

# RSLogix 500 Project Report



Processor Information

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Processor Type: 1747-L551 5/05 CPU - 16K Mem. OS501

Processor Name: HAVASAU

Total Memory Used: 1606 Instruction Words Used - 2625 Data Table Words Used

Total Memory Left: 10682 Instruction Words Left

Program Files: 11

Data Files: 25

Program ID: 37b7

## I/O Configuration

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0	1747-L551	5/05 CPU - 16K Mem. OS501
1	1746-NIO4I	Analog 2 Ch In/2 Ch Current Out
2	1746-IA16	16-Input 100/120 VAC
3	1746-IA16	16-Input 100/120 VAC
4	1746-OW16	16-Output (RLY) 240 VAC
5		
6		



PID Configuration

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## Channel Configuration

## GENERAL

Channel 1 Write Protected: No  
Channel 1 Edit Resource/Owner Timeout(x1 sec): 60  
Channel 1 Passthru Link ID(dec): 2  
Channel 1 Diagnostic File: 0

Channel 0 Write Protected: No  
Channel 0 Edit Resource/Owner Timeout(x1 sec): 60  
Channel 0 Passthru Link ID(dec): 1  
Channel 0 Current Mode: System  
Channel 0 Mode Change Enabled: No  
Channel 0 Mode Change Attention Character: \1b  
Channel 0 Mode Change System Character: S  
Channel 0 Mode Change User Character: U  
Channel 0 Diagnostic File: 0

## CHANNEL 1 (SYSTEM) - Driver: Ethernet

Hardware Address: 00:00:BC:35:3C:92  
IP Address: 172.20.35.20  
Subnet Mask: 255.255.255.0  
Gateway Address: 0.0.0.0  
Default Domain Name:  
Primary Name Server: 0.0.0.0  
Secondary Name Server 0.0.0.0  
Msg Connection Timeout (x 1mS): 15000  
Msg Reply Timeout (x mS): 3000  
Inactivity Timeout (x Min): 30  
Bootp Enable: No  
Dhcp Enable No  
SNMP Enable: Yes  
HTTP Enable: Yes  
Auto Negotiate Enable: No  
Port Speed Enable: 10 Mbps Half Duplex Forced  
Contact:  
Location:

## CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex

Source ID: 9 (decimal)  
Baud: 19200  
Parity: NONE  
Stop Bits: 1  
Control Line : No Handshaking  
Error Detection: CRC  
Embedded Responses: Auto Detect  
Duplicate Packet Detect: Yes  
ACK Timeout(x20 ms): 50  
NAK Retries: 3  
ENQ Retries: 3

## CHANNEL 0 (USER) - Driver: ASCII

Baud: 19200  
Parity: NONE  
Stop Bits: 1  
Data Bits: 8  
Control Line : No Handshaking  
Delete mode: Ignore  
Echo: No  
XON/XOFF: No  
Termination Character 1: \d  
Termination Character 2: \ff  
Append Character 1: \d  
Append Character 2: \a

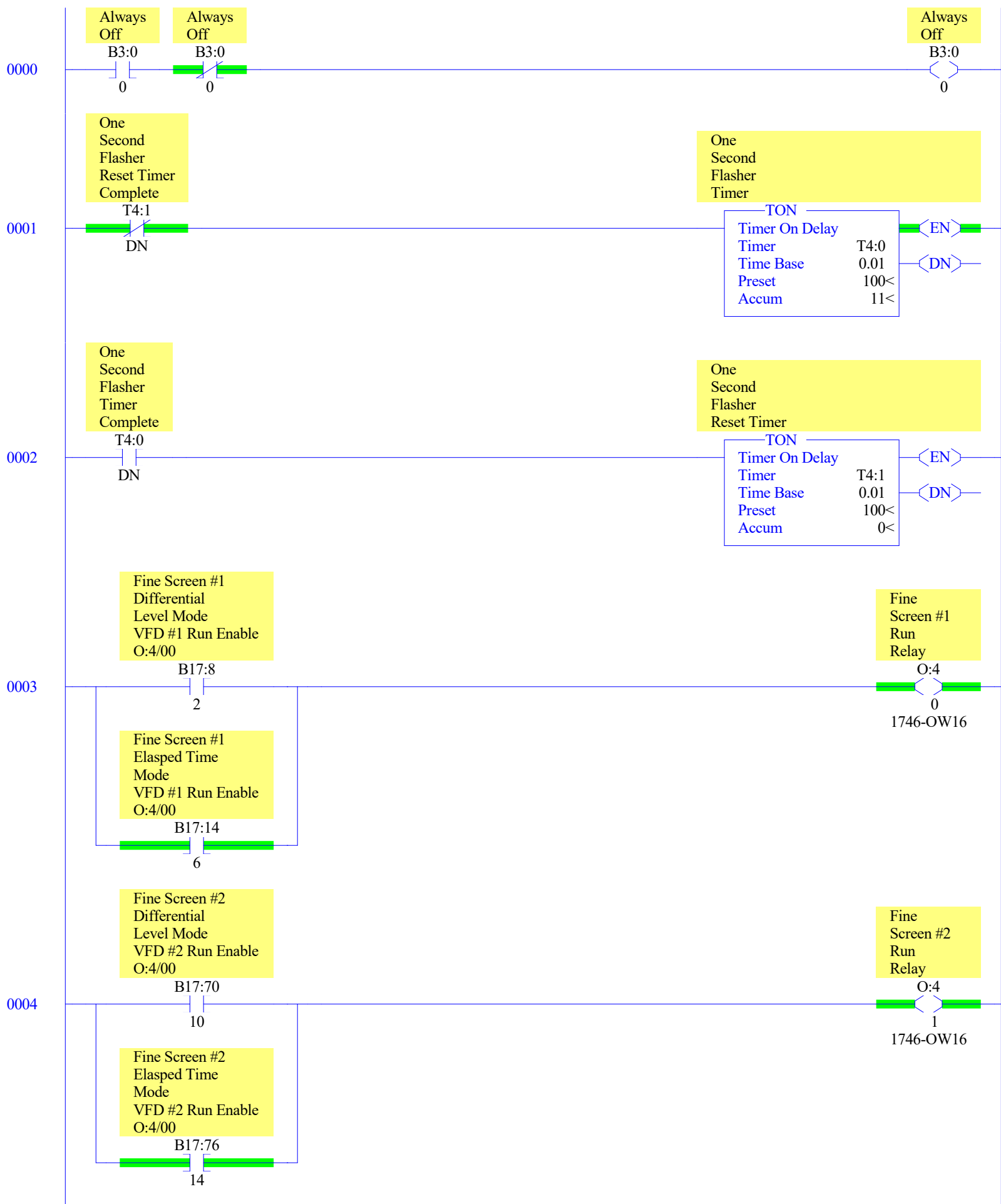
## Program File List

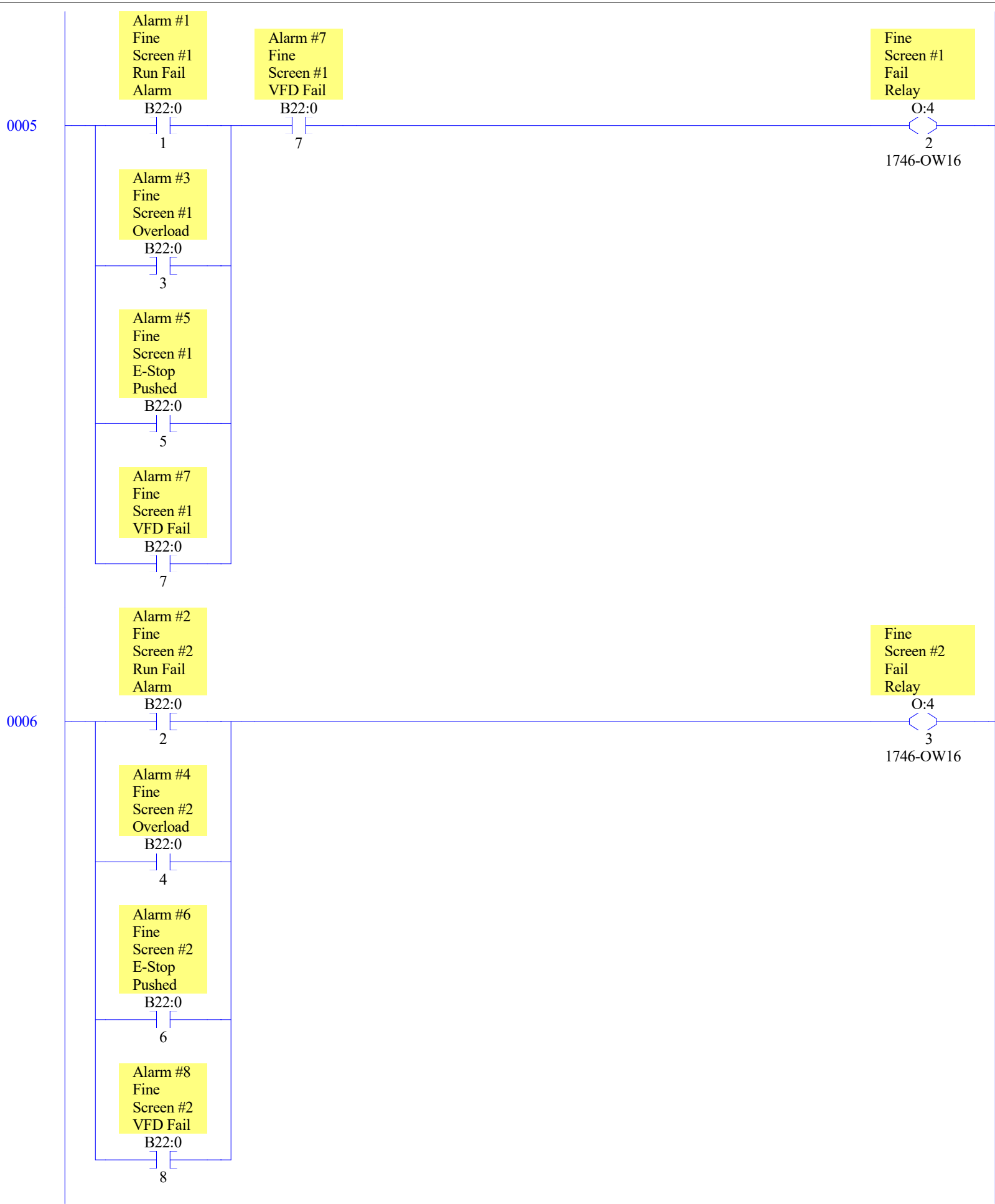
Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
MAIN	2	LADDER	29	No	497
SCALING	3	LADDER	13	No	383
SETPOINTS	4	LADDER	33	No	1343
SCREEN 1	5	LADDER	28	No	816
SCREEN 2	6	LADDER	28	No	816
IMP_CONV 1	7	LADDER	16	No	414
IMP_CONV 2	8	LADDER	16	No	414
ALARMS	9	LADDER	83	No	2393
HMI DSP	10	LADDER	51	No	1051

