_LOOP18

ADD

Add	
Source A	F8:33
	60.88485<
Source B	5.5
	5.5<
Dest	F8:26
	66.38485<

0028

DIV

Divide	
Source A	N13:16
	2949<
Source B	34.13
	34.13<
Dest	F8:34
	86.49281<

0029

Prosoft Honeywell
level trans. on
receiver tank range:
7-127" for RSVIEW
RSV_PCT_LOOP19

ADD

Add	
Source A	F8:34
	86.49281<
Source B	7.0
	7.0<
Dest	F8:27
	93.49281<

LAD 5 - ALOGSCALE - Program to scale analog inputs for RSVIEW --- Total Rungs in File = 38

0030

Prosoft Honeywell
pressure trans. for
reactor range:
0-60PSI for RSVIEW
RSV_PCT_LOOP20

DIV

Divide

Source A N13:17
8<
Source B 68.75
68.75<
Dest F8:28
0.08727273<

0031

DIV

Divide

Source A N13:18
919<
Source B 22.75
22.75<
Dest F8:35
40.21978<

0032

Prosoft Honeywell
temperature trans.
room temp. range:
32-212deg F for
RSVIEW
RSV_PCT_LOOP21

ADD

Add

Source A F8:35
40.21978<
Source B 32.0
32.0<
Dest F8:29
72.21978<

0033

DIV

Divide

Source A N13:19
808<
Source B 22.75
22.75<
Dest F8:36
35.60439<

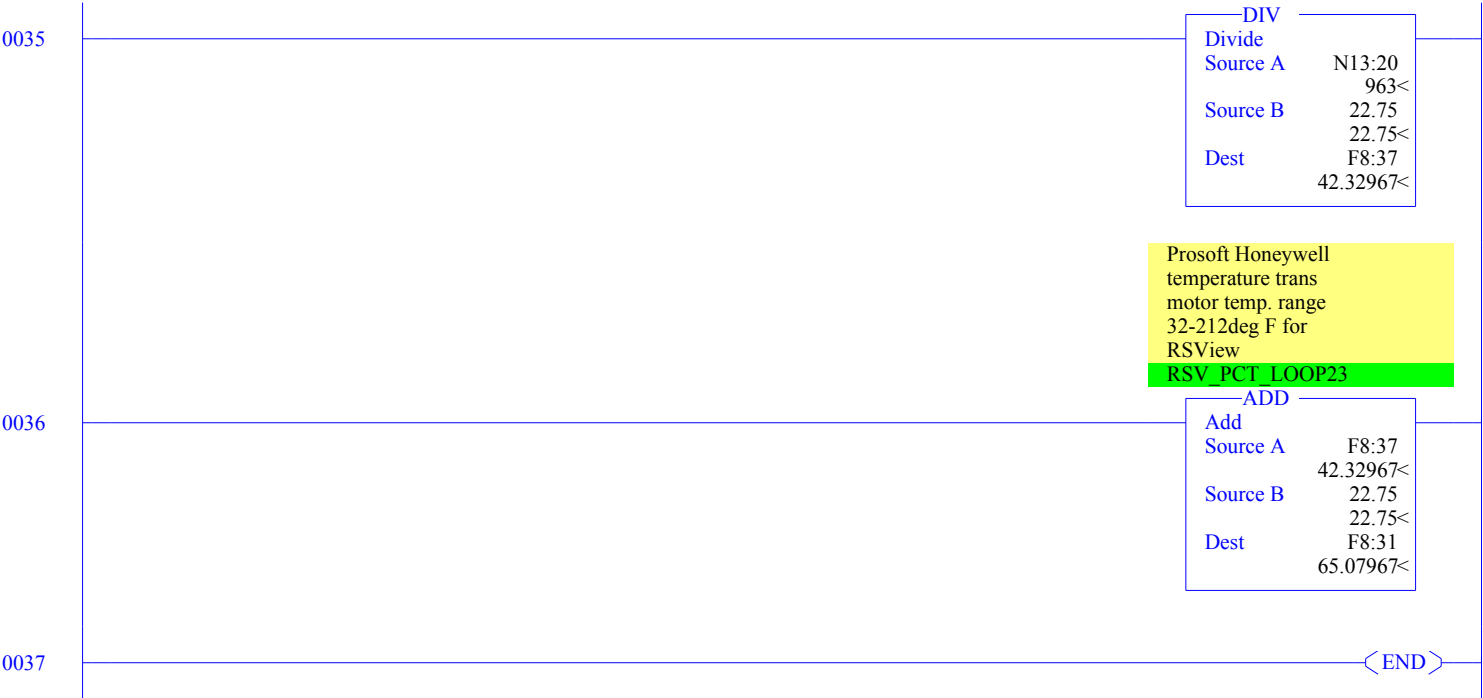
0034

Prosoft Honeywell
temperature trans.
process temp. range:
32-212deg F for
RSVIEW
RSV_PCT_LOOP22

ADD

Add

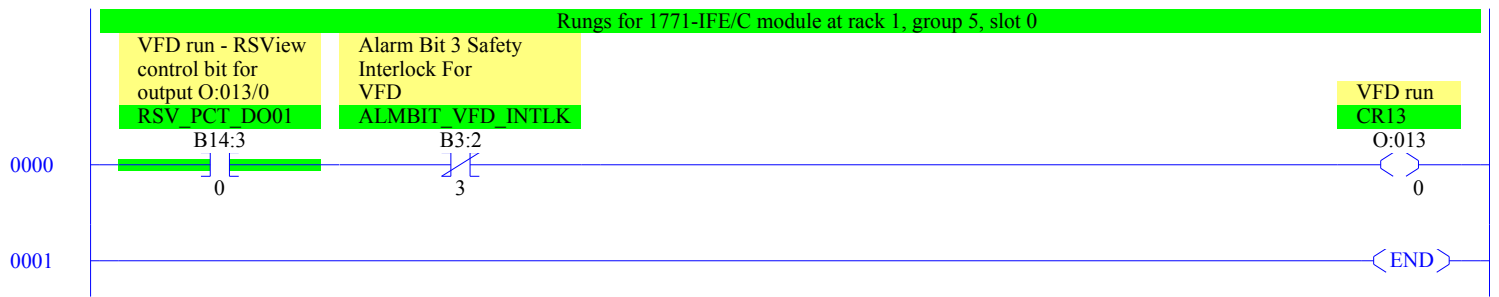
Source A F8:36
35.60439<
Source B 32.0
32.0<
Dest F8:30
67.60439<



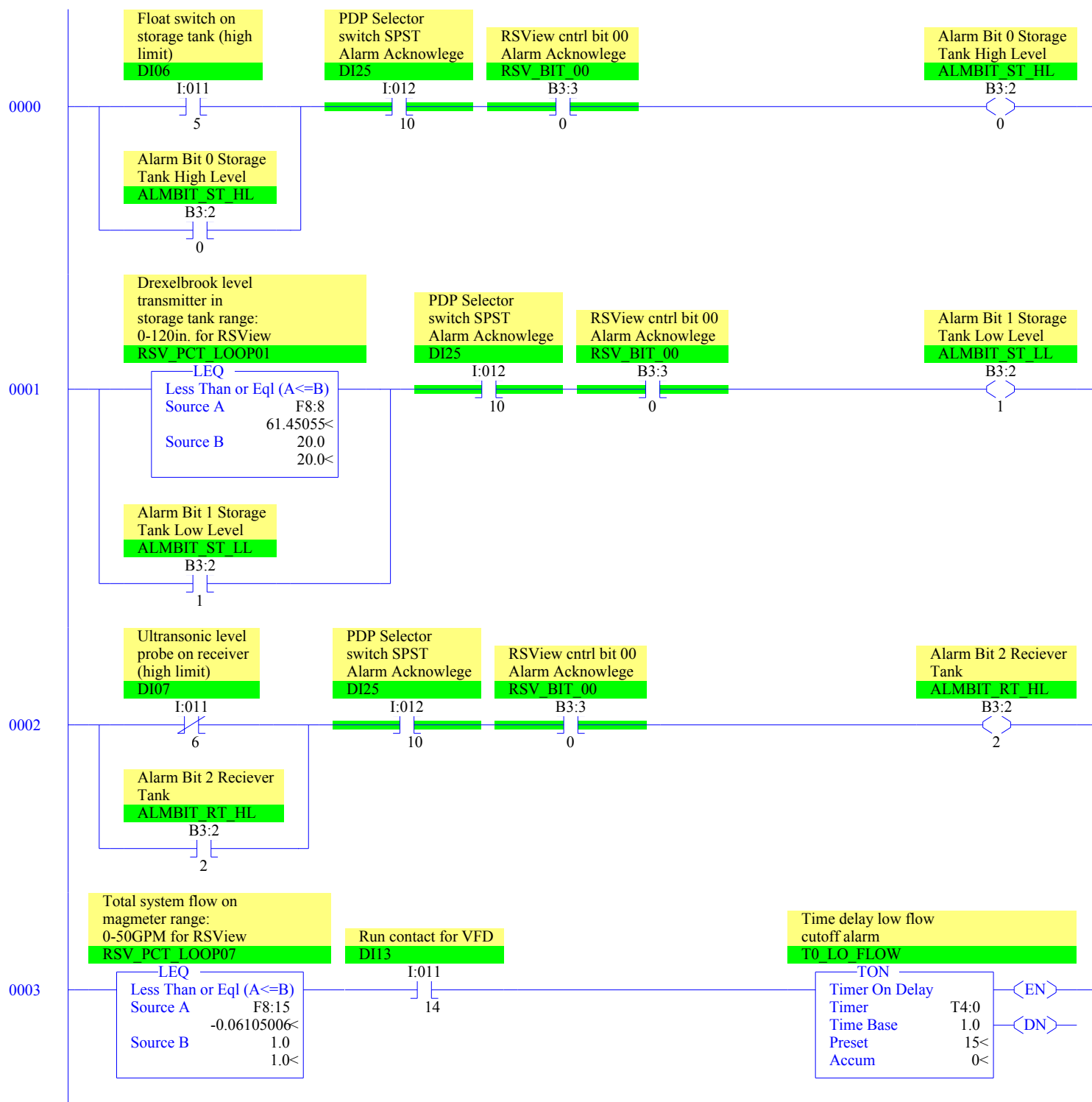




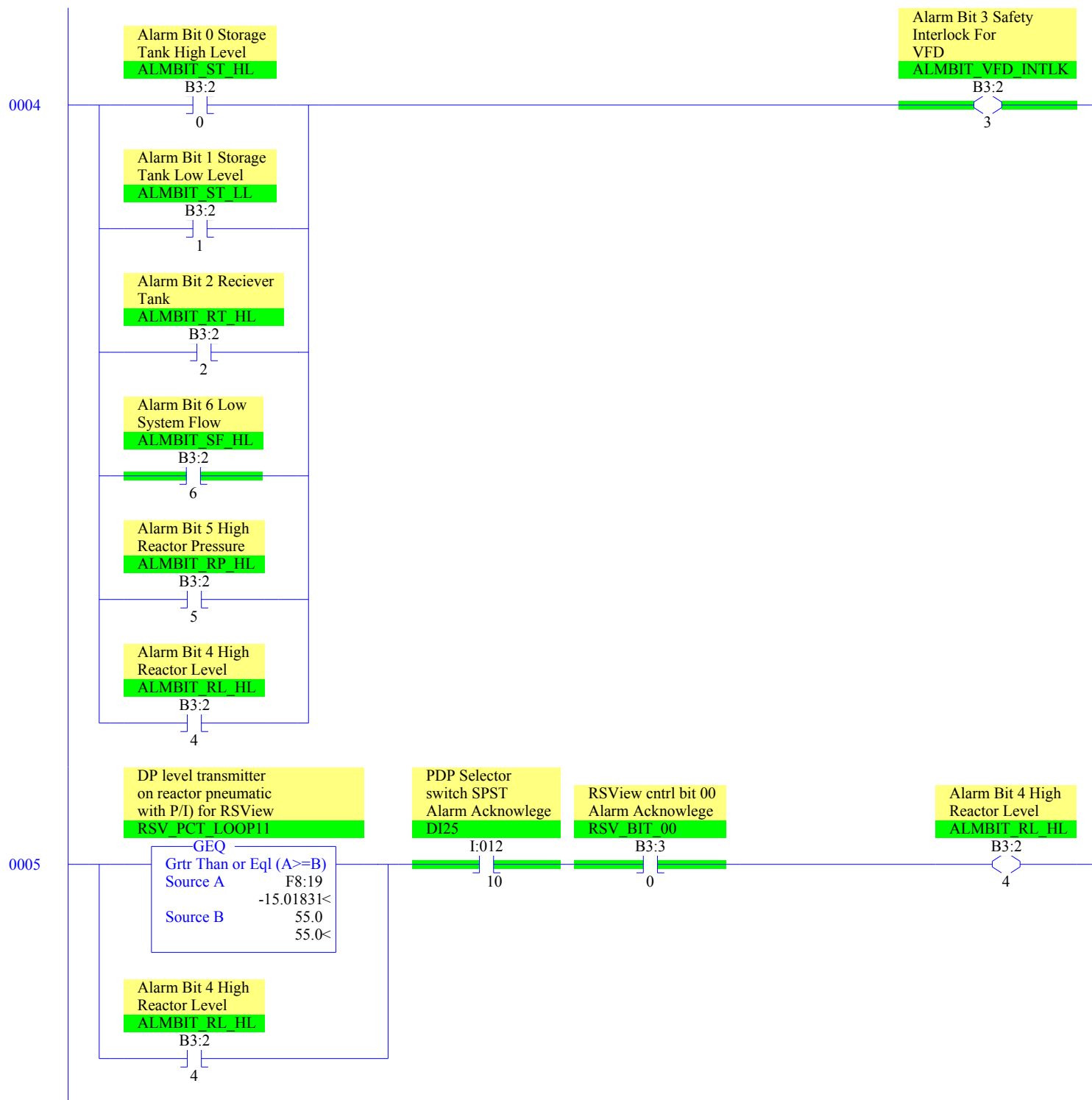
LAD 7 - VFDCNTRL - Process pump VFD control sequence --- Total Rungs in File = 2