## Data File List

Name	Number	Type	Scope	Debug	Words	Elements	Last
OUTPUT	0	O	Global	No	9	3	O:2
INPUT	1	I	Global	No	12	4	I:3
STATUS	2	S	Global	No	0	83	S:82
BINARY	3	B	Global	No	1	1	B3:0
TIMER	4	T	Global	No	6	2	T4:1
COUNTER	5	C	Global	No	3	1	C5:0
CONTROL	6	R	Global	No	3	1	R6:0
INTEGER	7	N	Global	No	1	1	N7:0
FLOAT	8	F	Global	No	2	1	F8:0
CONFIGURE	9	N	Global	No	1	1	N9:0
SCALING	10	F	Global	No	24	12	F10:11
PLC BIT RD	11	B	Global	No	1	1	B11:0
PLC BIT WT	12	B	Global	No	10	10	B12:9
PLC INT RD	13	N	Global	No	223	223	N13:222
PLC INT WT	14	N	Global	No	223	223	N14:222
PLC FLT RD	15	F	Global	No	414	207	F15:206
PLC FLT WT	16	F	Global	No	406	203	F16:202
CNTL BITS	17	B	Global	No	91	91	B17:90
CNTL INTS	18	N	Global	No	227	227	N18:226
CNTL FLTS	19	F	Global	No	414	207	F19:206
CNTL TMRS	20	T	Global	No	411	137	T20:136
CNTL CTRS	21	C	Global	No	3	1	C21:0
ALARM BITS	22	B	Global	No	14	14	B22:13
ALARM TMRS	23	T	Global	No	123	41	T23:40
ALARM CTRS	24	C	Global	No	3	1	C24:0

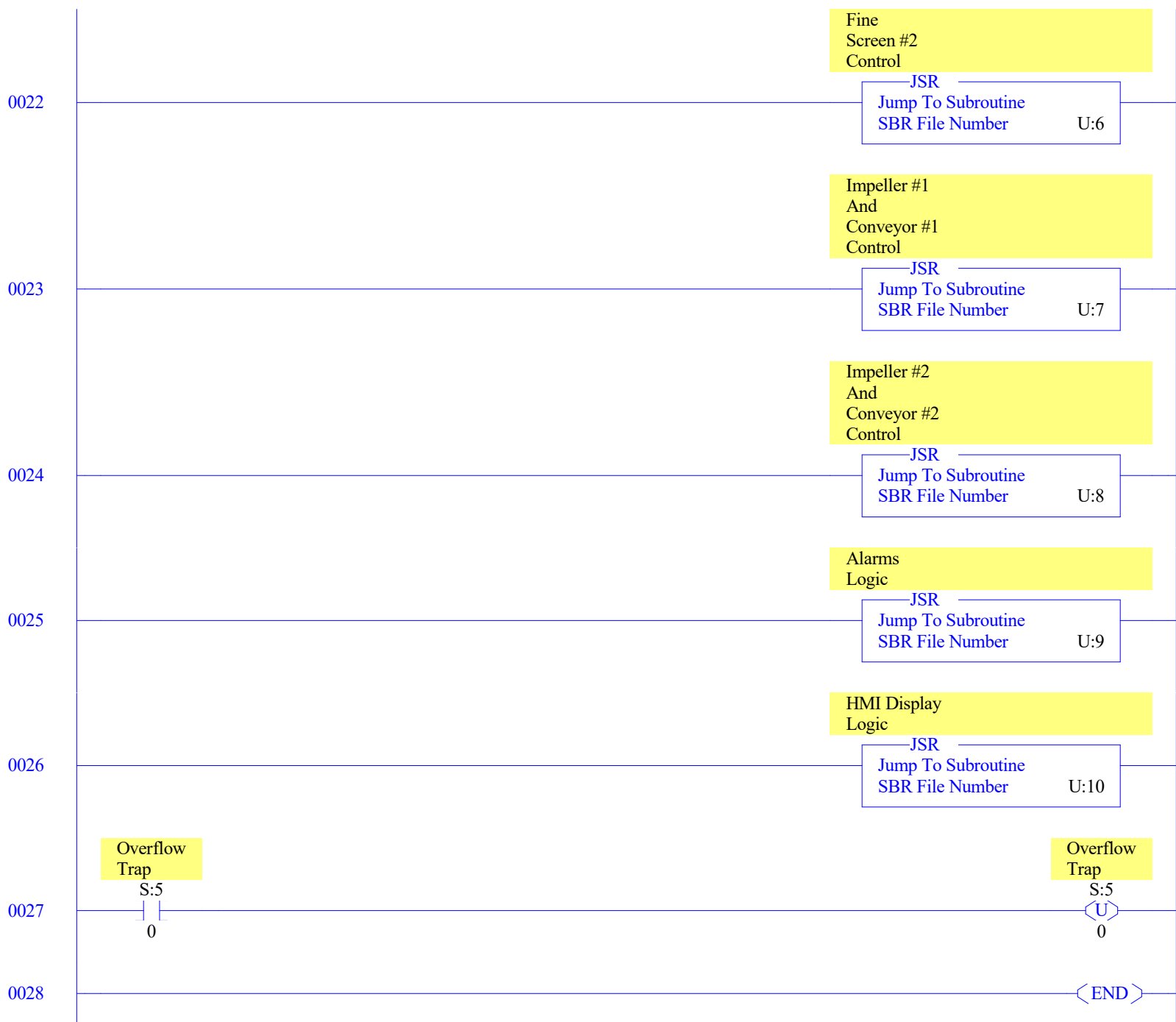


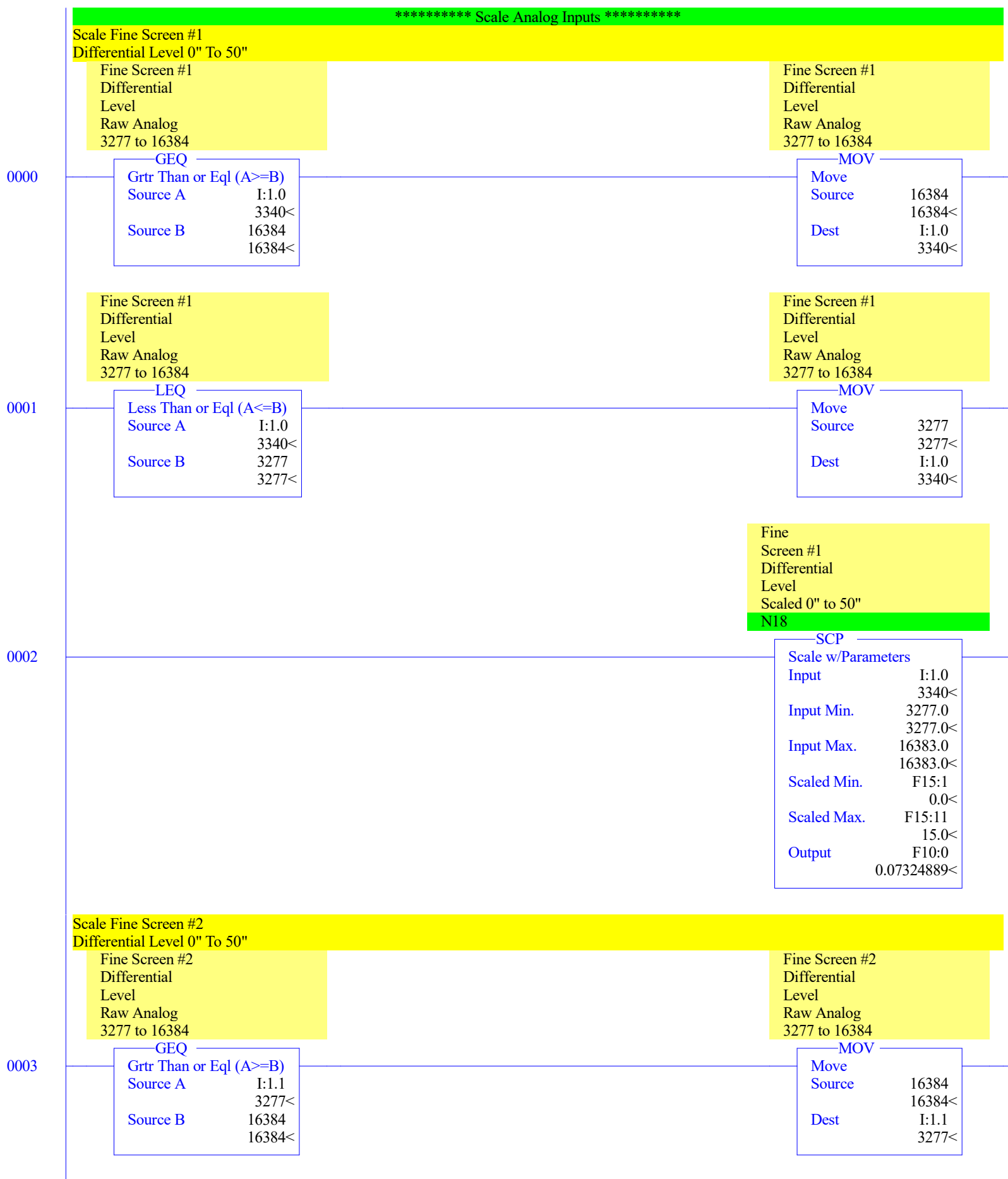


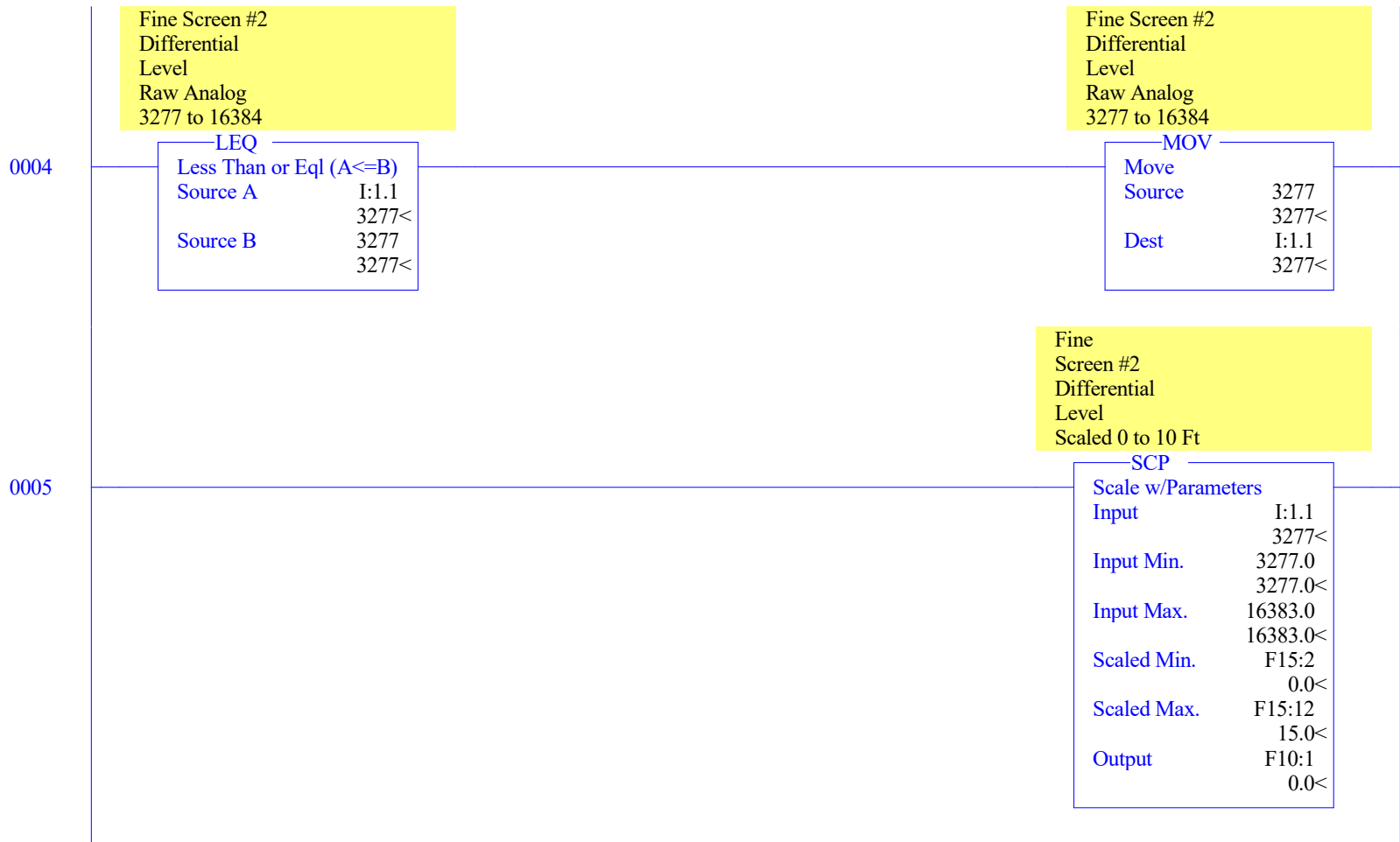












\*\*\*\*\* Scale Analog Outputs \*\*\*\*\*

Scale Fine Screen #1 VFD  
 For Raw Analog Output  
 6242 To 31208

Fine Screen #1  
 VFD  
 Command Speed  
 Raw Analog  
 6242 to 31208

SCP	
Scale w/Parameters	
Input	N18:1
	50<
Input Min.	0.0
	0.0<
Input Max.	100.0
	100.0<
Scaled Min.	6242.0
	6242.0<
Scaled Max.	31208.0
	31208.0<
Output	O:1.0
	18725<