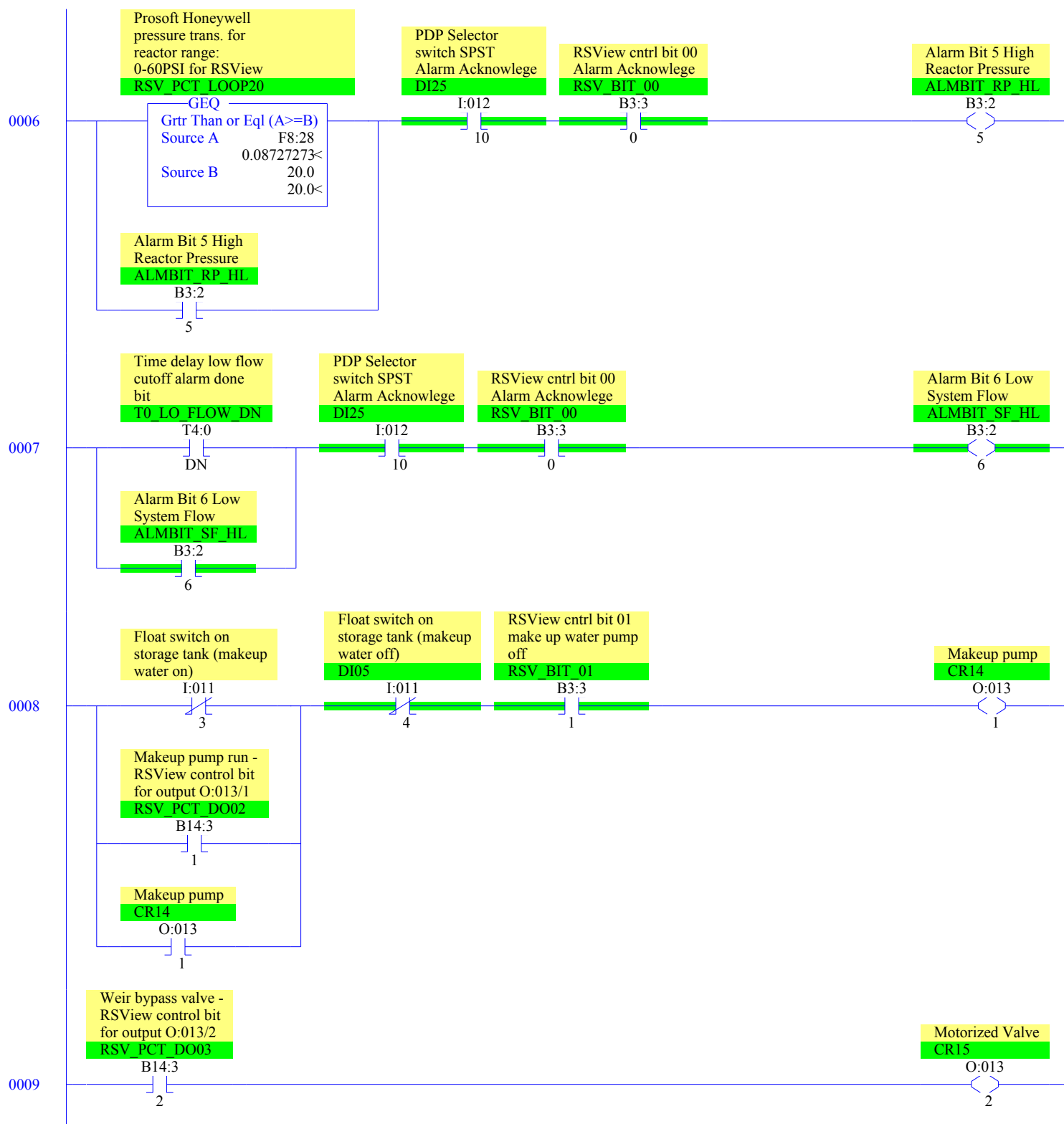
LAD 10 - PCT CNTRL - Inherent safety and control features for PCT --- Total Rungs in File = 22



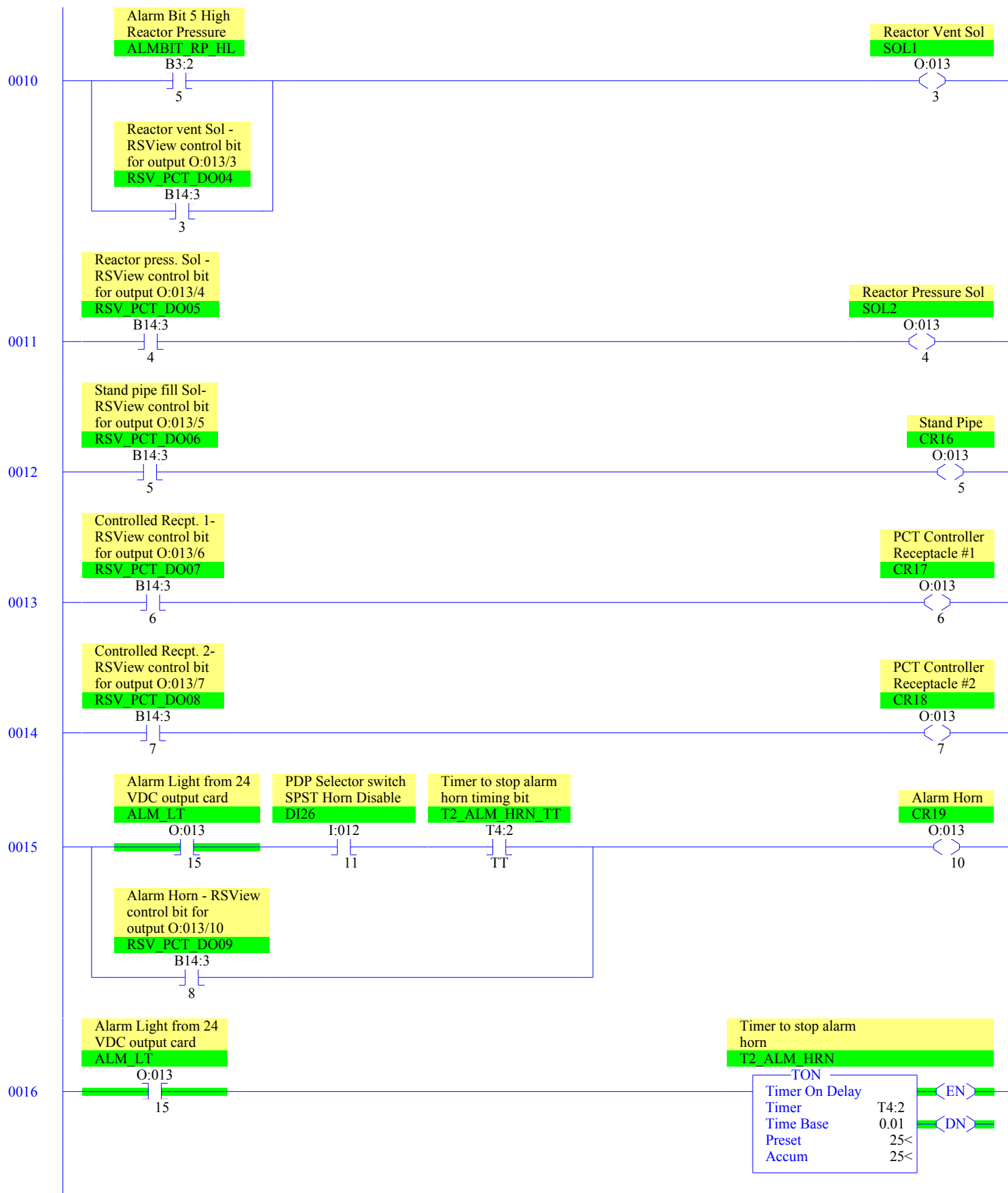
LAD 10 - PCT CNTRL - Inherent safety and control features for PCT --- Total Rungs in File = 22



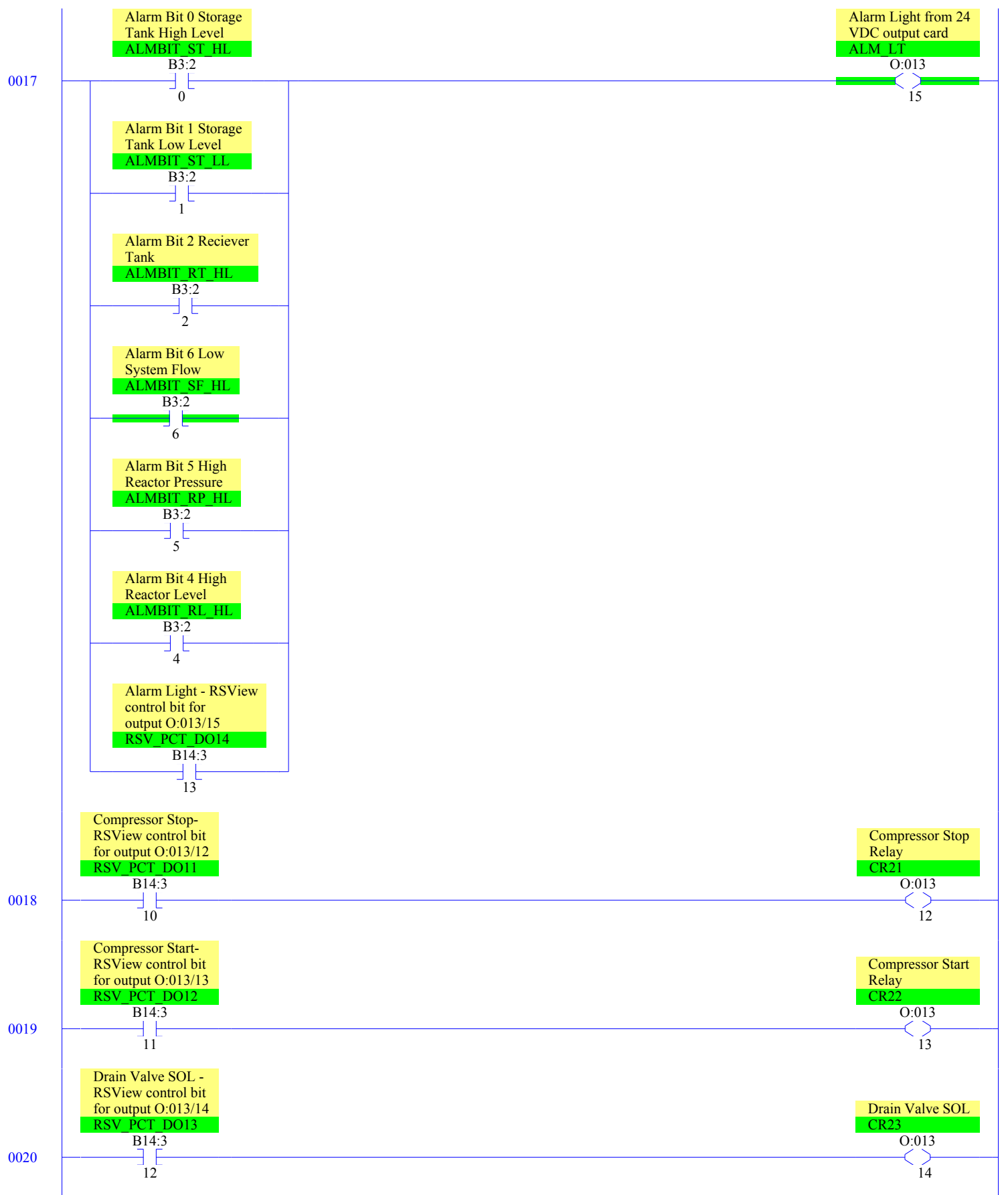
LAD 10 - PCT CNTRL - Inherent safety and control features for PCT --- Total Rungs in File = 22



LAD 10 - PCT CNTRL - Inherent safety and control features for PCT --- Total Rungs in File = 22



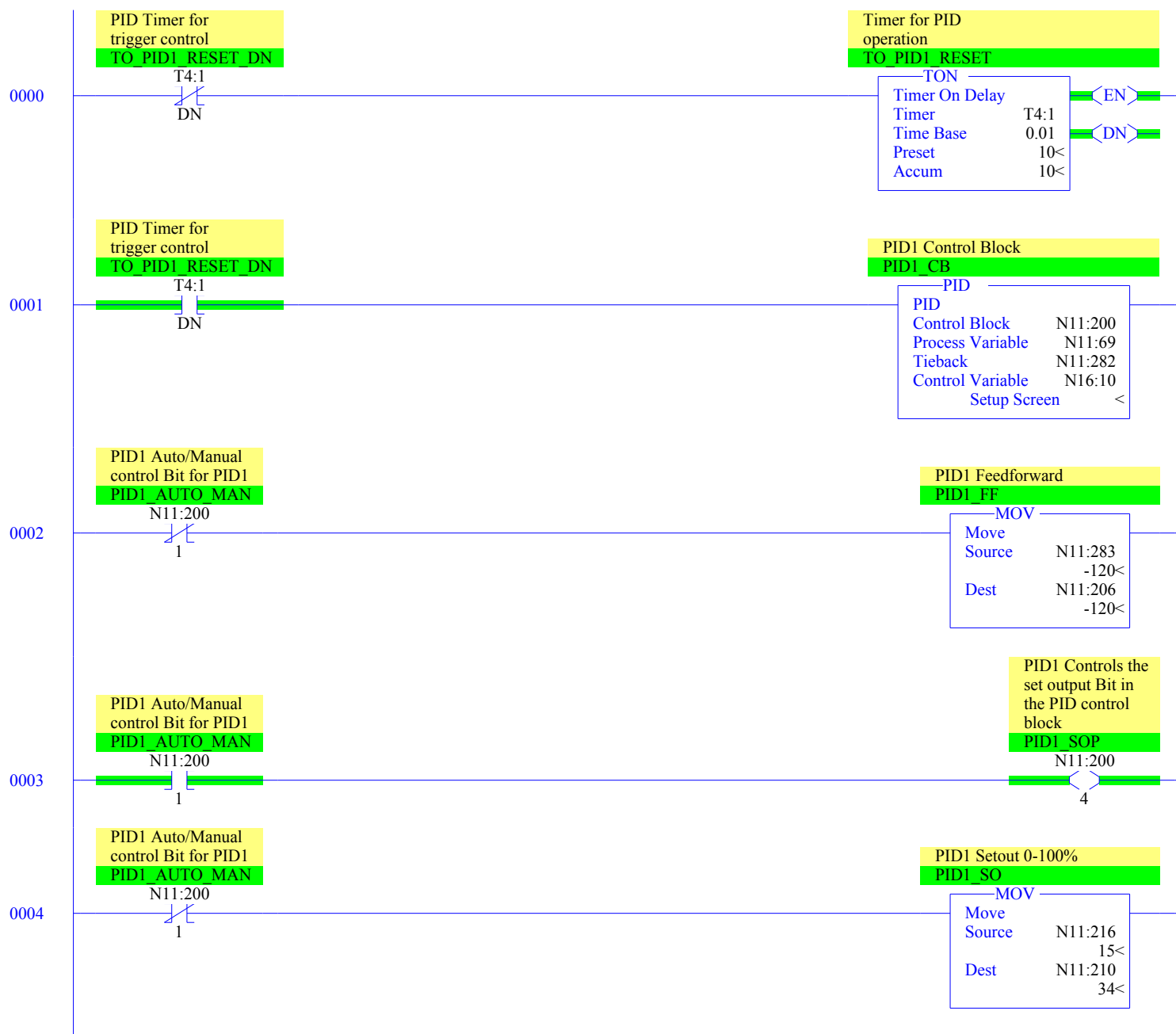
LAD 10 - PCT CNTRL - Inherent safety and control features for PCT --- Total Rungs in File = 22



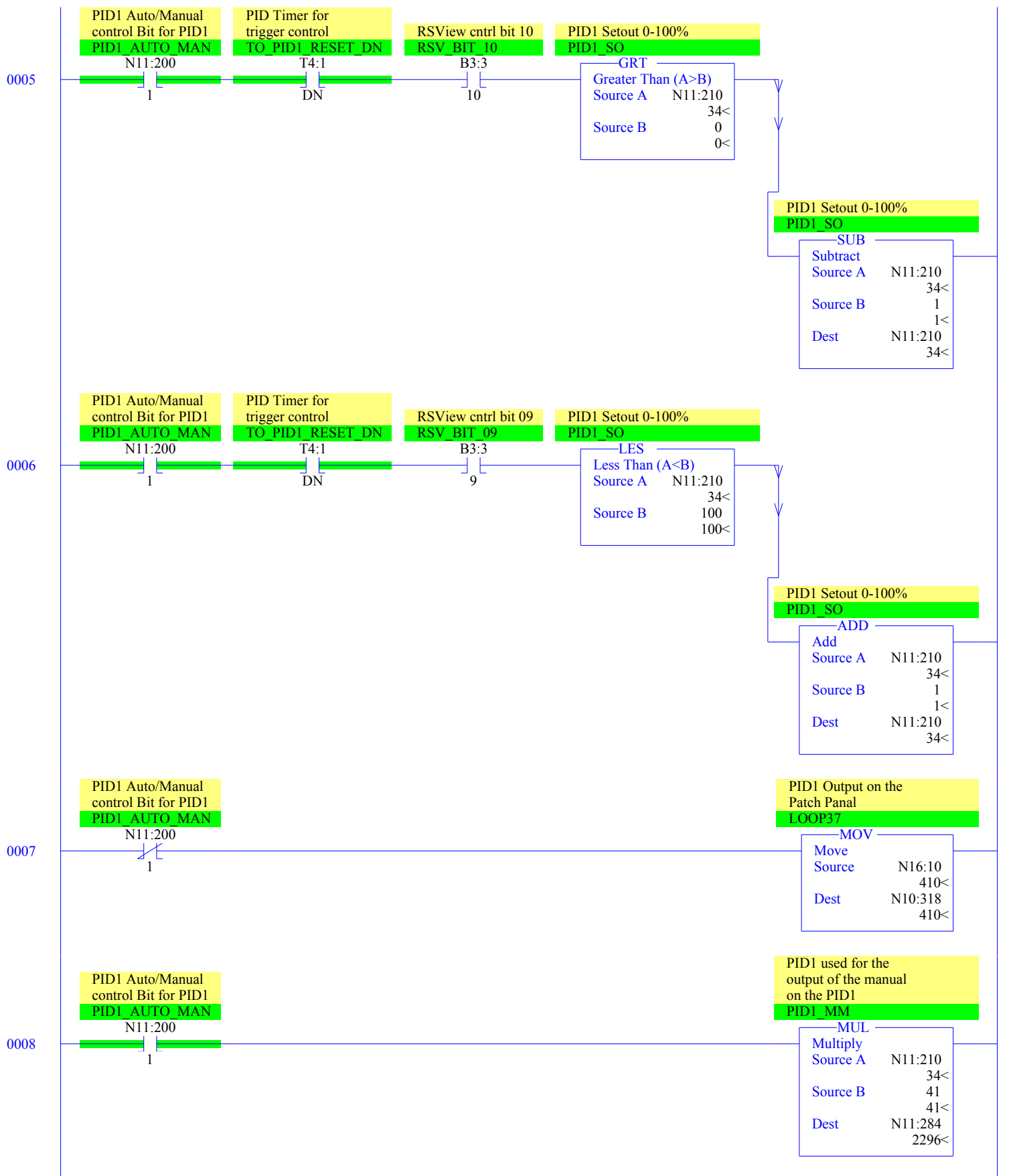
LAD 10 - PCT CNTRL - Inherent safety and control features for PCT --- Total Rungs in File = 22

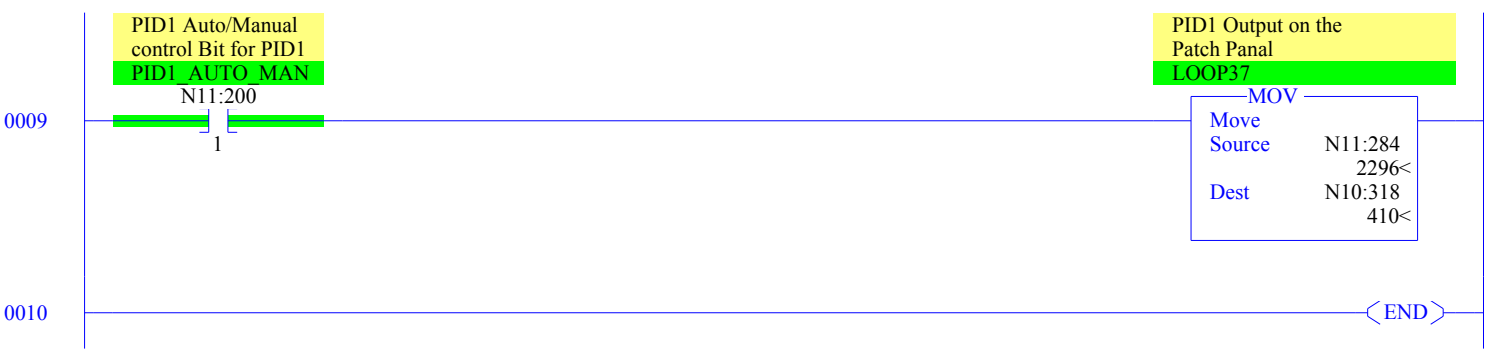
0021

<END>



LAD 11 - PID --- Total Rungs in File = 11





LAD 12 - SPARE --- Total Rungs in File = 1

Rungs for 1771-IFE/C module at rack 2, group 1, slot 0

12 Bit Analog Input, Series:C

0000

<END>

Cross Reference Report - Sorted by Address

O:004/0	- {SIMDO11} SIMULATOR DISCRETE OUTPUT 1 OTE - File #3 TEST I/O - 4
O:004/1	- {SIMDO12} SIMULATOR DISCRETE OUTPUT 2 OTE - File #3 TEST I/O - 4
O:004/2	- {SIMDO13} SIMULATOR DISCRETE OUTPUT 3 OTE - File #3 TEST I/O - 5
O:004/3	- {SIMDO14} SIMULATOR DISCRETE OUTPUT 4 OTE - File #3 TEST I/O - 5
O:004/4	- {SIMDO21} SIMULATOR DISCRETE OUTPUT 5 OTE - File #3 TEST I/O - 6
O:004/5	- {SIMDO22} SIMULATOR DISCRETE OUTPUT 6 OTE - File #3 TEST I/O - 6
O:004/6	- {SIMDO23} SIMULATOR DISCRETE OUTPUT 7 OTE - File #3 TEST I/O - 7
O:004/7	- {SIMDO24} SIMULATOR DISCRETE OUTPUT 8 OTE - File #3 TEST I/O - 7
O:004/10	- {SIMDO31} SIMULATOR DISCRETE OUTPUT 9 OTE - File #3 TEST I/O - 8
O:004/11	- {SIMDO32} SIMULATOR DISCRETE OUTPUT 10 OTE - File #3 TEST I/O - 8
O:004/12	- {SIMDO33} SIMULATOR DISCRETE OUTPUT 11 OTE - File #3 TEST I/O - 9
O:004/13	- {SIMDO34} SIMULATOR DISCRETE OUTPUT 12 OTE - File #3 TEST I/O - 9
O:004/14	- {SIMDO41} SIMULATOR DISCRETE OUTPUT 13 OTE - File #3 TEST I/O - 10
O:004/15	- {SIMDO42} SIMULATOR DISCRETE OUTPUT 14 OTE - File #3 TEST I/O - 10
O:004/16	- {SIMDO43} SIMULATOR DISCRETE OUTPUT 15 OTE - File #3 TEST I/O - 11
O:004/17	- {SIMDO44} SIMULATOR DISCRETE OUTPUT 16 OTE - File #3 TEST I/O - 11
O:013/0	- {CR13} VFD run OTE - File #7 VFDCNTRL - 0
O:013/1	- {CR14} Makeup pump OTE - File #10 PCT CNTRL - 8 XIC - File #10 PCT CNTRL - 8
O:013/2	- {CR15} Motorized Valve OTE - File #10 PCT CNTRL - 9
O:013/3	- {SOL1} Reactor Vent Sol OTE - File #10 PCT CNTRL - 10
O:013/4	- {SOL2} Reactor Pressure Sol OTE - File #10 PCT CNTRL - 11
O:013/5	- {CR16} Stand Pipe OTE - File #10 PCT CNTRL - 12
O:013/6	- {CR17} PCT Controller Receptacle #1 OTE - File #10 PCT CNTRL - 13
O:013/7	- {CR18} PCT Controller Receptacle #2 OTE - File #10 PCT CNTRL - 14
O:013/10	- {CR19} Alarm Horn OTE - File #10 PCT CNTRL - 15
O:013/12	- {CR21} Compressor Stop Relay OTE - File #10 PCT CNTRL - 18
O:013/13	- {CR22} Compressor Start Relay OTE - File #10 PCT CNTRL - 19
O:013/14	- {CR23} Drain Valve SOL OTE - File #10 PCT CNTRL - 20
O:013/15	- {ALM LT} Alarm Light from 24 VDC output card OTE - File #10 PCT CNTRL - 17 XIC - File #10 PCT CNTRL - 15, 16
I:001/0	- {SIMDI1} SIMULATOR SW1 XIC - File #3 TEST I/O - 4
I:001/1	- {SIMDI2} SIMULATOR SW2 XIC - File #3 TEST I/O - 5

Cross Reference Report - Sorted by Address

I:001/2	- {SIMDI3} SIMULATOR SW3 XIC - File #3 TEST I/O - 6
I:001/3	- {SIMDI4} SIMULATOR SW4 XIC - File #3 TEST I/O - 7
I:001/4	- {SIMDI5} SIMULATOR SW5 XIC - File #3 TEST I/O - 8
I:001/5	- {SIMDI6} SIMULATOR SW6 XIC - File #3 TEST I/O - 9
I:001/6	- {SIMDI7} SIMULATOR SW7 XIC - File #3 TEST I/O - 10
I:001/7	- {SIMDI8} SIMULATOR SW8 XIC - File #3 TEST I/O - 11
I:001/10	- {SIMMI1} SIMULATOR MI-1 XIO - File #6 ALOGOUT - 7, 8, 9, 10
I:011/3	- Float switch on storage tank (makeup water on) XIO - File #10 PCT CNTRL - 8
I:011/4	- {DI05} Float switch on storage tank (makeup water off) XIO - File #10 PCT CNTRL - 8
I:011/5	- {DI06} Float switch on storage tank (high limit) XIC - File #10 PCT CNTRL - 0
I:011/6	- {DI07} Ultrasonic level probe on receiver (high limit) XIO - File #10 PCT CNTRL - 2
I:011/14	- {DI13} Run contact for VFD XIC - File #10 PCT CNTRL - 3
I:012/10	- {DI25} PDP Selector switch SPST Alarm Acknowledge XIC - File #10 PCT CNTRL - 0, 1, 2, 5, 6, 7
I:012/11	- {DI26} PDP Selector switch SPST Horn Disable XIC - File #10 PCT CNTRL - 15
S:1/15	- First scan of ladder or SFC step XIC - File #4 ALOGCONFIG - 1, 3, 5, 12
B3:2/0	- {ALMBIT_ST_HL} Alarm Bit 0 Storage Tank High Level OTE - File #10 PCT CNTRL - 0 XIC - File #10 PCT CNTRL - 0, 4, 17
B3:2/1	- {ALMBIT_ST_LL} Alarm Bit 1 Storage Tank Low Level OTE - File #10 PCT CNTRL - 1 XIC - File #10 PCT CNTRL - 1, 4, 17
B3:2/2	- {ALMBIT_RT_HL} Alarm Bit 2 Receiver Tank OTE - File #10 PCT CNTRL - 2 XIC - File #10 PCT CNTRL - 2, 4, 17
B3:2/3	- {ALMBIT_VFD_INTLK} Alarm Bit 3 Safety Interlock For VFD OTE - File #10 PCT CNTRL - 4 XIO - File #7 VFDCNTRL - 0
B3:2/4	- {ALMBIT_RL_HL} Alarm Bit 4 High Reactor Level OTE - File #10 PCT CNTRL - 5 XIC - File #10 PCT CNTRL - 4, 5, 17
B3:2/5	- {ALMBIT_RP_HL} Alarm Bit 5 High Reactor Pressure OTE - File #10 PCT CNTRL - 6 XIC - File #10 PCT CNTRL - 4, 6, 10, 17
B3:2/6	- {ALMBIT_SF_HL} Alarm Bit 6 Low System Flow OTE - File #10 PCT CNTRL - 7 XIC - File #10 PCT CNTRL - 4, 7, 17
B3:3/0	- {RSV BIT 00} RSView cntrl bit 00 Alarm Acknowledge XIC - File #10 PCT CNTRL - 0, 1, 2, 5, 6, 7
B3:3/1	- {RSV BIT 01} RSView cntrl bit 01 make up water pump off XIC - File #10 PCT CNTRL - 8
B3:3/9	- {RSV BIT 09} RSView cntrl bit 09 XIC - File #11 PID - 6
B3:3/10	- {RSV BIT 10} RSView cntrl bit 10 XIC - File #11 PID - 5
T4:0	- {T0 LO FLOW} Time delay low flow cutoff alarm TON - File #10 PCT CNTRL - 3
T4:0/DN	- {T0 LO FLOW DN} Time delay low flow cutoff alarm done bit XIC - File #10 PCT CNTRL - 7
T4:1	- {T0_PID1_RESET} Timer for PID operation