0006

Fine Screen #1  
 VFD  
 Command Speed  
 Raw Analog  
 6242 to 31208

GEQ	
Grtr Than or Eq (A>=B)	
Source A	O:1.0
	18725<
Source B	31208
	31208<

Fine Screen #1  
 VFD  
 Command Speed  
 Raw Analog  
 6242 to 31208

MOV	
Move	
Source	31208
	31208<
Dest	O:1.0
	18725<

0007

Fine Screen #1  
 VFD  
 Command Speed  
 Raw Analog  
 6242 to 31208

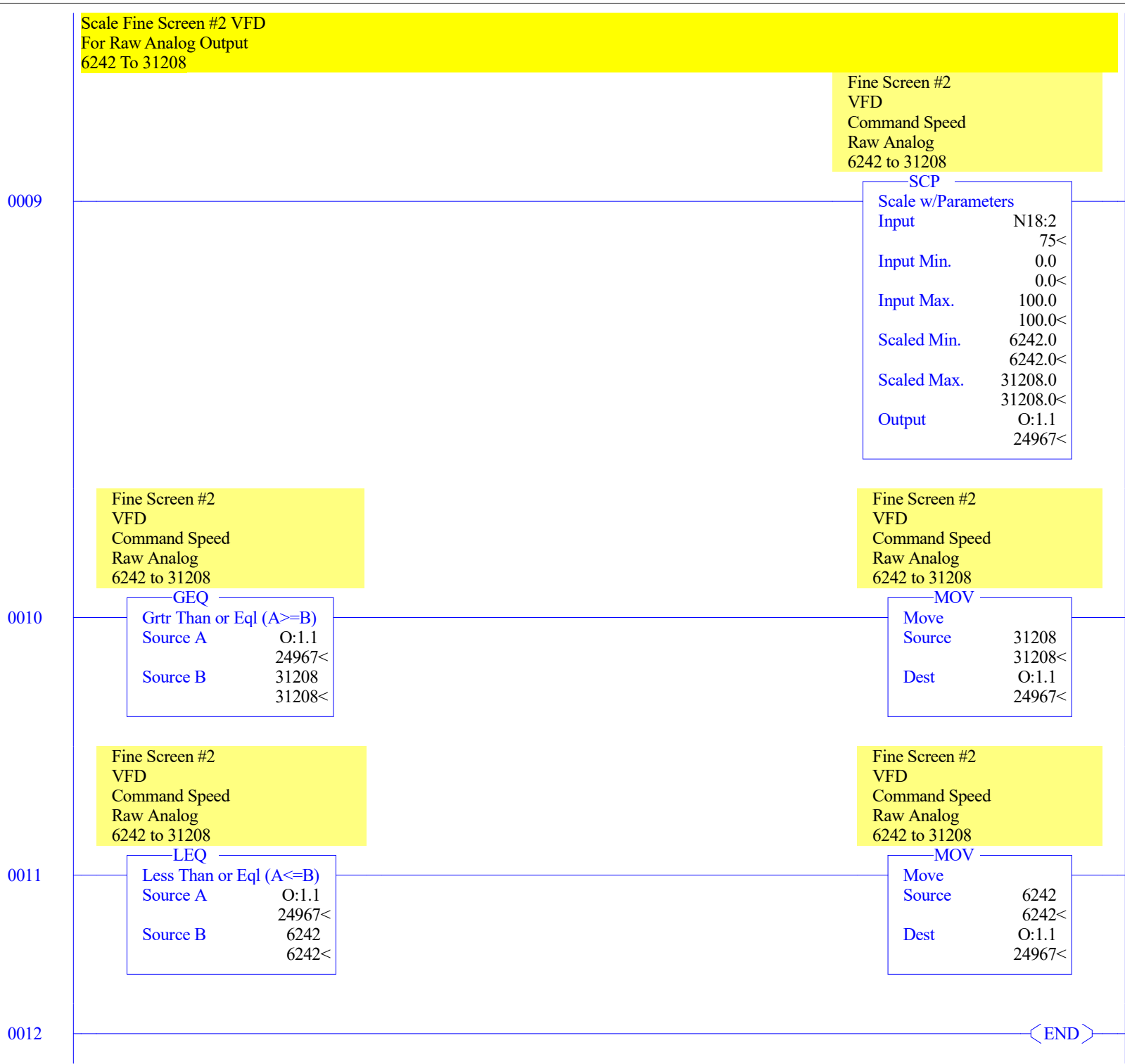
LEQ	
Less Than or Eq (A<=B)	
Source A	O:1.0
	18725<
Source B	6242
	6242<

Fine Screen #1  
 VFD  
 Command Speed  
 Raw Analog  
 6242 to 31208

MOV	
Move	
Source	6242
	6242<
Dest	O:1.0
	18725<

0008

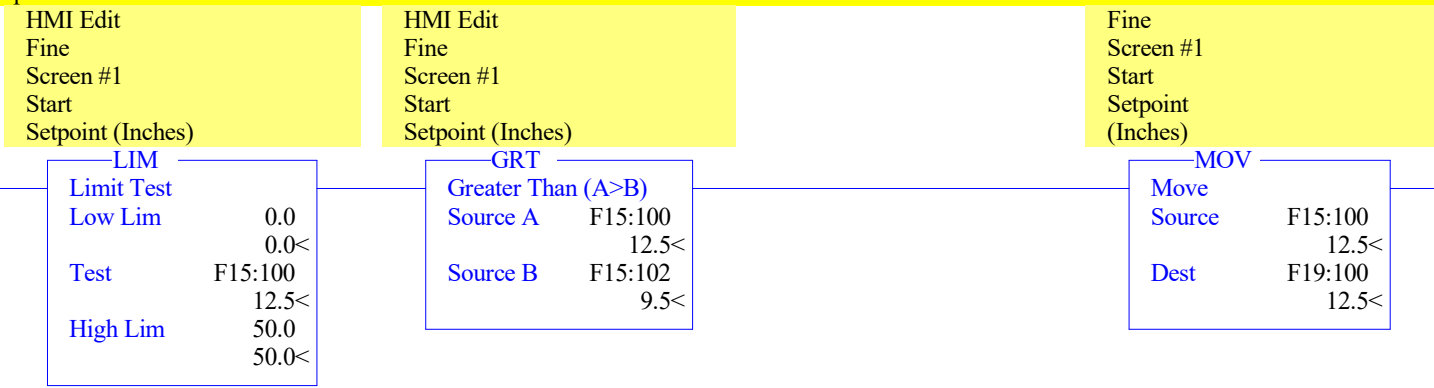




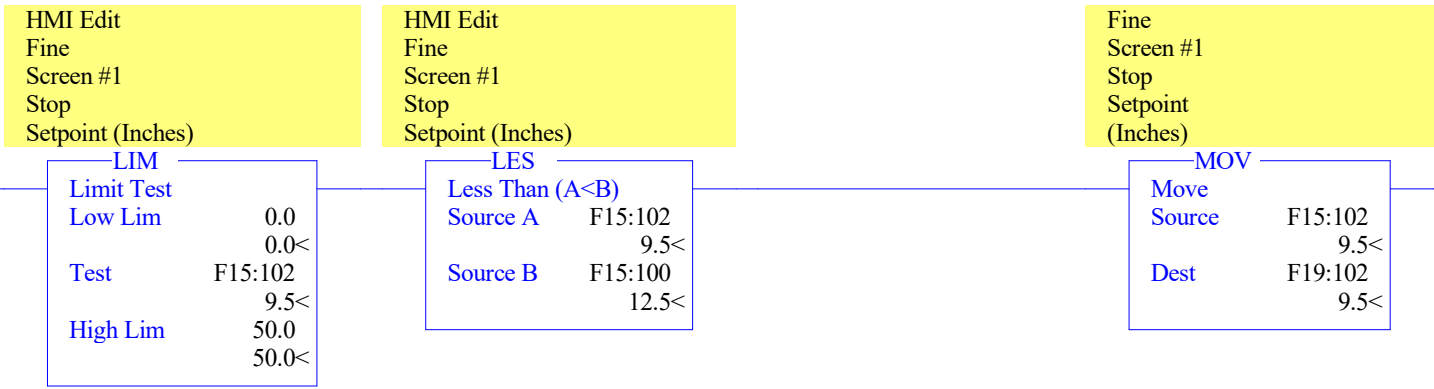
\*\*\*\*\* Verify Operator Entry Setpoints For Fine Screen #1 \*\*\*\*\*