Cross Reference Report - Sorted by Address

T4:1/DN	TON - File #11 PID - 0 - {TO PID1 RESET DN} PID Timer for trigger control XIC - File #11 PID - 1, 5, 6 XIO - File #11 PID - 0
T4:2	- {T2_ALM_HRN} Timer to stop alarm horn TON - File #10 PCT CNTRL - 16
T4:2/TT	- {T2_ALM_HRN_TT} Timer to stop alarm horn timing bit XIC - File #10 PCT CNTRL - 15
N7:40	- MOV - File #2 MCP - 7
F8:0	- {RSV_SIM_AI01} Simulator AI1 scaled 0-100% for RSView DIV - File #5 ALOGSCALE - 0
F8:1	- {RSV_SIM_AI02} Simulator AI2 scaled 0-100% for RSView DIV - File #5 ALOGSCALE - 1
F8:2	- {RSV_SIM_AI03} Simulator AI3 scaled 0-100% for RSView DIV - File #5 ALOGSCALE - 2
F8:3	- {RSV_SIM_AI04} Simulator AI4 scaled 0-100% for RSView DIV - File #5 ALOGSCALE - 3
F8:4	- {RSV_SIM_AI05} Simulator AI5 scaled 0-100% for RSView DIV - File #5 ALOGSCALE - 4
F8:5	- {RSV_SIM_AI06} Simulator AI6 scaled 0-100% for RSView DIV - File #5 ALOGSCALE - 5
F8:6	- {RSV_SIM_AI07} Simulator AI7 scaled 0-100% for RSView DIV - File #5 ALOGSCALE - 6
F8:7	- {RSV_SIM_AI08} Simulator AI8 scaled 0-100% for RSView DIV - File #5 ALOGSCALE - 7
F8:8	- {RSV_PCT_LOOP01} Drexelbrook level transmitter in storage tank range: 0-120in. for RSView DIV - File #5 ALOGSCALE - 8 LEQ - File #10 PCT CNTRL - 1
F8:9	- {LOOP2A} Reciver tank level scaling before ADD instruction (offset) ADD - File #5 ALOGSCALE - 10 DIV - File #5 ALOGSCALE - 9
F8:10	- {RSV_PCT_LOOP02} Drexelbrook smart level transmitter in reciver tank 18-83in. for RSView ADD - File #5 ALOGSCALE - 10
F8:11	- {RSV_PCT_LOOP03} Drexelbrook open channel flow transmitter range: 0-50gpm for RSView DIV - File #5 ALOGSCALE - 11
F8:12	- {RSV_PCT_LOOP04} Signet paddle wheel flow transmitter range: 0-30gpm for RSView DIV - File #5 ALOGSCALE - 12
F8:13	- {RSV_PCT_LOOP05} System pressure transmitter range: 0-30psi for RSView DIV - File #5 ALOGSCALE - 13
F8:14	- {RSV_PCT_LOOP06} VFD speed range: 0-100% for RSView DIV - File #5 ALOGSCALE - 14
F8:15	- {RSV_PCT_LOOP07} Total system flow on magmeter range: 0-50GPM for RSView DIV - File #5 ALOGSCALE - 15 LEQ - File #10 PCT CNTRL - 3
F8:16	- {RSV_PCT_LOOP08} DP transmitter across process water filter range: 0-15psi for RSView DIV - File #5 ALOGSCALE - 16
F8:17	- {RSV_PCT_LOOP09} Bubbler Level on the weir tank range: 0-15" for RSView DIV - File #5 ALOGSCALE - 17
F8:18	- {RSV_PCT_LOOP10} Taylor DP flow transmitter on zone #5 wedge range: 0-30gpm for RSView DIV - File #5 ALOGSCALE - 18
F8:19	- {RSV_PCT_LOOP11} DP level transmitter on reactor pneumatic with P/I) for RSView DIV - File #5 ALOGSCALE - 19 GEQ - File #10 PCT CNTRL - 5

Cross Reference Report - Sorted by Address

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F8:20      - {RSV_PCT_LOOP12} Process water ph for RSView
            DIV - File #5 ALOGSCALE - 20
F8:21      - {RSV_PCT_LOOP13} Process water free chlorine residual range:
            0-2ppm for RSView
            DIV - File #5 ALOGSCALE - 21
F8:22      - {RSV_PCT_LOOP14} Spare AI range: 0-100% for RSView
            DIV - File #5 ALOGSCALE - 22
F8:23      - {RSV_PCT_LOOP15} Spare AI range: 0-100% for RSView
            DIV - File #5 ALOGSCALE - 23
F8:24      - {RSV_PCT_LOOP16} Spare AI range: 0-100% for RSView
            DIV - File #5 ALOGSCALE - 24
F8:25      - {RSV_PCT_LOOP17} Prosoft Honeywell DP flow trans. on zone #2
            venturi range: 0-30GPM for RSView
            DIV - File #5 ALOGSCALE - 25
F8:26      - {RSV_PCT_LOOP18} Prosoft Honeywell level trans. on storage
            tank range: 5.5-125.5" for RSView
            ADD - File #5 ALOGSCALE - 27
F8:27      - {RSV_PCT_LOOP19} Prosoft Honeywell level trans. on reciver
            tank range: 7-127" for RSView
            ADD - File #5 ALOGSCALE - 29
F8:28      - {RSV_PCT_LOOP20} Prosoft Honeywell pressure trans. for
            reactor range: 0-60PSI for RSView
            DIV - File #5 ALOGSCALE - 30
            GEQ - File #10 PCT CNTRL - 6
F8:29      - {RSV_PCT_LOOP21} Prosoft Honeywell temperature trans. room
            temp. range: 32-212deg F for RSView
            ADD - File #5 ALOGSCALE - 32
F8:30      - {RSV_PCT_LOOP22} Prosoft Honeywell temperature trans.
            process temp. range: 32-212deg F for RSView
            ADD - File #5 ALOGSCALE - 34
F8:31      - {RSV_PCT_LOOP23} Prosoft Honeywell temperature trans motor
            temp. range 32-212deg F for RSView
            ADD - File #5 ALOGSCALE - 36
F8:33      - ADD - File #5 ALOGSCALE - 27
            DIV - File #5 ALOGSCALE - 26
F8:34      - ADD - File #5 ALOGSCALE - 29
            DIV - File #5 ALOGSCALE - 28
F8:35      - ADD - File #5 ALOGSCALE - 32
            DIV - File #5 ALOGSCALE - 31
F8:36      - ADD - File #5 ALOGSCALE - 34
            DIV - File #5 ALOGSCALE - 33
F8:37      - ADD - File #5 ALOGSCALE - 36
            DIV - File #5 ALOGSCALE - 35
N10:0      - {BTR_R0_S3} BTR control block: analog input module rack 0
            slot 3
            BTR - File #4 ALOGCONFIG - 0
FILE N10:0 LEN:5 - BTR - File #4 ALOGCONFIG - 0
N10:0/15   - XIO - File #4 ALOGCONFIG - 0
FILE N10:0/15 LEN:5 - BTR - File #4 ALOGCONFIG - 0
N10:5      - {BTW_R0_S3} BTW control block: analog input module rack 0
            slot 3
            BTW - File #4 ALOGCONFIG - 1
FILE N10:5 LEN:5 - BTW - File #4 ALOGCONFIG - 1
N10:5/15   - XIO - File #4 ALOGCONFIG - 1
FILE N10:5/15 LEN:5 - BTW - File #4 ALOGCONFIG - 1
N10:10     - {BTR_DF_R0_S3} BTR data file: analog input module rack 0
            slot 3
            BTR - File #4 ALOGCONFIG - 0
FILE N10:10 LEN:12 - BTR - File #4 ALOGCONFIG - 0
N10:10/0   - XIC - File #4 ALOGCONFIG - 1
FILE N10:10/0 LEN:12 - BTR - File #4 ALOGCONFIG - 0
N10:14     - {SIMAIL} SIMULATOR ANALOG INPUT 1
            DIV - File #5 ALOGSCALE - 0
            MOV - File #3 TEST I/O - 0

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Cross Reference Report - Sorted by Address

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FILE N10:14 LEN:8 - BTR - File #4 ALOGCONFIG - 0
N10:15      - {SIMAI2} SIMULATOR ANALOG INPUT 2
             DIV - File #5 ALOGSCALE - 1
             MOV - File #3 TEST I/O - 1
FILE N10:15 LEN:7 - BTR - File #4 ALOGCONFIG - 0
N10:16      - {SIMAI3} SIMULATOR ANALOG INPUT 3
             DIV - File #5 ALOGSCALE - 2
             MOV - File #3 TEST I/O - 2
FILE N10:16 LEN:6 - BTR - File #4 ALOGCONFIG - 0
N10:17      - {SIMAI4} SIMULATOR ANALOG INPUT 4
             DIV - File #5 ALOGSCALE - 3
             MOV - File #3 TEST I/O - 3
FILE N10:17 LEN:5 - BTR - File #4 ALOGCONFIG - 0
N10:18      - {SIMAI5} SIMULATOR ANALOG INPUT 5
             DIV - File #5 ALOGSCALE - 4
FILE N10:18 LEN:4 - BTR - File #4 ALOGCONFIG - 0
N10:19      - {SIMAI6} SIMULATOR ANALOG INPUT 6
             DIV - File #5 ALOGSCALE - 5
FILE N10:19 LEN:3 - BTR - File #4 ALOGCONFIG - 0
N10:20      - {SIMAI7} SIMULATOR ANALOG INPUT 7
             DIV - File #5 ALOGSCALE - 6
FILE N10:20 LEN:2 - BTR - File #4 ALOGCONFIG - 0
N10:21      - {SIMAI8} SIMULATOR ANALOG INPUT 8
             DIV - File #5 ALOGSCALE - 7
FILE N10:21 LEN:1 - BTR - File #4 ALOGCONFIG - 0
N10:50      - {BTW_DF_ALL_AI} BTW Data Block: all analog input modules
             word #1
             BTW - File #4 ALOGCONFIG - 1, 3, 5, 12
FILE N10:50 LEN:39 - BTW - File #4 ALOGCONFIG - 1, 3, 5, 12
N10:100     - {BTR_R0_S5} BTR control block: analog output module rack 0
             slot 5
             BTR - File #4 ALOGCONFIG - 6
FILE N10:100 LEN:5 - BTR - File #4 ALOGCONFIG - 6
N10:100/15  - XIO - File #4 ALOGCONFIG - 6, 7
FILE N10:100/15 LEN:5 - BTR - File #4 ALOGCONFIG - 6
N10:105     - {BTW_R0_S5} BTW control block: analog output module rack 0
             slot 5
             BTW - File #4 ALOGCONFIG - 7
FILE N10:105 LEN:5 - BTW - File #4 ALOGCONFIG - 7
N10:105/15  - XIO - File #4 ALOGCONFIG - 6, 7
FILE N10:105/15 LEN:5 - BTW - File #4 ALOGCONFIG - 7
N10:110     - {BTR_DF_R0_S5} BTR Data File: analog output module rack 0
             slot 5
             BTR - File #4 ALOGCONFIG - 6
FILE N10:110 LEN:5 - BTR - File #4 ALOGCONFIG - 6
N10:116     - {SIMAO1} SIMULATOR ANALOG OUTPUT 1
             BTW - File #4 ALOGCONFIG - 7
             MOV - File #3 TEST I/O - 0
             File #6 ALOGOUT - 7
FILE N10:116 LEN:13 - BTW - File #4 ALOGCONFIG - 7
N10:117     - {SIMAO2} SIMULATOR ANALOG OUTPUT 2
             MOV - File #3 TEST I/O - 1
             File #6 ALOGOUT - 8
FILE N10:117 LEN:12 - BTW - File #4 ALOGCONFIG - 7
N10:118     - {SIMAO3} SIMULATOR ANALOG OUTPUT 3
             MOV - File #3 TEST I/O - 2
             File #6 ALOGOUT - 9
FILE N10:118 LEN:11 - BTW - File #4 ALOGCONFIG - 7
N10:119     - {SIMAO4} SIMULATOR ANALOG OUTPUT 4
             MOV - File #3 TEST I/O - 3
             File #6 ALOGOUT - 10
FILE N10:119 LEN:10 - BTW - File #4 ALOGCONFIG - 7
N10:200     - {BTR_R1_S7} BTR control block: analog output module rack 1
             slot 7

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      BTR - File #4 ALOGCONFIG - 8
FILE N10:200 LEN:5 - BTR - File #4 ALOGCONFIG - 8
N10:200/15 - XIO - File #4 ALOGCONFIG - 8, 9
FILE N10:200/15 LEN:5 - BTR - File #4 ALOGCONFIG - 8
N10:205 - {BTW_R1_S7} BTW control block: analog output module rack 1
      slot 7
      BTW - File #4 ALOGCONFIG - 9
FILE N10:205 LEN:5 - BTW - File #4 ALOGCONFIG - 9
N10:205/15 - XIO - File #4 ALOGCONFIG - 8, 9
FILE N10:205/15 LEN:5 - BTW - File #4 ALOGCONFIG - 9
N10:210 - {BTR_DF_R1_S7} BTR Data File: analog output module rack 1
      slot 7
      BTR - File #4 ALOGCONFIG - 8
FILE N10:210 LEN:5 - BTR - File #4 ALOGCONFIG - 8
N10:216 - {LOOP31} Speed ref to pump VFD range: 0-100%
      BTW - File #4 ALOGCONFIG - 9
      MUL - File #6 ALOGOUT - 0
FILE N10:216 LEN:13 - BTW - File #4 ALOGCONFIG - 9
N10:217 - {LOOP32} I/P zone #1 range 0 to 100%
      MOV - File #6 ALOGOUT - 1
FILE N10:217 LEN:12 - BTW - File #4 ALOGCONFIG - 9
N10:218 - {LOOP33} I/P in zone #2 & #3 range: 0-100%
      MOV - File #6 ALOGOUT - 2
FILE N10:218 LEN:11 - BTW - File #4 ALOGCONFIG - 9
N10:219 - {LOOP34} I/P in zone #5 range: 0-100%
      MOV - File #6 ALOGOUT - 3
FILE N10:219 LEN:10 - BTW - File #4 ALOGCONFIG - 9
N10:300 - {BTR_R1_S4} BTR control block: analog output module rack 1
      slot 4
      BTR - File #4 ALOGCONFIG - 10
FILE N10:300 LEN:5 - BTR - File #4 ALOGCONFIG - 10
N10:300/15 - XIO - File #4 ALOGCONFIG - 10, 11
FILE N10:300/15 LEN:5 - BTR - File #4 ALOGCONFIG - 10
N10:305 - {BTW_R1_S4} BTW control block: analog output module rack 1
      slot 4
      BTW - File #4 ALOGCONFIG - 11
FILE N10:305 LEN:5 - BTW - File #4 ALOGCONFIG - 11
N10:305/15 - XIO - File #4 ALOGCONFIG - 10, 11
FILE N10:305/15 LEN:5 - BTW - File #4 ALOGCONFIG - 11
N10:310 - {BTR_DF_R1_S4} BTR Data File: analog output module rack 1
      slot 4
      BTR - File #4 ALOGCONFIG - 10
FILE N10:310 LEN:5 - BTR - File #4 ALOGCONFIG - 10
N10:316 - {LOOP35} I/P reactor drain valve range: 0-100%
      BTW - File #4 ALOGCONFIG - 11
      MOV - File #6 ALOGOUT - 4
FILE N10:316 LEN:13 - BTW - File #4 ALOGCONFIG - 11
N10:317 - {LOOP36} EOv in zone #4 range: 0-100%
      MOV - File #6 ALOGOUT - 5
FILE N10:317 LEN:12 - BTW - File #4 ALOGCONFIG - 11
N10:318 - {LOOP37} PID1 Output on the Patch Panel
      MOV - File #11 PID - 7, 9
FILE N10:318 LEN:11 - BTW - File #4 ALOGCONFIG - 11
N10:319 - {LOOP38} Spare
      MOV - File #6 ALOGOUT - 6
FILE N10:319 LEN:10 - BTW - File #4 ALOGCONFIG - 11
N11:0 - {BTR_R1_S5} BTR control block: analog input module Rack 1
      slot 5
      BTR - File #4 ALOGCONFIG - 2
FILE N11:0 LEN:5 - BTR - File #4 ALOGCONFIG - 2
N11:0/0 - Power up bit
      XIC - File #4 ALOGCONFIG - 3
FILE N11:0/0 LEN:5 - BTR - File #4 ALOGCONFIG - 2
N11:0/15 - XIO - File #4 ALOGCONFIG - 2