Fine Screen #1  
 Test Operator Entered  
 Differential Level  
 Setpoints

0000

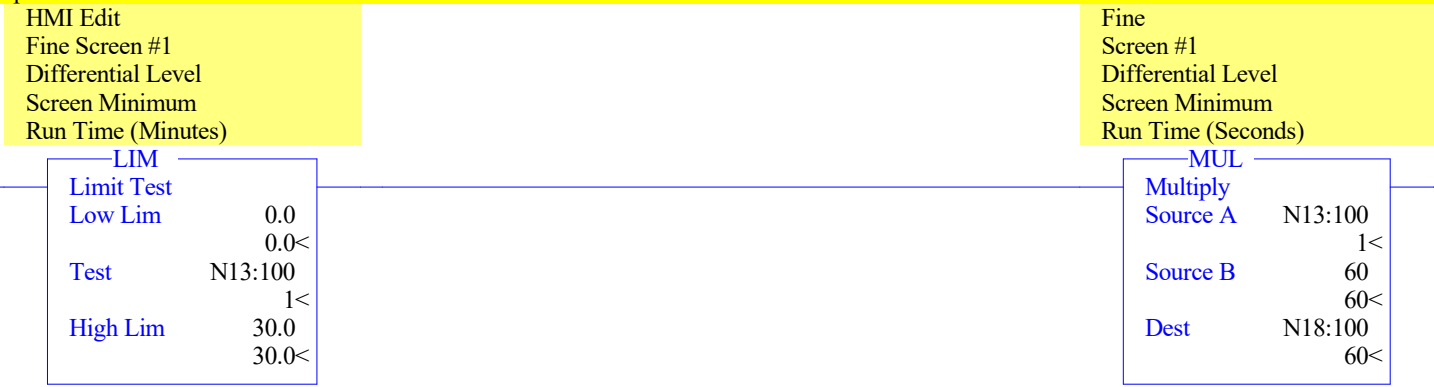


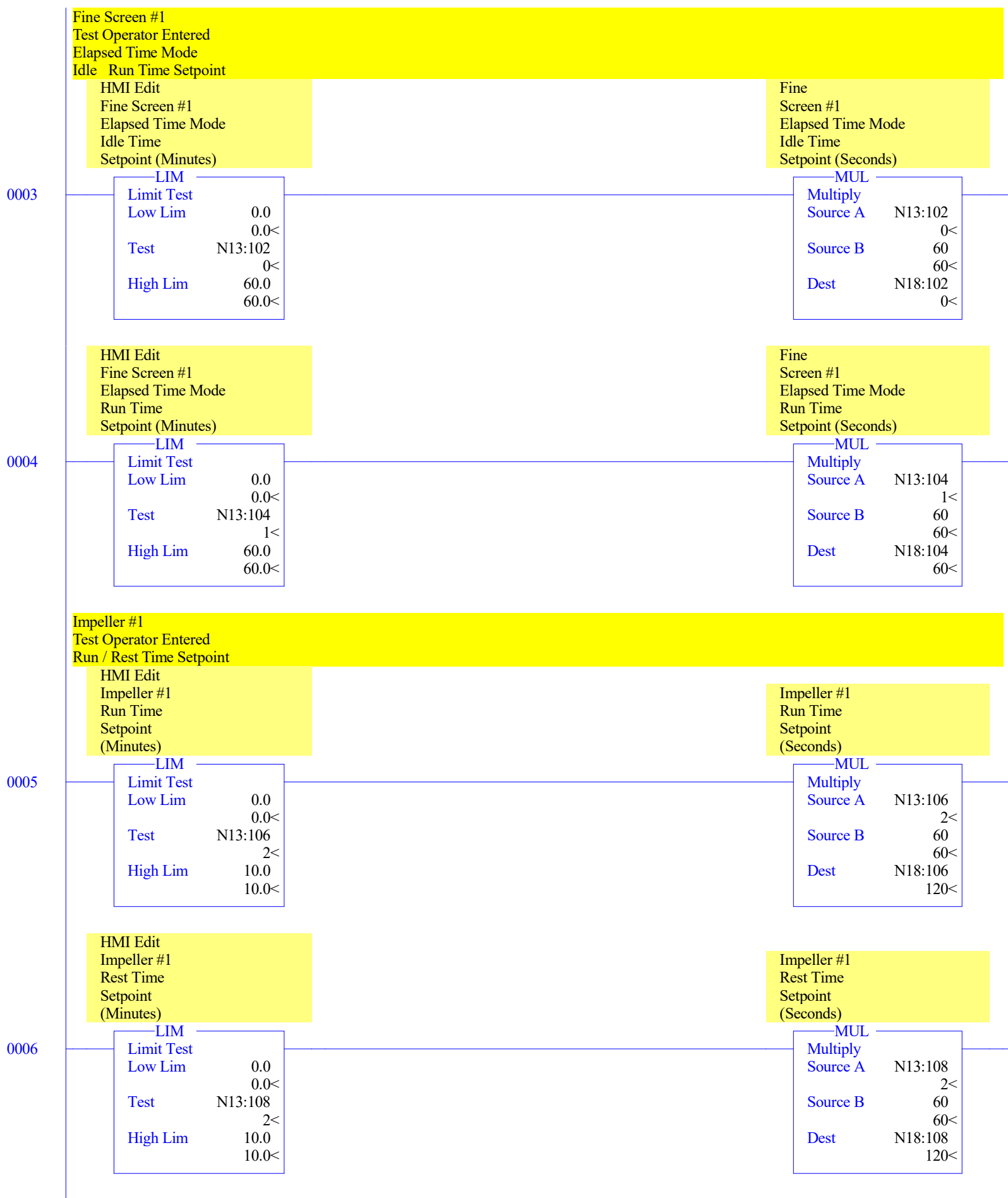
0001

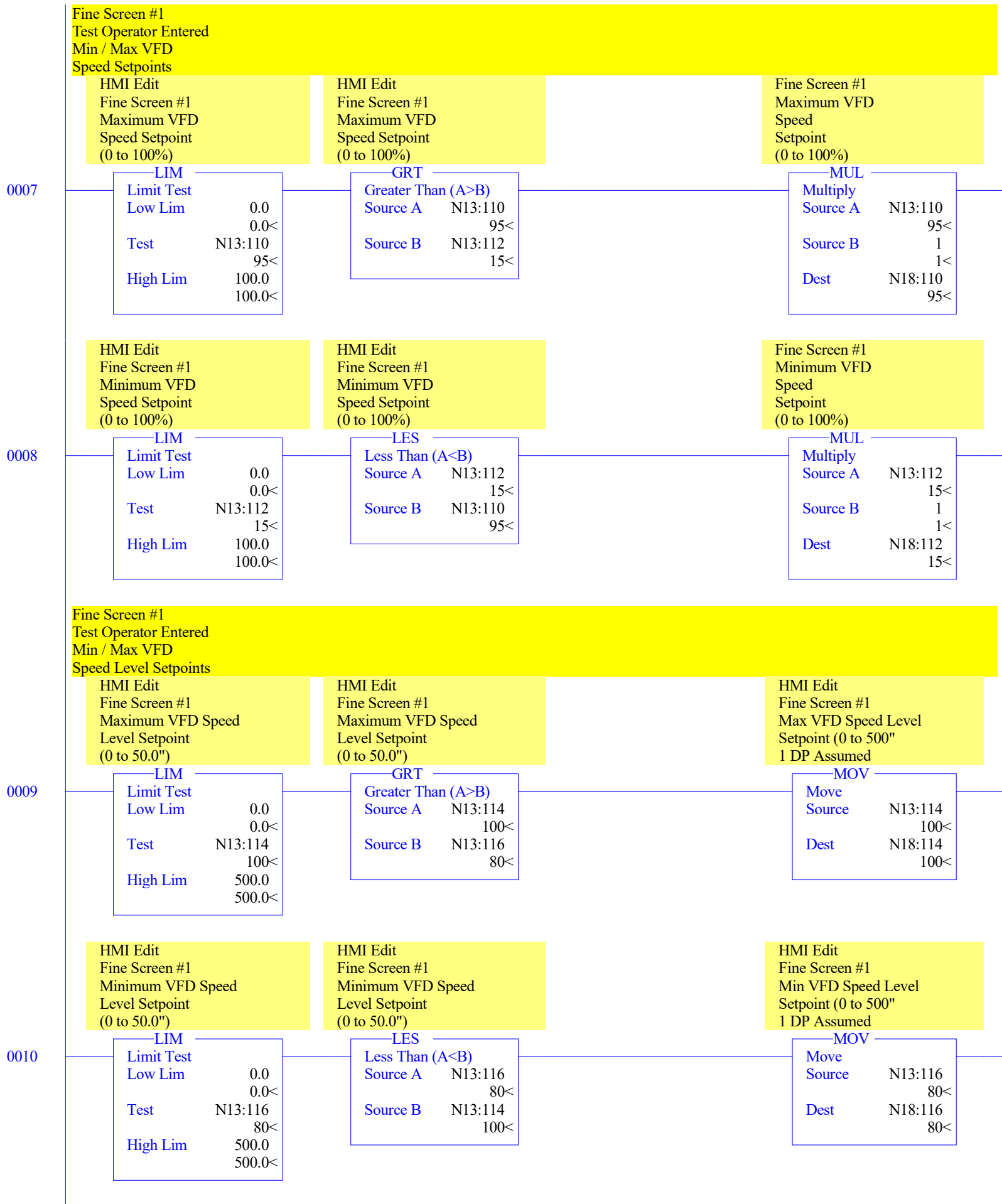


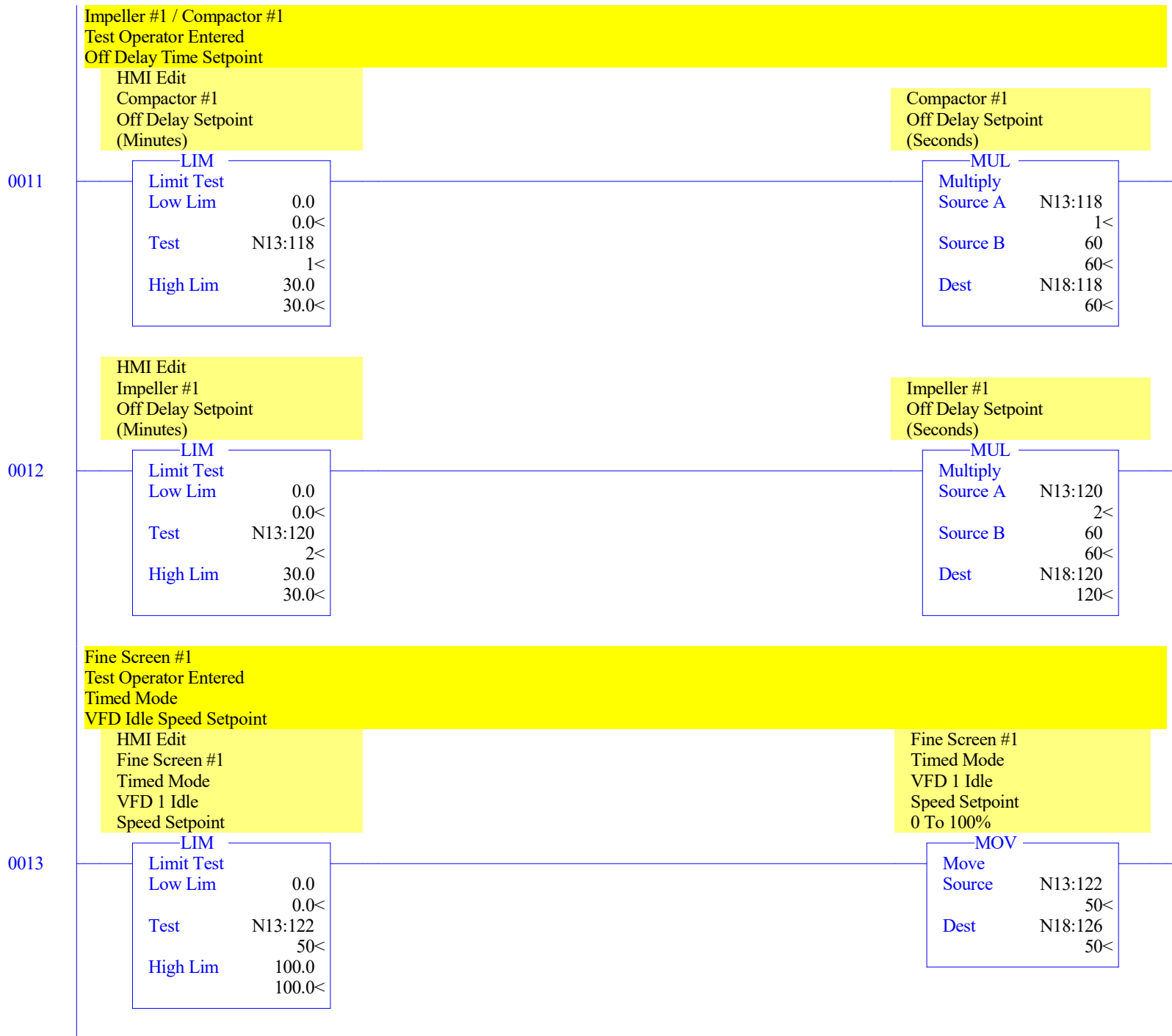
Fine Screen #1  
 Test Operator Entered  
 Differential Level Mode  
 VFD Minimum Run Time  
 Setpoint

0002





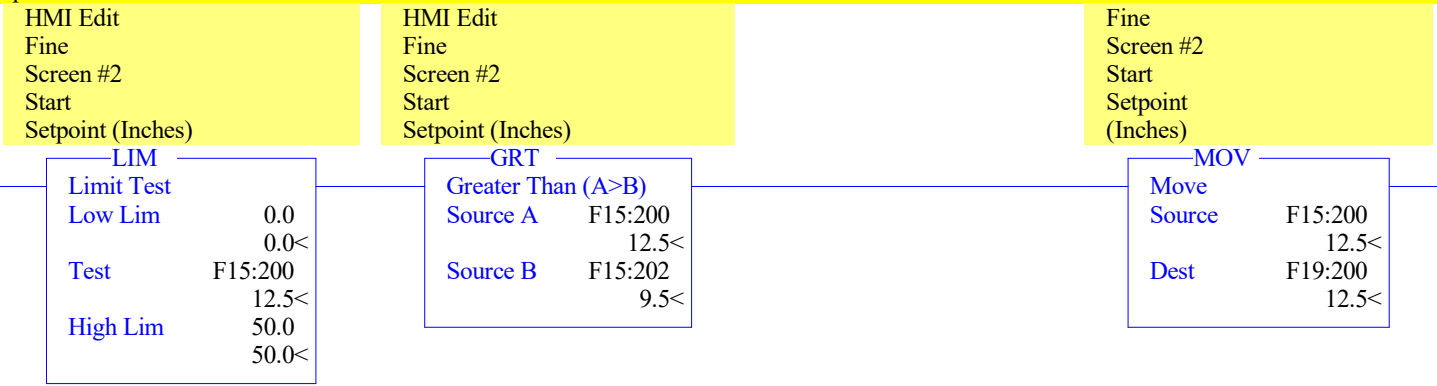




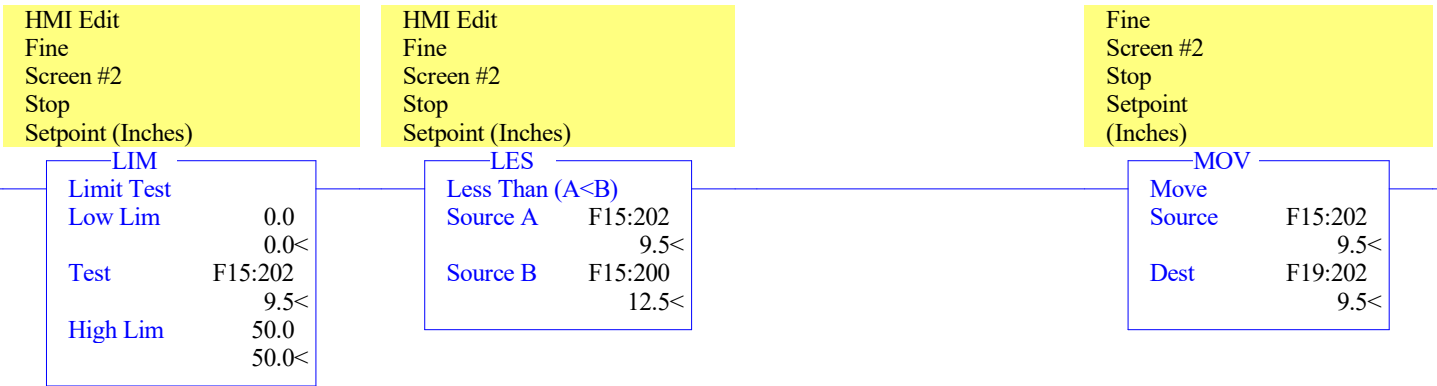
\*\*\*\*\* Verify Operator Entry Setpoints For Fine Screen #2 \*\*\*\*\*