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Cross Reference Report - Sorted by Address

DIV - File #5 ALOGSCALE - 18
 FILE N11:65 LEN:7 - BTR - File #4 ALOGCONFG - 4
 N11:66 - {LOOP11} DP level transmitter on reactor pneumatic with P/I
 DIV - File #5 ALOGSCALE - 19
 FILE N11:66 LEN:6 - BTR - File #4 ALOGCONFG - 4
 N11:67 - {LOOP12} Process water ph
 DIV - File #5 ALOGSCALE - 20
 FILE N11:67 LEN:5 - BTR - File #4 ALOGCONFG - 4
 N11:68 - {LOOP13} Process water free chlorine residual range: 0-2ppm
 DIV - File #5 ALOGSCALE - 21
 FILE N11:68 LEN:4 - BTR - File #4 ALOGCONFG - 4
 N11:69 - {LOOP14} PID1 Input on the Patch Panel
 PID - File #11 PID - 1
 DIV - File #5 ALOGSCALE - 22
 FILE N11:69 LEN:3 - BTR - File #4 ALOGCONFG - 4
 N11:70 - {LOOP15} Spare
 DIV - File #5 ALOGSCALE - 23
 FILE N11:70 LEN:2 - BTR - File #4 ALOGCONFG - 4
 N11:71 - {LOOP16} Spare
 DIV - File #5 ALOGSCALE - 24
 FILE N11:71 LEN:1 - BTR - File #4 ALOGCONFG - 4
 N11:200 - {PID1_CB} PID1 Control Block
 PID - File #11 PID - 1
 FILE N11:200 LEN:23 - PID - File #11 PID - 1
 N11:200/1 - {PID1 AUTO MAN} PID1 Auto/Manual control Bit for PID1
 XIC - File #11 PID - 3, 5, 6, 8, 9
 XIO - File #11 PID - 2, 4, 7
 FILE N11:200/1 LEN:23 - PID - File #11 PID - 1
 N11:200/4 - {PID1 SOP} PID1 Controls the set output Bit in the PID
 control block
 OTE - File #11 PID - 3
 FILE N11:200/4 LEN:23 - PID - File #11 PID - 1
 N11:206 - {PID1 FF} PID1 Feedforward
 MOV - File #11 PID - 2
 FILE N11:206 LEN:17 - PID - File #11 PID - 1
 N11:210 - {PID1_SO} PID1 Setout 0-100%
 ADD - File #11 PID - 6
 SUB - File #11 PID - 5
 MUL - File #11 PID - 8
 MOV - File #11 PID - 4
 LES - File #11 PID - 6
 GRT - File #11 PID - 5
 FILE N11:210 LEN:13 - PID - File #11 PID - 1
 N11:216 - PID1 Control Block reserved
 MOV - File #11 PID - 4
 FILE N11:216 LEN:7 - PID - File #11 PID - 1
 N11:282 - {PID1_TB} PID1 Tieback
 PID - File #11 PID - 1
 N11:283 - {PID1_HTB} PID1 Holds -120 for the feedforward if in Auto
 MOV - File #11 PID - 2
 N11:284 - {PID1_MM} PID1 used for the output of the manual on the PID1
 MUL - File #11 PID - 8
 MOV - File #11 PID - 9
 N12:0 - - Data File - S:16
 FILE N12:0 LEN:48 - - Data File - S:16
 N13:0 - {BTR R1 S0} Block Transfer Read control block
 BTR - File #4 ALOGCONFG - 13
 FILE N13:0 LEN:5 - BTR - File #4 ALOGCONFG - 13
 N13:0/15 - XIO - File #4 ALOGCONFG - 13
 FILE N13:0/15 LEN:5 - BTR - File #4 ALOGCONFG - 13
 N13:5 - {BTW R1 S0} Block Transfer Write control block
 BTW - File #4 ALOGCONFG - 12
 FILE N13:5 LEN:5 - BTW - File #4 ALOGCONFG - 12
 N13:5/15 - XIO - File #4 ALOGCONFG - 12

Cross Reference Report - Sorted by Address

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FILE N13:5/15 LEN:5 - BTW - File #4 ALOGCONFIG - 12
N13:10      - Read data block
              BTR - File #4 ALOGCONFIG - 13
FILE N13:10 LEN:12 - BTR - File #4 ALOGCONFIG - 13
N13:10/0    - Power up bit
              XIC - File #4 ALOGCONFIG - 12
FILE N13:10/0 LEN:12 - BTR - File #4 ALOGCONFIG - 13
N13:14      - {LOOP_17}
              DIV - File #5 ALOGSCALE - 25
FILE N13:14 LEN:8 - BTR - File #4 ALOGCONFIG - 13
N13:15      - {LOOP_18}
              DIV - File #5 ALOGSCALE - 26
FILE N13:15 LEN:7 - BTR - File #4 ALOGCONFIG - 13
N13:16      - {LOOP_19}
              DIV - File #5 ALOGSCALE - 28
FILE N13:16 LEN:6 - BTR - File #4 ALOGCONFIG - 13
N13:17      - {LOOP_20}
              DIV - File #5 ALOGSCALE - 30
FILE N13:17 LEN:5 - BTR - File #4 ALOGCONFIG - 13
N13:18      - {LOOP_21}
              DIV - File #5 ALOGSCALE - 31
FILE N13:18 LEN:4 - BTR - File #4 ALOGCONFIG - 13
N13:19      - {LOOP_22}
              DIV - File #5 ALOGSCALE - 33
FILE N13:19 LEN:3 - BTR - File #4 ALOGCONFIG - 13
N13:20      - {LOOP_23}
              DIV - File #5 ALOGSCALE - 35
FILE N13:20 LEN:2 - BTR - File #4 ALOGCONFIG - 13
B14:3/0     - {RSV_PCT_DO01} VFD run - RSView control bit for output
              O:013/0
              XIC - File #7 VFDCNTRL - 0
B14:3/1     - {RSV_PCT_DO02} Makeup pump run - RSView control bit for
              output O:013/1
              XIC - File #10 PCT_CNTRL - 8
B14:3/2     - {RSV_PCT_DO03} Weir bypass valve - RSView control bit for
              output O:013/2
              XIC - File #10 PCT_CNTRL - 9
B14:3/3     - {RSV_PCT_DO04} Reactor vent Sol - RSView control bit for
              output O:013/3
              XIC - File #10 PCT_CNTRL - 10
B14:3/4     - {RSV_PCT_DO05} Reactor press. Sol - RSView control bit for
              output O:013/4
              XIC - File #10 PCT_CNTRL - 11
B14:3/5     - {RSV_PCT_DO06} Stand pipe fill Sol- RSView control bit for
              output O:013/5
              XIC - File #10 PCT_CNTRL - 12
B14:3/6     - {RSV_PCT_DO07} Controlled Recpt. 1- RSView control bit for
              output O:013/6
              XIC - File #10 PCT_CNTRL - 13
B14:3/7     - {RSV_PCT_DO08} Controlled Recpt. 2- RSView control bit for
              output O:013/7
              XIC - File #10 PCT_CNTRL - 14
B14:3/8     - {RSV_PCT_DO09} Alarm Horn - RSView control bit for output
              O:013/10
              XIC - File #10 PCT_CNTRL - 15
B14:3/10    - {RSV_PCT_DO11} Compressor Stop- RSView control bit for
              output O:013/12
              XIC - File #10 PCT_CNTRL - 18
B14:3/11    - {RSV_PCT_DO12} Compressor Start- RSView control bit for
              output O:013/13
              XIC - File #10 PCT_CNTRL - 19
B14:3/12    - {RSV_PCT_DO13} Drain Valve SOL - RSView control bit for
              output O:013/14
              XIC - File #10 PCT_CNTRL - 20

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B14:3/13	- {RSV_PCT_DO14} Alarm Light - RSView control bit for output O:013/15 XIC - File #10 PCT CNTRL - 17
N16:0	- {RSV_SIM_AO1} Simulator AO1 scaled 0-100% from RSView MOV - File #6 ALOGOUT - 7
N16:1	- {RSV_SIM_AO2} Simulator AO2 scaled 0-100% from RSView MOV - File #6 ALOGOUT - 8
N16:2	- {RSV_SIM_AO3} Simulator AO3 scaled 0-100% from RSView MOV - File #6 ALOGOUT - 9
N16:3	- {RSV_SIM_AO4} Simulator AO4 scaled 0-100% from RSView MOV - File #6 ALOGOUT - 10
N16:10	- {PID1_CV} PID Control variable PID - File #11 PID - 1 MOV - File #11 PID - 7
N16:30	- {RSV_PCT_LOOP31} Loop 31 Speed ref to pump VFD scaled 0-100% from RSView MUL - File #6 ALOGOUT - 0
N16:31	- {RSV_PCT_LOOP32} Loop 32 I/P in zone #1 scaled 0-100% from RSView MOV - File #6 ALOGOUT - 1
N16:32	- {RSV_PCT_LOOP33} Loop 33 I/P in zone #2 scaled 0-100% from RSView MOV - File #6 ALOGOUT - 2
N16:33	- {RSV_PCT_LOOP34} Loop 34 I/P in zone #5 scaled 0-100% from RSView MOV - File #6 ALOGOUT - 3
N16:34	- {RSV_PCT_LOOP35} Loop 35 I/P reactor drain scaled 0-100% from RSView MOV - File #6 ALOGOUT - 4
N16:35	- {RSV_PCT_LOOP36} Loop 36 EOv in zone #4 scaled 0-100% from RSView MOV - File #6 ALOGOUT - 5
N16:37	- {RSV_PCT_LOOP38} Loop 38 spare AO scaled 0-100% from RSView MOV - File #6 ALOGOUT - 6
N30:0	- MOV - File #2 MCP - 7 NEQ - File #2 MCP - 7
U:3	- JSR - File #2 MCP - 0
U:4	- JSR - File #2 MCP - 1
U:5	- JSR - File #2 MCP - 2
U:6	- JSR - File #2 MCP - 3
U:7	- JSR - File #2 MCP - 4
U:10	- JSR - File #2 MCP - 5
U:11	- JSR - File #2 MCP - 6

Address/Symbol Database

Address	Symbol	Scope	Description	S
			PID1 Control Block reserved	
			PID1 Control Block reserved	
B3:2/0	ALMBIT_ST_HL	Global	Alarm Bit 0 Storage Tank High Level	
B3:2/1	ALMBIT_ST_LL	Global	Alarm Bit 1 Storage Tank Low Level	
B3:2/2	ALMBIT_RT_HL	Global	Alarm Bit 2 Reciever Tank	
B3:2/3	ALMBIT_VFD_INTLK	Global	Alarm Bit 3 Safety Interlock For VFD	
B3:2/4	ALMBIT_RL_HL	Global	Alarm Bit 4 High Reactor Level	
B3:2/5	ALMBIT_RP_HL	Global	Alarm Bit 5 High Reactor Pressure	
B3:2/6	ALMBIT_SF_HL	Global	Alarm Bit 6 Low System Flow	
B3:3/0	RSV_BIT_00	Global	RSView cntrl bit 00 Alarm Acknowledge	
B3:3/1	RSV_BIT_01	Global	RSView cntrl bit 01 make up water pump off	
B3:3/2	RSV_BIT_02	Global	RSView cntrl bit 02	
B3:3/3	RSV_BIT_03	Global	RSView cntrl bit 03	
B3:3/4	RSV_BIT_04	Global	RSView cntrl bit 04	
B3:3/5	RSV_BIT_05	Global	RSView cntrl bit 05	
B3:3/6	RSV_BIT_06	Global	RSView cntrl bit 06	
B3:3/7	RSV_BIT_07	Global	RSView cntrl bit 07	
B3:3/8	RSV_BIT_08	Global	RSView cntrl bit 08	
B3:3/9	RSV_BIT_09	Global	RSView cntrl bit 09	
B3:3/10	RSV_BIT_10	Global	RSView cntrl bit 10	
B3:3/11	RSV_BIT_11	Global	RSView cntrl bit 11	
B3:3/12	RSV_BIT_12	Global	RSView cntrl bit 12	
B3:3/13	RSV_BIT_13	Global	RSView cntrl bit 13	
B3:3/14	RSV_BIT_14	Global	RSView cntrl bit 14	
B3:3/15	RSV_BIT_15	Global	RSView cntrl bit 15	
B11:0/1			Block Transfer Write configure bit	
B11:0/2			Block Transfer Write configure bit	
B14:0/0	RSV_SLOT2_00	Global	RSView control bit for local rack output 0:002/0	
B14:0/1	RSV_SLOT2_01	Global	RSView control bit for local rack output 0:002/1	
B14:0/2	RSV_SLOT2_02	Global	RSView control bit for local rack output 0:002/2	
B14:0/3	RSV_SLOT2_03	Global	RSView control bit for local rack output 0:002/3	
B14:0/4	RSV_SLOT2_04	Global	RSView control bit for local rack output 0:002/4	
B14:0/5	RSV_SLOT2_05	Global	RSView control bit for local rack output 0:002/5	
B14:0/6	RSV_SLOT2_06	Global	RSView control bit for local rack output 0:002/6	
B14:0/7	RSV_SLOT2_07	Global	RSView control bit for local rack output 0:002/7	
B14:0/8	RSV_SLOT2_10	Global	RSView control bit for local rack output 0:002/10	
B14:0/9	RSV_SLOT2_11	Global	RSView control bit for local rack output 0:002/11	
B14:0/10	RSV_SLOT2_12	Global	RSView control bit for local rack output 0:002/12	
B14:0/11	RSV_SLOT2_13	Global	RSView control bit for local rack output 0:002/13	
B14:0/12	RSV_SLOT2_14	Global	RSView control bit for local rack output 0:002/14	
B14:0/13	RSV_SLOT2_15	Global	RSView control bit for local rack output 0:002/15	
B14:0/14	RSV_SLOT2_16	Global	RSView control bit for local rack output 0:002/16	
B14:0/15	RSV_SLOT2_17	Global	RSView control bit for local rack output 0:002/17	
B14:1/0	RSV_SIM_D011	Global	RSView control bit for SIM lamp D011 output 0:004/0	
B14:1/1	RSV_SIM_D012	Global	RSView control bit for SIM lamp D012 output 0:004/1	
B14:1/2	RSV_SIM_D013	Global	RSView control bit for SIM lamp D013 output 0:004/2	
B14:1/3	RSV_SIM_D014	Global	RSView control bit for SIM lamp D014 output 0:004/3	
B14:1/4	RSV_SIM_D021	Global	RSView control bit for SIM lamp D021 output 0:004/4	
B14:1/5	RSV_SIM_D022	Global	RSView control bit for SIM lamp D022 output 0:004/5	
B14:1/6	RSV_SIM_D023	Global	RSView control bit for SIM lamp D023 output 0:004/6	
B14:1/7	RSV_SIM_D024	Global	RSView control bit for SIM lamp D024 output 0:004/7	
B14:1/8	RSV_SIM_D031	Global	RSView control bit for SIM lamp D031 output 0:004/10	
B14:1/9	RSV_SIM_D032	Global	RSView control bit for SIM lamp D032 output 0:004/11	
B14:1/10	RSV_SIM_D033	Global	RSView control bit for SIM lamp D033 output 0:004/12	
B14:1/11	RSV_SIM_D034	Global	RSView control bit for SIM lamp D034 output 0:004/13	
B14:1/12	RSV_SIM_D041	Global	RSView control bit for SIM lamp D041 output 0:004/14	
B14:1/13	RSV_SIM_D042	Global	RSView control bit for SIM lamp D042 output 0:004/15	
B14:1/14	RSV_SIM_D043	Global	RSView control bit for SIM lamp D043 output 0:004/16	
B14:1/15	RSV_SIM_D044	Global	RSView control bit for SIM lamp D044 output 0:004/17	
B14:3/0	RSV_PCT_D001	Global	VFD run - RSView control bit for output 0:013/0	
B14:3/1	RSV_PCT_D002	Global	Makeup pump run - RSView control bit for output 0:013/1	
B14:3/2	RSV_PCT_D003	Global	Weir bypass valve - RSView control bit for output 0:013/2	
B14:3/3	RSV_PCT_D004	Global	Reactor vent Sol - RSView control bit for output 0:013/3	
B14:3/4	RSV_PCT_D005	Global	Reactor press. Sol - RSView control bit for output 0:013/4	
B14:3/5	RSV_PCT_D006	Global	Stand pipe fill Sol- RSView control bit for output 0:013/5	
B14:3/6	RSV_PCT_D007	Global	Controlled Recpt. 1- RSView control bit for output 0:013/6	
B14:3/7	RSV_PCT_D008	Global	Controlled Recpt. 2- RSView control bit for output 0:013/7	
B14:3/8	RSV_PCT_D009	Global	Alarm Horn - RSView control bit for output 0:013/10	
B14:3/9	RSV_PCT_D010	Global	Alarm Light - RSView control bit for output 0:013/11	
B14:3/10	RSV_PCT_D011	Global	Compressor Stop- RSView control bit for output 0:013/12	
B14:3/11	RSV_PCT_D012	Global	Compressor Start- RSView control bit for output 0:013/13	
B14:3/12	RSV_PCT_D013	Global	Drain Valve SOL - RSView control bit for output 0:013/14	
B14:3/13	RSV_PCT_D014	Global	Alarm Light - RSView control bit for output 0:013/15	

Address/Symbol Database

Address	Symbol	Scope	Description	S
B14:3/14	RSV_PCT_DO15	Global	Spare - RSView control bit for output O:013/16	
B14:3/15	RSV_PCT_DO16	Global	Spare - RSView control bit for output O:013/17	
F8:0	RSV_SIM_AI01	Global	Simulator AI1 scaled 0-100% for RSView	
F8:1	RSV_SIM_AI02	Global	Simulator AI2 scaled 0-100% for RSView	
F8:2	RSV_SIM_AI03	Global	Simulator AI3 scaled 0-100% for RSView	
F8:3	RSV_SIM_AI04	Global	Simulator AI4 scaled 0-100% for RSView	
F8:4	RSV_SIM_AI05	Global	Simulator AI5 scaled 0-100% for RSView	
F8:5	RSV_SIM_AI06	Global	Simulator AI6 scaled 0-100% for RSView	
F8:6	RSV_SIM_AI07	Global	Simulator AI7 scaled 0-100% for RSView	
F8:7	RSV_SIM_AI08	Global	Simulator AI8 scaled 0-100% for RSView	
F8:8	RSV_PCT_LOOP01	Global	Drexelbrook level transmitter in storage tank range: 0-120in. for RSView	
F8:9	LOOP2A	Global	Receiver tank level scaling before ADD instruction (offset)	
F8:10	RSV_PCT_LOOP02	Global	Drexelbrook smart level transmitter in reciver tank 18-83in. for RSView	
F8:11	RSV_PCT_LOOP03	Global	Drexelbrook open channel flow transmitter range: 0-50gpm for RSView	
F8:12	RSV_PCT_LOOP04	Global	Signet paddle wheel flow transmitter range: 0-30gpm for RSView	
F8:13	RSV_PCT_LOOP05	Global	System pressure transmitter range: 0-30psi for RSView	
F8:14	RSV_PCT_LOOP06	Global	VFD speed range: 0-100% for RSView	
F8:15	RSV_PCT_LOOP07	Global	Total system flow on magmeter range: 0-50GPM for RSView	
F8:16	RSV_PCT_LOOP08	Global	DP transmitter across process water filter range: 0-15psi for RSView	
F8:17	RSV_PCT_LOOP09	Global	Bubbler Level on the weir tank range: 0-15" for RSView	
F8:18	RSV_PCT_LOOP10	Global	Taylor DP flow transmitter on zone #5 wedge range: 0-30gpm for RSView	
F8:19	RSV_PCT_LOOP11	Global	DP level transmitter on reactor pneumatic with P/I) for RSView	
F8:20	RSV_PCT_LOOP12	Global	Process water ph for RSView	
F8:21	RSV_PCT_LOOP13	Global	Process water free chlorine residual range: 0-2ppm for RSView	
F8:22	RSV_PCT_LOOP14	Global	Spare AI range: 0-100% for RSView	
F8:23	RSV_PCT_LOOP15	Global	Spare AI range: 0-100% for RSView	
F8:24	RSV_PCT_LOOP16	Global	Spare AI range: 0-100% for RSView	
F8:25	RSV_PCT_LOOP17	Global	Prosoft Honeywell DP flow trans. on zone #2 venturi range: 0-30GPM for RSView	
F8:26	RSV_PCT_LOOP18	Global	Prosoft Honeywell level trans. on storage tank range: 5.5-125.5" for RSView	
F8:27	RSV_PCT_LOOP19	Global	Prosoft Honeywell level trans. on reciver tank range: 7-127" for RSView	
F8:28	RSV_PCT_LOOP20	Global	Prosoft Honeywell pressure trans. for reactor range: 0-60PSI for RSView	
F8:29	RSV_PCT_LOOP21	Global	Prosoft Honeywell temperature trans. room temp. range: 32-212deg F for RSView	
F8:30	RSV_PCT_LOOP22	Global	Prosoft Honeywell temperature trans. process temp. range: 32-212deg F for RSView	
F8:31	RSV_PCT_LOOP23	Global	Prosoft Honeywell temperature trans motor temp. range 32-212deg F for RSView	
F8:32	RSV_PCT_LOOP24	Global	Spare Prosoft Honeywell for RSView	
I:001/0	SIMDI1	Global	SIMULATOR SW1	
I:001/1	SIMDI2	Global	SIMULATOR SW2	
I:001/2	SIMDI3	Global	SIMULATOR SW3	
I:001/3	SIMDI4	Global	SIMULATOR SW4	
I:001/4	SIMDI5	Global	SIMULATOR SW5	
I:001/5	SIMDI6	Global	SIMULATOR SW6	
I:001/6	SIMDI7	Global	SIMULATOR SW7	
I:001/7	SIMDI8	Global	SIMULATOR SW8	
I:001/10	SIMMI1	Global	SIMULATOR MI-1	
I:001/11	SIMMI2	Global	SIMULATOR MI-2	
I:001/12	SIMMI3	Global	SIMULATOR MI-3	
I:001/13	SIMMI4	Global	SIMULATOR MI-4	
I:011/0	DI01	Global	Flow switch near rotameter	
I:011/1	DI02	Global	Flow switch on storage tank	
I:011/2	DI03	Global	Pressure switch on reactor vessel	
I:011/3			Floata switch on storage tank (makeup water on)	
I:011/4	DI05	Global	Floata switch on storage tank (makeup water off)	
I:011/5	DI06	Global	Floata switch on storage tank (high limit)	
I:011/6	DI07	Global	Ultrasonic level probe on receiver (high limit)	
I:011/7	DI08	Global	Floata switch on stand pipe (fill start)	
I:011/10	DI09	Global	Floata switch on stand pipe (fill stop)	
I:011/11	DI10	Global	Floata switch on large stand pipe (high limit)	
I:011/12	DI11	Global	Magnetek point level control on large stand pipe (high)	
I:011/13	DI12	Global	Magnetek point level control on large stand pipe (low)	
I:011/14	DI13	Global	Run contact for VFD	
I:011/15	DI14	Global	Fault contact for VFD	
I:011/16	DI15	Global	Valve open contact from EOVS	
I:011/17	DI16	Global	Valve closed contact from EOVS	
I:012/0	DI17	Global	High alarm point from Honeywell controller #1	
I:012/1	DI18	Global	Low alarm point from Honeywell controller #1	
I:012/2	DI19	Global	High alarm piont from Honeywell controller #2	
I:012/3	DI20	Global	Low alarm piont from Honeywell controller #2	
I:012/4	DI21	Global	PDP Auto/ Off/hand switch (Auto)	
I:012/5	DI22	Global	PDP Auto/ Off/hand switch (Hand)	
I:012/6	DI23	Global	PDP 3 pos.selector switch right	
I:012/7	DI24	Global	PDP 3 pos.selector switch left	
I:012/10	DI25	Global	PDP Selector switch SPST Alarm Acknowledge	
I:012/11	DI26	Global	PDP Selector switch SPST Horn Disable	
I:012/12	DI27	Global	Spare	
I:012/13	DI28	Global	Spare	
I:012/14	DI29	Global	Spare	

Address/Symbol Database

Address	Symbol	Scope	Description	S
I:012/15	DI30	Global	Spare	
I:012/16	DI31	Global	Spare	
I:012/17	DI32	Global	Spare	
N7:310			Write data block	
N7:410			Read data block	
N7:410/0			Power up bit	
N10:0	BTR_R0_S3	Global	BTR control block: analog input module rack 0 slot 3	
N10:0/0			Power up bit	
N10:1			BTR control block reserved	
N10:2			BTR control block reserved	
N10:3			BTR control block reserved	
N10:4			BTR control block reserved	
N10:5	BTW_R0_S3	Global	BTW control block: analog input module rack 0 slot 3	
N10:6			BTW control block reserved	
N10:7			BTW control block reserved	
N10:8			BTW control block reserved	
N10:9			BTW control block reserved	
N10:10	BTR_DF_R0_S3	Global	BTR data file: analog input module rack 0 slot 3	
N10:11			BTR data file reserved	
N10:12			BTR data file reserved	
N10:13			BTR data file reserved	
N10:14	SIMAI1	Global	SIMULATOR ANALOG INPUT 1	
N10:15	SIMAI2	Global	SIMULATOR ANALOG INPUT 2	
N10:16	SIMAI3	Global	SIMULATOR ANALOG INPUT 3	
N10:17	SIMAI4	Global	SIMULATOR ANALOG INPUT 4	
N10:18	SIMAI5	Global	SIMULATOR ANALOG INPUT 5	
N10:19	SIMAI6	Global	SIMULATOR ANALOG INPUT 6	
N10:20	SIMAI7	Global	SIMULATOR ANALOG INPUT 7	
N10:21	SIMAI8	Global	SIMULATOR ANALOG INPUT 8	
N10:50	BTW_DF_ALL_AI	Global	BTW Data Block: all analog input modules word #1	
N10:51			BTW Data Block: all analog input modules word #2	
N10:52			**BTW Data Block: all analog input modules word #3**	
N10:53			BTW Data Block: all analog input modules word #4	
N10:54			BTW Data Block reserved	
N10:55			BTW Data Block reserved	
N10:56			BTW Data Block reserved	
N10:57			BTW Data Block reserved	
N10:58			BTW Data Block reserved	
N10:59			BTW Data Block reserved	
N10:60			BTW Data Block reserved	
N10:61			BTW Data Block reserved	
N10:62			BTW Data Block reserved	
N10:63			BTW Data Block reserved	
N10:64			BTW Data Block reserved	
N10:65			BTW Data Block reserved	
N10:66			BTW Data Block reserved	
N10:67			BTW Data Block reserved	
N10:68			BTW Data Block reserved	
N10:69			BTW Data Block reserved	
N10:70			BTW Data Block reserved	
N10:71			BTW Data Block reserved	
N10:100	BTR_R0_S5	Global	BTR control block: analog output module rack 0 slot 5	
N10:101			BTR control block reserved	
N10:102			BTR control block reserved	
N10:103			BTR control block reserved	
N10:104			BTR control block reserved	
N10:105	BTW_R0_S5	Global	BTW control block: analog output module rack 0 slot 5	
N10:106			BTW control block reserved	
N10:107			BTW control block reserved	
N10:108			BTW control block reserved	
N10:109			BTW control block reserved	
N10:110	BTR_DF_R0_S5	Global	BTR Data File: analog output module rack 0 slot 5	
N10:111			BTR Data File reserved	
N10:112			BTR Data File reserved	
N10:113			BTR Data File reserved	
N10:114			BTR Data File reserved	
N10:115			The next address starts the BTW data file for AO module rack 0 slot 5	
N10:116	SIMAO1	Global	SIMULATOR ANALOG OUTPUT 1	
N10:117	SIMAO2	Global	SIMULATOR ANALOG OUTPUT 2	
N10:118	SIMAO3	Global	SIMULATOR ANALOG OUTPUT 3	
N10:119	SIMAO4	Global	SIMULATOR ANALOG OUTPUT 4	
N10:120			BTW Data File config. word	
N10:121			BTW Data File Chan. 1 low scale	
N10:122			BTW Data File Chan. 1 high scale	
N10:123			BTW Data File Chan. 2 low scale	
N10:124			BTW Data File Chan. 2 high scale	