Fine Screen #2  
 Test Operator Entered  
 Differential Level  
 Setpoints

0014

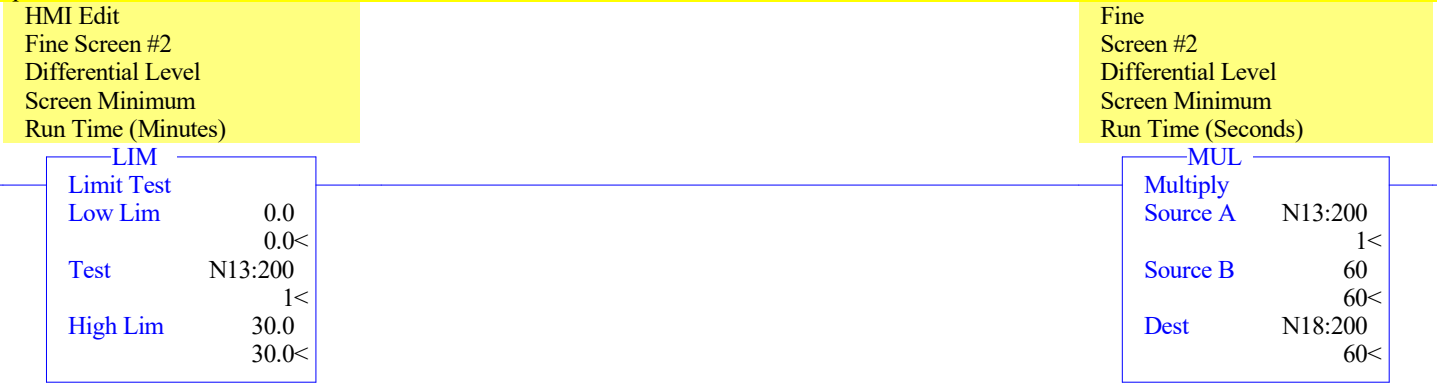


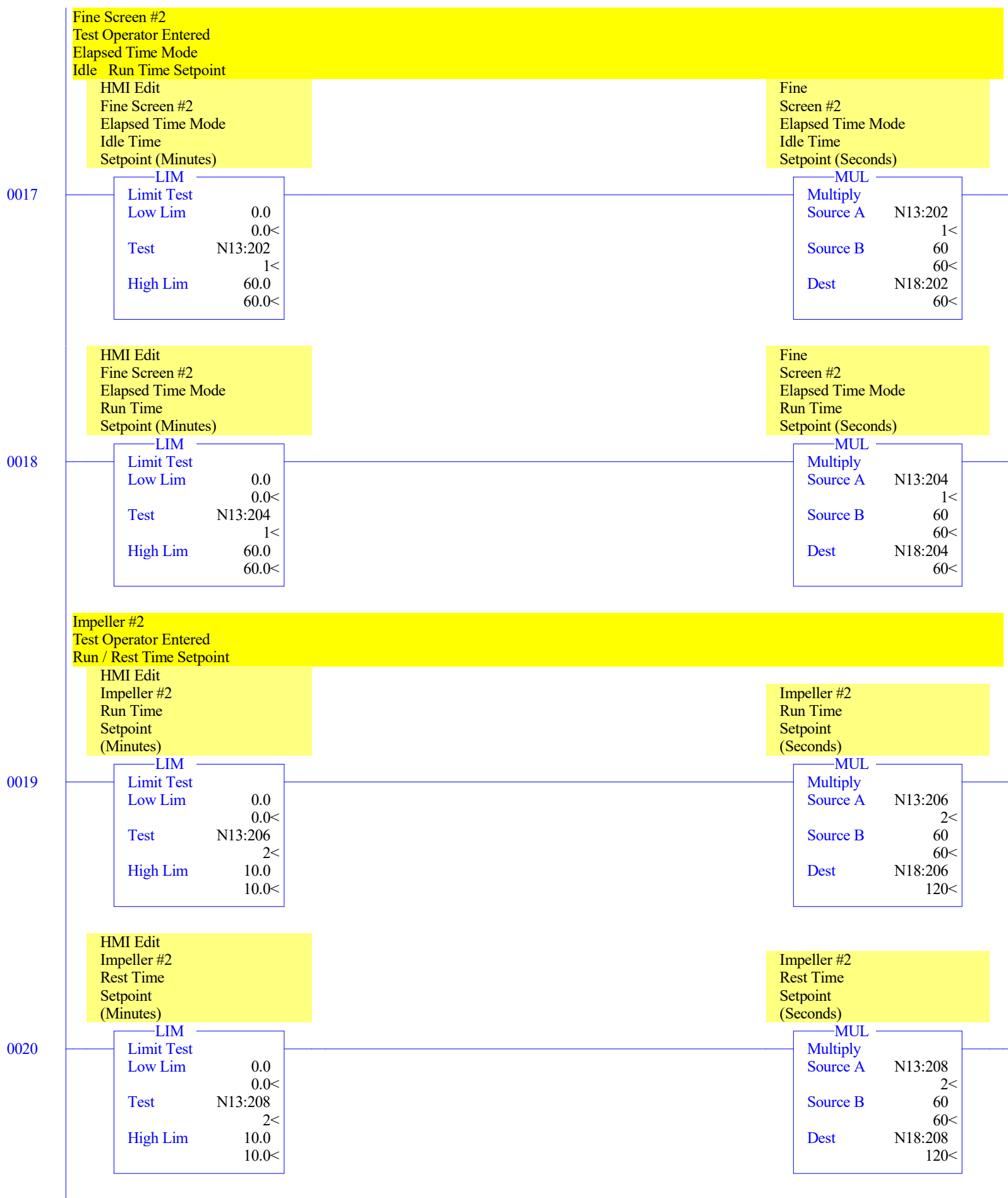
0015

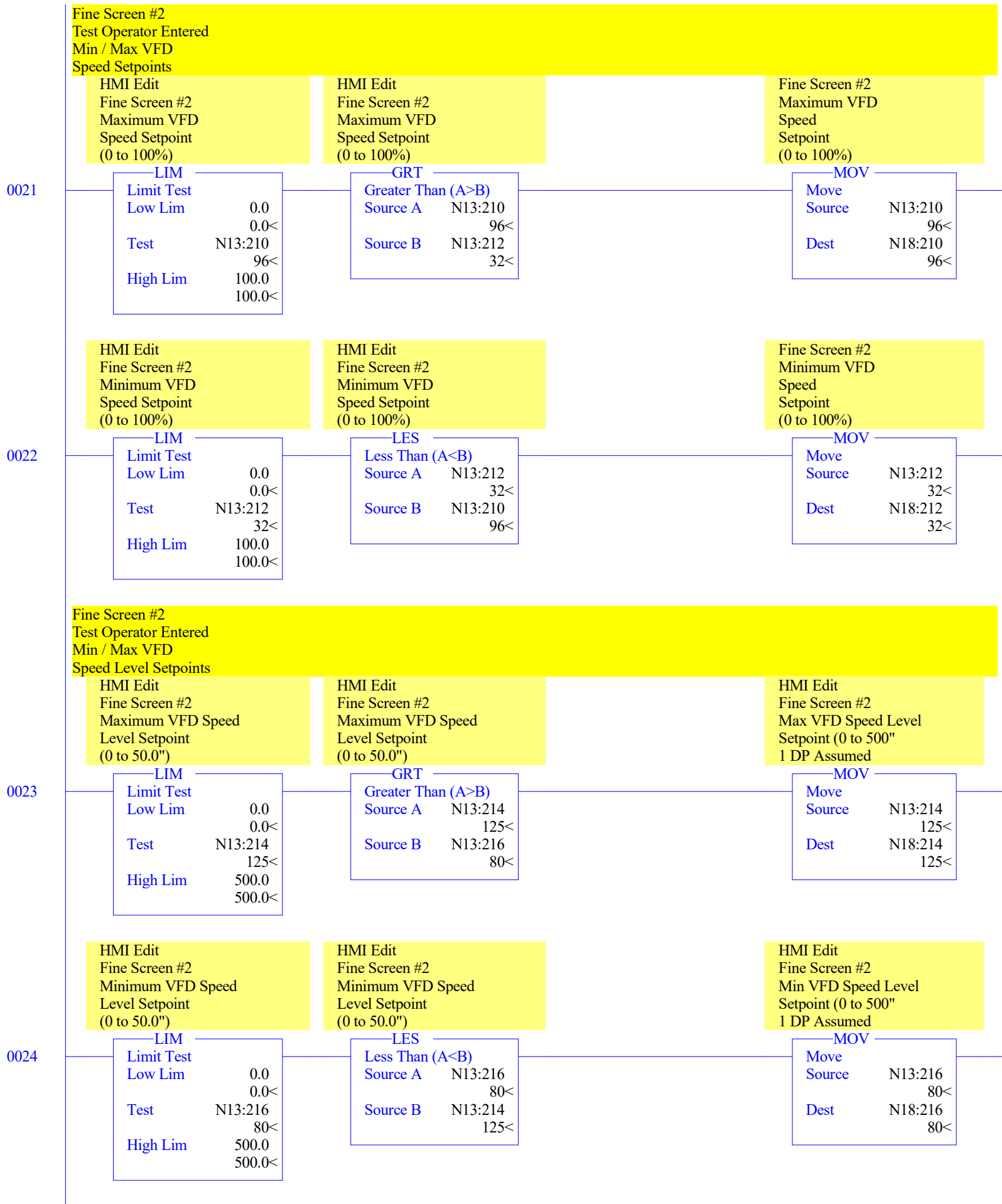


Fine Screen #2  
 Test Operator Entered  
 Differential Level Mode  
 VFD Minimum Run Time  
 Setpoint