Address/Symbol Database

Address	Symbol	Scope	Description	S
N10:125			BTW Data File Chan. 3 low scale	
N10:126			BTW Data File Chan. 3 high scale	
N10:127			BTW Data File Chan. 4 low scale	
N10:128			BTW Data File Chan. 4 high scale	
N10:200	BTR_R1_S7	Global	BTR control block: analog output module rack 1 slot 7	
N10:201			BTR control block reserved	
N10:202			BTR control block reserved	
N10:203			BTR control block reserved	
N10:204			BTR control block reserved	
N10:205	BTW_R1_S7	Global	BTW control block: analog output module rack 1 slot 7	
N10:206			BTW control block reserved	
N10:207			BTW control block reserved	
N10:208			BTW control block reserved	
N10:209			BTW control block reserved	
N10:210	BTR_DF_R1_S7	Global	BTR Data File: analog output module rack 1 slot 7	
N10:211			BTR Data File reserved	
N10:212			BTR Data File reserved	
N10:213			BTR Data File reserved	
N10:214			BTR Data File reserved	
N10:215			The next address starts the BTW data file for AO module rack 1 slot 7	
N10:216	LOOP31	Global	Speed ref to pump VFD range: 0-100%	
N10:217	LOOP32	Global	I/P zone #1 range 0 to 100%	
N10:218	LOOP33	Global	I/P in zone #2 & #3 range: 0-100%	
N10:219	LOOP34	Global	I/P in zone #5 range: 0-100%	
N10:220			BTW Data File config. word	
N10:221			BTW Data File Chan. 1 low scale	
N10:222			BTW Data File Chan. 1 high scale	
N10:223			BTW Data File Chan. 2 low scale	
N10:224			BTW Data File Chan. 2 high scale	
N10:225			BTW Data File Chan. 3 low scale	
N10:226			BTW Data File Chan. 3 high scale	
N10:227			BTW Data File Chan. 4 low scale	
N10:228			BTW Data File Chan. 4 high scale	
N10:300	BTR_R1_S4	Global	BTR control block: analog output module rack 1 slot 4	
N10:301			BTR control block reserved	
N10:302			BTR control block reserved	
N10:303			BTR control block reserved	
N10:304			BTR control block reserved	
N10:305	BTW_R1_S4	Global	BTW control block: analog output module rack 1 slot 4	
N10:306			BTW control block reserved	
N10:307			BTW control block reserved	
N10:308			BTW control block reserved	
N10:309			BTW control block reserved	
N10:310	BTR_DF_R1_S4	Global	BTR Data File: analog output module rack 1 slot 4	
N10:311			BTR Data File reserved	
N10:312			BTR Data File reserved	
N10:313			BTR Data File reserved	
N10:314			BTR Data File reserved	
N10:315			The next address starts the BTW data file for AO module rack 1 slot 4	
N10:316	LOOP35	Global	I/P reactor drain valve range: 0-100%	
N10:317	LOOP36	Global	EOV in zone #4 range: 0-100%	
N10:318	LOOP37	Global	PID1 Output on the Patch Panal	
N10:319	LOOP38	Global	Spare	
N10:320			BTW Data File config. word	
N10:321			BTW Data File Chan. 1 low scale	
N10:322			BTW Data File Chan. 1 high scale	
N10:323			BTW Data File Chan. 2 low scale	
N10:324			BTW Data File Chan. 2 high scale	
N10:325			BTW Data File Chan. 3 low scale	
N10:326			BTW Data File Chan. 3 high scale	
N10:327			BTW Data File Chan. 4 low scale	
N10:328			BTW Data File Chan. 4 high scale	
N11:0	BTR_R1_S5	Global	BTR control block: analog input module Rack 1 slot 5	
N11:0/0			Power up bit	
N11:1			BTR control block reserved	
N11:2			BTR control block reserved	
N11:3			BTR control block reserved	
N11:4			BTR control block reserved	
N11:5	BTW_R1_S5	Global	BTW control block: analog input module rack 1 slot 5	
N11:6			BTW control block reserved	
N11:7			BTW control block reserved	
N11:8			BTW control block reserved	
N11:9			BTW control block reserved	
N11:10	BTR_DF_R1_S5	Global	BTR data file: analog input module rack 1 slot 5	
N11:10/0			Power up bit	
N11:11			BTR data file reserved	

Address/Symbol Database

Address	Symbol	Scope	Description	S
N11:12			BTR data file reserved	
N11:13			BTR data file reserved	
N11:14	LOOP1	Global	Drexelbrook level transmitter in storage tank range: 0-120in.	
N11:15	LOOP2	Global	Drexelbrook smart level transmitter in reciver tank 18-83in.	
N11:16	LOOP3	Global	Drexelbrook open channel flow transmitter range: 0-50gpm	
N11:17	LOOP4	Global	Signet paddle wheel flow transmitter range: 0-30gpm	
N11:18	LOOP5	Global	System pressure transmitter range: 0-30psi	
N11:19	LOOP6	Global	VFD speed range: 0-100%	
N11:20	LOOP7	Global	Total system flow on magmeter range: 0-50GPM	
N11:21	LOOP8	Global	DP transmitter across process water filter range: 0-15in.	
N11:50	BTR_R1_S6	Global	BTR control block: analog input module Rack 1 slot 6	
N11:50/0			Power up bit	
N11:51			BTR control block reserved	
N11:52			BTR control block reserved	
N11:53			BTR control block reserved	
N11:54			BTR control block reserved	
N11:55	BTW_R1_S6	Global	BTW control block: analog input module rack 1 slot 6	
N11:56			BTW control block reserved	
N11:57			BTW control block reserved	
N11:58			BTW control block reserved	
N11:59			BTW control block reserved	
N11:60	BTR_DF_R1_S6	Global	BTR data file: analog input module rack 1 slot 6	
N11:60/0			Power up bit	
N11:61			BTR data file reserved	
N11:62			BTR data file reserved	
N11:63			BTR data file reserved	
N11:64	LOOP9	Global	Bubbler level transmitter on weir tank range: 0-15in.	
N11:65	LOOP10	Global	Taylor DP flow transmitter on zone #5 wedge range: 0-30gpm	
N11:66	LOOP11	Global	DP level transmitter on reactor pneumatic with P/I)	
N11:67	LOOP12	Global	Process water ph	
N11:68	LOOP13	Global	Process water free chlorine residual range: 0-2ppm	
N11:69	LOOP14	Global	PID1 Input on the Patch Panel	
N11:70	LOOP15	Global	Spare	
N11:71	LOOP16	Global	Spare	
N11:100			Read data block for Prosoft AI module Rack 1 slot 9	
N11:100/0			Power up bit	
N11:105			Block Transfer Write control block	
N11:110			Read data block	
N11:110/0			Power up bit	
N11:114	LOOP17	Global	Prosoft Honeywell DP flow trans. on zone #2 venturi range: 0-30GPM	
N11:114/0			Power up bit	
N11:115	LOOP18	Global	Prosoft Honeywell level trans. on storage tank range: 5.5-125.5"	
N11:116	LOOP19	Global	Prosoft Honeywell level trans. on reciver tank range: 7-127"	
N11:117	LOOP20	Global	Prosoft Honeywell pressure trans. for reactor range: 0-60PSI	
N11:118	LOOP21	Global	Prosoft Honeywell temperature trans. room temp. range: 32-212deg F	
N11:119	LOOP22	Global	Prosoft Honeywell temperature trans. process temp. range: 32-212deg F	
N11:120	LOOP23	Global	Prosoft Honeywell temperature trans motor temp. range 32-212deg F	
N11:121	LOOP24	Global	Prosoft Honeywell Spare	
N11:200	PID1_CB	Global	PID1 Control Block	
N11:200/1	PID1_AUTO_MAN	Global	PID1 Auto/Manual control Bit for PID1	
N11:200/4	PID1_SOP	Global	PID1 Controls the set output Bit in the PID control block	
N11:201			PID1 Control Block reserved	
N11:202	PID1_SP	Global	PID1 setpoint	
N11:203			PID1 Control Block reserved	
N11:204			PID1 Control Block reserved	
N11:205			PID1 Control Block reserved	
N11:206	PID1_FF	Global	PID1 Feedforward	
N11:207			PID1 Control Block reserved	
N11:208			PID1 Control Block reserved	
N11:209			PID1 Control Block reserved	
N11:210	PID1_SO	Global	PID1 Setout 0-100%	
N11:211			PID1 Control Block reserved	
N11:212			PID1 Control Block reserved	
N11:213			PID1 Control Block reserved	
N11:214	PID1_PV	Global	PID1 Procces Variable	
N11:215			PID1 Control Block reserved	
N11:216			PID1 Control Block reserved	
N11:217			PID1 Control Block reserved	
N11:218			PID1 Control Block reserved	
N11:219			PID1 Control Block reserved	
N11:220			PID1 Control Block reserved	
N11:221			PID1 Control Block reserved	
N11:222			PID1 Control Block reserved	
N11:223			PID1 Control Block reserved	
N11:224			PID1 Control Block reserved	
N11:225			PID1 Control Block reserved	

Address/Symbol Database

Address	Symbol	Scope	Description	S
N11:226			PID1 Control Block reserved	
N11:227			PID1 Control Block reserved	
N11:228			PID1 Control Block reserved	
N11:229			PID1 Control Block reserved	
N11:230			PID1 Control Block reserved	
N11:231			PID1 Control Block reserved	
N11:232			PID1 Control Block reserved	
N11:233			PID1 Control Block reserved	
N11:234			PID1 Control Block reserved	
N11:235			PID1 Control Block reserved	
N11:236			PID1 Control Block reserved	
N11:237			PID1 Control Block reserved	
N11:238			PID1 Control Block reserved	
N11:239			PID1 Control Block reserved	
N11:240			PID1 Control Block reserved	
N11:241			PID1 Control Block reserved	
N11:242			PID1 Control Block reserved	
N11:243			PID1 Control Block reserved	
N11:244			PID1 Control Block reserved	
N11:245			PID1 Control Block reserved	
N11:246			PID1 Control Block reserved	
N11:247			PID1 Control Block reserved	
N11:248			PID1 Control Block reserved	
N11:249			PID1 Control Block reserved	
N11:250			PID1 Control Block reserved	
N11:251			PID1 Control Block reserved	
N11:252			PID1 Control Block reserved	
N11:253			PID1 Control Block reserved	
N11:254			PID1 Control Block reserved	
N11:255			PID1 Control Block reserved	
N11:256			PID1 Control Block reserved	
N11:258			PID1 Control Block reserved	
N11:259			PID1 Control Block reserved	
N11:260			PID1 Control Block reserved	
N11:261			PID1 Control Block reserved	
N11:262			PID1 Control Block reserved	
N11:263			PID1 Control Block reserved	
N11:265			PID1 Control Block reserved	
N11:266			PID1 Control Block reserved	
N11:267			PID1 Control Block reserved	
N11:268			PID1 Control Block reserved	
N11:269			PID1 Control Block reserved	
N11:270			PID1 Control Block reserved	
N11:271			PID1 Control Block reserved	
N11:272			PID1 Control Block reserved	
N11:273			PID1 Control Block reserved	
N11:274			PID1 Control Block reserved	
N11:275			PID1 Control Block reserved	
N11:276			PID1 Control Block reserved	
N11:277			PID1 Control Block reserved	
N11:278			PID1 Control Block reserved	
N11:279			PID1 Control Block reserved	
N11:280			PID1 Control Block reserved	
N11:281			PID1 Control Block reserved	
N11:282	PID1_TB	Global	PID1 Tieback	
N11:283	PID1_HTB	Global	PID1 Holds -120 for the feedforward if in Auto	
N11:284	PID1_MM	Global	PID1 used for the output of the manual on the PID1	
N13:0	BTR_R1_S0	Global	Block Transfer Read control block	
N13:0/0			Power up bit	
N13:0/15				
N13:5	BTW_R1_S0	Global	Block Transfer Write control block	
N13:10			Read data block	
N13:10/0			Power up bit	
N13:14	LOOP_17	Global		
N13:15	LOOP_18	Global		
N13:16	LOOP_19	Global		
N13:17	LOOP_20	Global		
N13:18	LOOP_21	Global		
N13:19	LOOP_22	Global		
N13:20	LOOP_23	Global		
N13:21	LOOP_24	Global	Spare	
N16:0	RSV_SIM_A01	Global	Simulator A01 scaled 0-100% from RSView	
N16:1	RSV_SIM_A02	Global	Simulator A02 scaled 0-100% from RSView	
N16:2	RSV_SIM_A03	Global	Simulator A03 scaled 0-100% from RSView	
N16:3	RSV_SIM_A04	Global	Simulator A04 scaled 0-100% from RSView	
N16:10	PID1_CV	Global	PID Control variable	

Address/Symbol Database

Address	Symbol	Scope	Description	S
N16:30	RSV_PCT_LOOP31	Global	Loop 31 Speed ref to pump VFD scaled 0-100% from RSView	
N16:31	RSV_PCT_LOOP32	Global	Loop 32 I/P in zone #1 scaled 0-100% from RSView	
N16:32	RSV_PCT_LOOP33	Global	Loop 33 I/P in zone #2 scaled 0-100% from RSView	
N16:33	RSV_PCT_LOOP34	Global	Loop 34 I/P in zone #5 scaled 0-100% from RSView	
N16:34	RSV_PCT_LOOP35	Global	Loop 35 I/P reactor drain scaled 0-100% from RSView	
N16:35	RSV_PCT_LOOP36	Global	Loop 36 EOv in zone #4 scaled 0-100% from RSView	
N16:36	RSV_PCT_LOOP37	Global	Loop 37 spare AO scaled 0-100% from RSView	
N16:37	RSV_PCT_LOOP38	Global	Loop 38 spare AO scaled 0-100% from RSView	
N27:0			Block Transfer Read control block	
N27:100			Block Transfer Write control block	
O:002/0	SIM_ACD01	Global	Local rack 120vac output 0:002/0	
O:002/1	SIM_ACD02	Global	Local rack 120vac output 0:002/1	
O:002/2	SIM_ACD03	Global	Local rack 120vac output 0:002/2	
O:002/3	SIM_ACD04	Global	Local rack 120vac output 0:002/3	
O:002/4	SIM_ACD05	Global	Local rack 120vac output 0:002/4	
O:002/5	SIM_ACD06	Global	Local rack 120vac output 0:002/5	
O:002/6	SIM_ACD07	Global	Local rack 120vac output 0:002/6	
O:002/7	SIM_ACD08	Global	Local rack 120vac output 0:002/7	
O:002/10	SIM_ACD09	Global	Local rack 120vac output 0:002/10	
O:002/11	SIM_ACD010	Global	Local rack 120vac output 0:002/11	
O:002/12	SIM_ACD011	Global	Local rack 120vac output 0:002/12	
O:002/13	SIM_ACD012	Global	Local rack 120vac output 0:002/13	
O:002/14	SIM_ACD013	Global	Local rack 120vac output 0:002/14	
O:002/15	SIM_ACD014	Global	Local rack 120vac output 0:002/15	
O:002/16	SIM_ACD015	Global	Local rack 120vac output 0:002/16	
O:002/17	SIM_ACD016	Global	Local rack 120vac output 0:002/17	
O:004/0	SIMDO11	Global	SIMULATOR DISCRETE OUTPUT 1	
O:004/1	SIMDO12	Global	SIMULATOR DISCRETE OUTPUT 2	
O:004/2	SIMDO13	Global	SIMULATOR DISCRETE OUTPUT 3	
O:004/3	SIMDO14	Global	SIMULATOR DISCRETE OUTPUT 4	
O:004/4	SIMDO21	Global	SIMULATOR DISCRETE OUTPUT 5	
O:004/5	SIMDO22	Global	SIMULATOR DISCRETE OUTPUT 6	
O:004/6	SIMDO23	Global	SIMULATOR DISCRETE OUTPUT 7	
O:004/7	SIMDO24	Global	SIMULATOR DISCRETE OUTPUT 8	
O:004/10	SINDO31	Global	SIMULATOR DISCRETE OUTPUT 9	
O:004/11	SIMDO32	Global	SIMULATOR DISCRETE OUTPUT 10	
O:004/12	SIMDO33	Global	SIMULATOR DISCRETE OUTPUT 11	
O:004/13	SIMDO34	Global	SIMULATOR DISCRETE OUTPUT 12	
O:004/14	SIMDO41	Global	SIMULATOR DISCRETE OUTPUT 13	
O:004/15	SIMDO42	Global	SIMULATOR DISCRETE OUTPUT 14	
O:004/16	SIMDO43	Global	SIMULATOR DISCRETE OUTPUT 15	
O:004/17	SIMDO44	Global	SIMULATOR DISCRETE OUTPUT 16	
O:013/0	CR13	Global	VFD run	
O:013/1	CR14	Global	Makeup pump	
O:013/2	CR15	Global	Motorized Valve	
O:013/3	SOL1	Global	Reactor Vent Sol	
O:013/4	SOL2	Global	Reactor Pressure Sol	
O:013/5	CR16	Global	Stand Pipe	
O:013/6	CR17	Global	PCT Controller Receptacle #1	
O:013/7	CR18	Global	PCT Controller Receptacle #2	
O:013/10	CR19	Global	Alarm Horn	
O:013/11	CR20	Global	Alarm Light	
O:013/12	CR21	Global	Compressor Stop Relay	
O:013/13	CR22	Global	Compressor Start Relay	
O:013/14	CR23	Global	Drain Valve SOL	
O:013/15	ALM_LT	Global	Alarm Light from 24 VDC output card	
S:0/0			Processor arithmetic carry flag	
S:0/1			Processor arithmetic underflow/ overflow flag	
S:0/2			Processor arithmetic zero flag	
S:0/3			Processor arithmetic sign flag	
S:1/0			Bad RAM CHECKSUM at power up	
S:1/1			PLC-5 in RUN mode	
S:1/2			PLC-5 in TEST mode	
S:1/3			PLC-5 in PROG mode	
S:1/4			PLC-5 is burning an EEPROM	
S:1/5			Download- ing in progress	
S:1/6			Test edits enabled	
S:1/7			Mode switch in REMOTE	
S:1/8			Forces enabled	
S:1/9			Forces present	
S:1/10			EEPROM success- fully Burned	
S:1/11			Perform- ing online program- ming	
S:1/12			Processor is in DEBUG mode	
S:1/13			User program CHECKSUM done	
S:1/14			Last scan of ladder or SFC step	
S:1/15			First scan of ladder or SFC step	

Address/Symbol Database

Address	Symbol	Scope	Description	S
S:7/0			Rack 0 Faulted	
S:7/1			Rack 1 Faulted	
S:7/2			Rack 2 Faulted	
S:7/3			Rack 3 Faulted	
S:7/4			Rack 4 Faulted	
S:7/5			Rack 5 Faulted	
S:7/6			Rack 6 Faulted	
S:7/7			Rack 7 Faulted	
S:7/8			Block Xfer queue to rack 0 is full	
S:7/9			Block Xfer queue to rack 1 is full	
S:7/10			Block Xfer queue to rack 2 is full	
S:7/11			Block Xfer queue to rack 3 is full	
S:7/12			Block Xfer queue to rack 4 is full	
S:7/13			Block Xfer queue to rack 5 is full	
S:7/14			Block Xfer queue to rack 6 is full	
S:7/15			Block Xfer queue to rack 7 is full	
S:8			Last program scan time ladder & SFC	
S:9			Maximum program scan time ladder & SFC	
S:10/0			Battery is bad or missing	
S:10/1			DH+ active node table changed	
S:10/2			STI overlap	
S:10/3			EEPROM trans- ferred	
S:10/4			Edits prevent SFC continuing	
S:10/5			Invalid I/O status file	
S:10/6			Memory cartridge battery low	
S:10/7			No more command blocks exist	
S:10/9			No MCP was configured to run	
S:10/10			MCP not allowed	
S:10/11			PII word number isn't in local rack	
S:10/12			User PII routine overlap	
S:10/13			No command block exists to get PII	
S:10/14			Arithmetic overflow occurred	
S:10/15			SFC lingering action overlap	
S:11/0			Bad program file	
S:11/1			Bad address in ladder program	
S:11/2			Programmer error	
S:11/3			SFC Fault	
S:11/4			Program assembly error	
S:11/5			Powerup protection fault	
S:11/6			Error not defined	
S:11/7			User generated fault	
S:11/8			Watchdog timer fault	
S:11/9			Bad system config- uration	
S:11/10			Hardware Error	
S:11/11			MCP file does not exist or is not ladder	
S:11/12			PII file does not exist or is not ladder	
S:11/13			STI file does not exist or is not ladder	
S:11/14			Fault file does not exist or is not ladder	
S:11/15			Non ladder file	
S:12			Fault Code	
S:13			Program file where fault occurred	
S:14			Rung number where fault occurred	
S:16			I/O status file	
S:17/0			Queue full between local and remote I/O	
S:17/1			Queue full servicing channel 1A	
S:17/2			Queue full servicing channel 1B	
S:17/3			Queue full servicing channel 2A	
S:17/4			Queue full servicing channel 2B	
S:17/5			No modem on serial port	
S:17/6			Remote I/O is greater than image size	
S:17/8			ASCII instruct- ion error	
S:17/9			Duplicate node address	
S:18			Real time clock YEAR	
S:19			Real time clock MONTH	
S:20			Real time clock DAY	
S:21			Real time clock HOUR	
S:22			Real time clock MINUTE	
S:23			Real time clock SECOND	
S:24			Indexed Addressing Offset	
S:25			Adapter Image File	
S:26/0			SFC Restart/ Continue	
S:26/1			Start-up protect- ion after power loss	
S:26/2			Local rack is 1 if set or 0 if bit = 0	
S:26/3			Complement Rack Mode	
S:27/0			Rack 0 Inhibit	
S:27/1			Rack 1 Inhibit	

Address/Symbol Database

Address	Symbol	Scope	Description	S
S:27/2			Rack 2 Inhibit	
S:27/3			Rack 3 Inhibit	
S:27/4			Rack 4 Inhibit	
S:27/5			Rack 5 Inhibit	
S:27/6			Rack 6 Inhibit	
S:27/7			Rack 7 Inhibit	
S:27/8			Rack 0 Reset	
S:27/9			Rack 1 Reset	
S:27/10			Rack 2 Reset	
S:27/11			Rack 3 Reset	
S:27/12			Rack 4 Reset	
S:27/13			Rack 5 Reset	
S:27/14			Rack 6 Reset	
S:27/15			Rack 7 Reset	
S:28			Watchdog Timer Setpoint	
S:29			Fault routine file number	
S:30			STI setpoint (interval)	
S:31			STI file number	
S:32/0			Rack 10 Faulted	
S:32/1			Rack 11 Faulted	
S:32/2			Rack 12 Faulted	
S:32/3			Rack 13 Faulted	
S:32/4			Rack 14 Faulted	
S:32/5			Rack 15 Faulted	
S:32/6			Rack 16 Faulted	
S:32/7			Rack 17 Faulted	
S:32/8			Block Xfer queue to rack 10 is full	
S:32/9			Block Xfer queue to rack 11 is full	
S:32/10			Block Xfer queue to rack 12 is full	
S:32/11			Block Xfer queue to rack 13 is full	
S:32/12			Block Xfer queue to rack 14 is full	
S:32/13			Block Xfer queue to rack 15 is full	
S:32/14			Block Xfer queue to rack 16 is full	
S:32/15			Block Xfer queue to rack 17 is full	
S:33/0			Rack 10 Inhibit	
S:33/1			Rack 11 Inhibit	
S:33/2			Rack 12 Inhibit	
S:33/3			Rack 13 Inhibit	
S:33/4			Rack 14 Inhibit	
S:33/5			Rack 15 Inhibit	
S:33/6			Rack 16 Inhibit	
S:33/7			Rack 17 Inhibit	
S:33/8			Rack 10 Reset	
S:33/9			Rack 11 Reset	
S:33/10			Rack 12 Reset	
S:33/11			Rack 13 Reset	
S:33/12			Rack 14 Reset	
S:33/13			Rack 15 Reset	
S:33/14			Rack 16 Reset	
S:33/15			Rack 17 Reset	
S:34/0			Rack 20 Faulted	
S:34/1			Rack 21 Faulted	
S:34/2			Rack 22 Faulted	
S:34/3			Rack 23 Faulted	
S:34/4			Rack 24 Faulted	
S:34/5			Rack 25 Faulted	
S:34/6			Rack 26 Faulted	
S:34/7			Rack 27 Faulted	
S:34/8			Block Xfer queue to rack 20 is full	
S:34/9			Block Xfer queue to rack 21 is full	
S:34/10			Block Xfer queue to rack 22 is full	
S:34/11			Block Xfer queue to rack 23 is full	
S:34/12			Block Xfer queue to rack 24 is full	
S:34/13			Block Xfer queue to rack 25 is full	
S:34/14			Block Xfer queue to rack 26 is full	
S:34/15			Block Xfer queue to rack 27 is full	
S:35/0			Rack 20 Inhibit	
S:35/1			Rack 21 Inhibit	
S:35/2			Rack 22 Inhibit	
S:35/3			Rack 23 Inhibit	
S:35/4			Rack 24 Inhibit	
S:35/5			Rack 25 Inhibit	
S:35/6			Rack 26 Inhibit	
S:35/7			Rack 27 Inhibit	
S:35/8			Rack 20 Reset	
S:35/9			Rack 21 Reset	

Address/Symbol Database

Address	Symbol	Scope	Description	S
S:35/10			Rack 22 Reset	
S:35/11			Rack 23 Reset	
S:35/12			Rack 24 Reset	
S:35/13			Rack 25 Reset	
S:35/14			Rack 26 Reset	
S:35/15			Rack 27 Reset	
S:46			PII file number	
S:47			PII module group to examine	
S:48			PII bit mask	
S:48/0			PII Module Bit 1=Monitor 0=Ignore	
S:49			PII compare value	
S:49/0			PII Bit 1=false to true, 0= true to false	
S:50			PII down count	
S:51			PII return mask	
S:52			PII accum- ulator	
S:53			STI last scan time	
S:54			STI max scan time	
S:55			PII last scan time	
S:56			PII max scan time	
S:79/0			Main control program A disable bit	
S:79/1			Main control program B disable bit	
S:79/2			Main control program C disable bit	
S:79/3			Main control program D disable bit	
S:79/4			Main control program E disable bit	
S:79/5			Main control program F disable bit	
S:79/6			Main control program G disable bit	
S:79/7			Main control program H disable bit	
S:79/8			Main control program I disable bit	
S:79/9			Main control program J disable bit	
S:79/10			Main control program K disable bit	
S:79/11			Main control program L disable bit	
S:79/12			Main control program M disable bit	
S:79/13			Main control program N disable bit	
S:79/14			Main control program O disable bit	
S:79/15			Main control program P disable bit	
S:80			Main control program A file number	
S:81			Program A scan time	
S:82			Program A maximum scan time	
S:83			Main control program B file number	
S:84			Program B scan time	
S:85			Program B maximum scan time	
S:86			Main control program C file number	
S:87			Program C scan time	
S:88			Program C maximum scan time	
S:89			Main control program D file number	
S:90			Program D scan time	
S:91			Program D maximum scan time	
S:92			Main control program E file number	
S:93			Program E scan time	
S:94			Program E maximum scan time	
S:95			Main control program F file number	
S:96			Program F scan time	
S:97			Program F maximum scan time	
S:98			Main control program G file number	
S:99			Program G scan time	
S:100			Program G maximum scan time	
S:101			Main control program H file number	
S:102			Program H scan time	
S:103			Program H maximum scan time	
S:104			Main control program I file number	
S:105			Program I scan time	
S:106			Program I maximum scan time	
S:107			Main control program J file number	
S:108			Program J scan time	
S:109			Program J maximum scan time	
S:110			Main control program K file number	
S:111			Program K scan time	
S:112			Program K maximum scan time	
S:113			Main control program L file number	
S:114			Program L scan time	
S:115			Program L maximum scan time	
S:116			Main control program M file number	
S:117			Program M scan time	
S:118			Program M maximum scan time	
S:119			Main control program N file number	
S:120			Program N scan time	

Address/Symbol Database

Address	Symbol	Scope	Description	S
S:121			Program N maximum scan time	
S:122			Main control program O file number	
S:123			Program O scan time	
S:124			Program O maximum scan time	
S:125			Main control program P file number	
S:126			Program P scan time	
S:127			Program P maximum scan time	
T4:0	T0_LO_FLOW	Global	Time delay low flow cutoff alarm	
T4:0/DN	T0_LO_FLOW_DN	Global	Time delay low flow cutoff alarm done bit	
T4:1	TO_PID1_RESET	Global	Timer for PID operation	
T4:1/DN	TO_PID1_RESET_DN	Global	PID Timer for trigger control	
T4:2	T2_ALM_HRN	Global	Timer to stop alarm horn	
T4:2/TT	T2_ALM_HRN_TT	Global	Timer to stop alarm horn timing bit	

Address	Instruction	Description
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