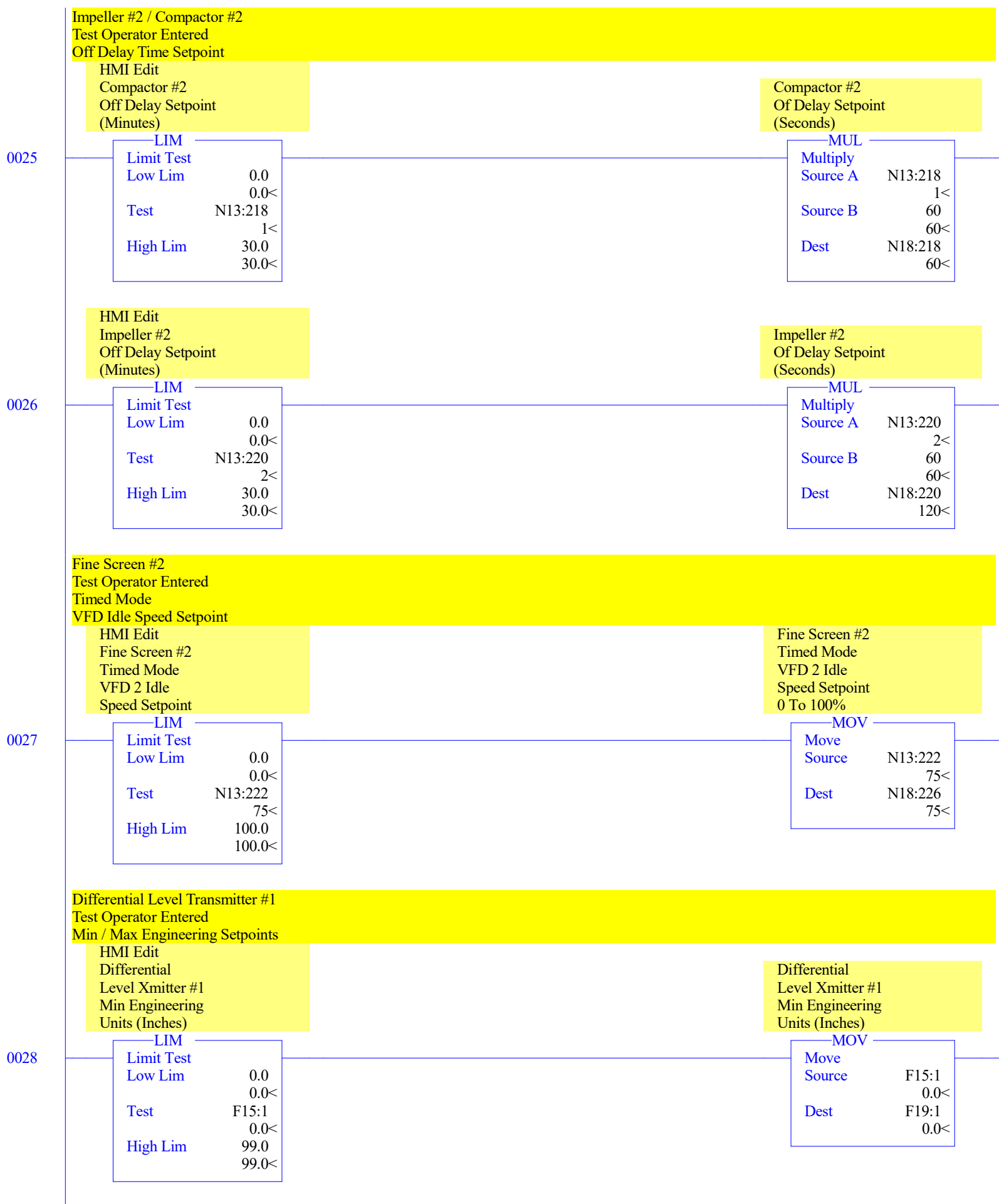
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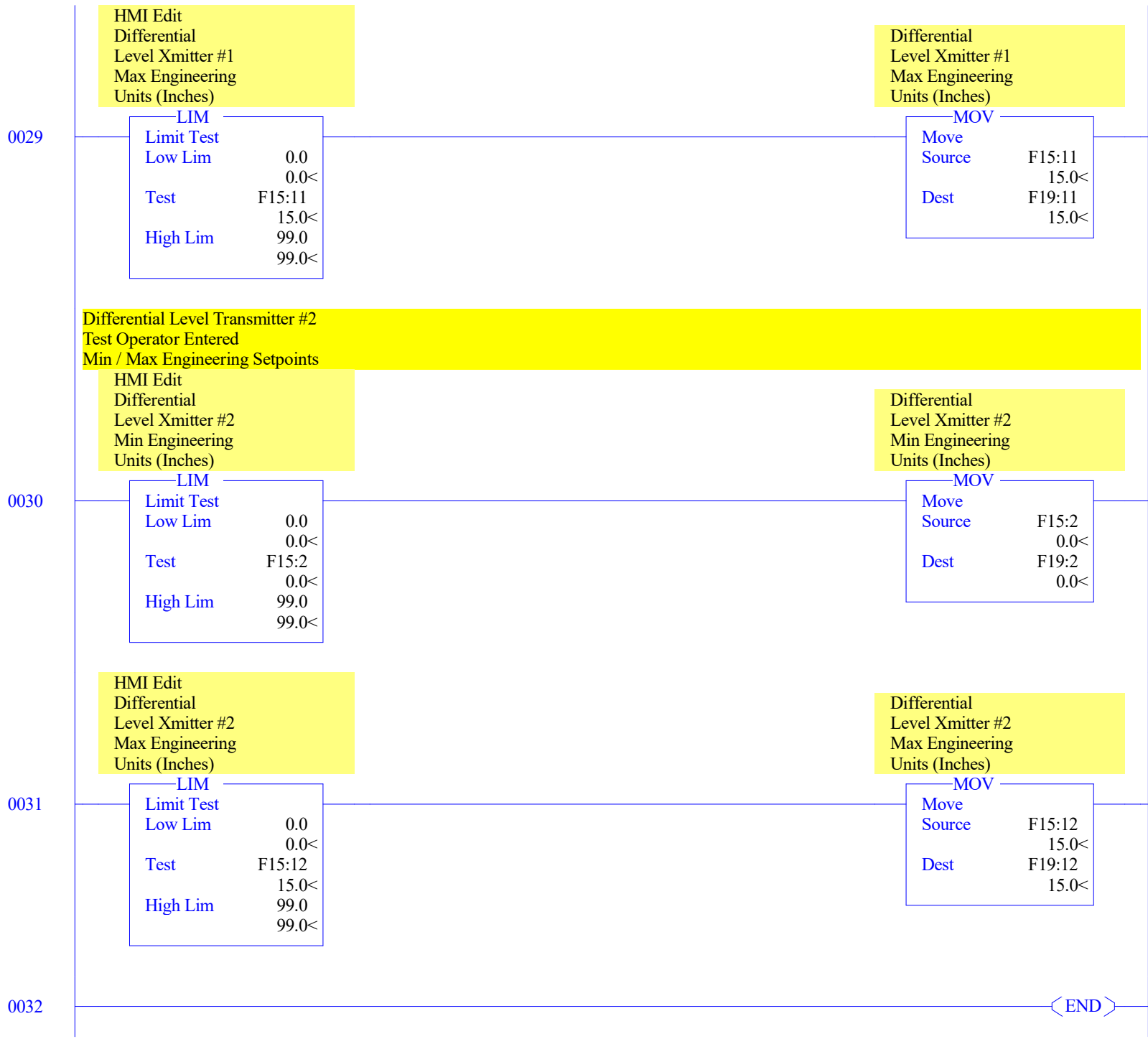


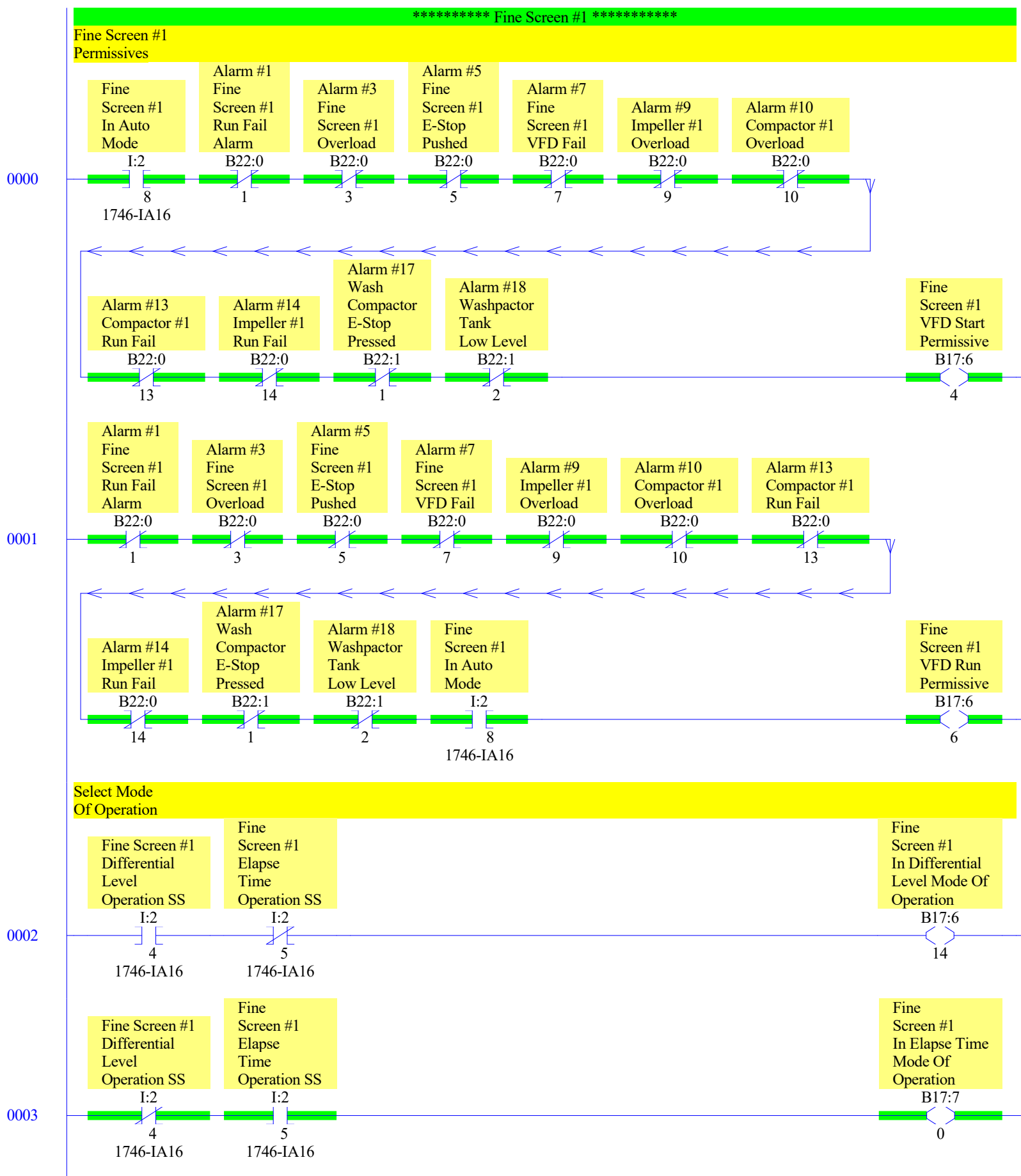


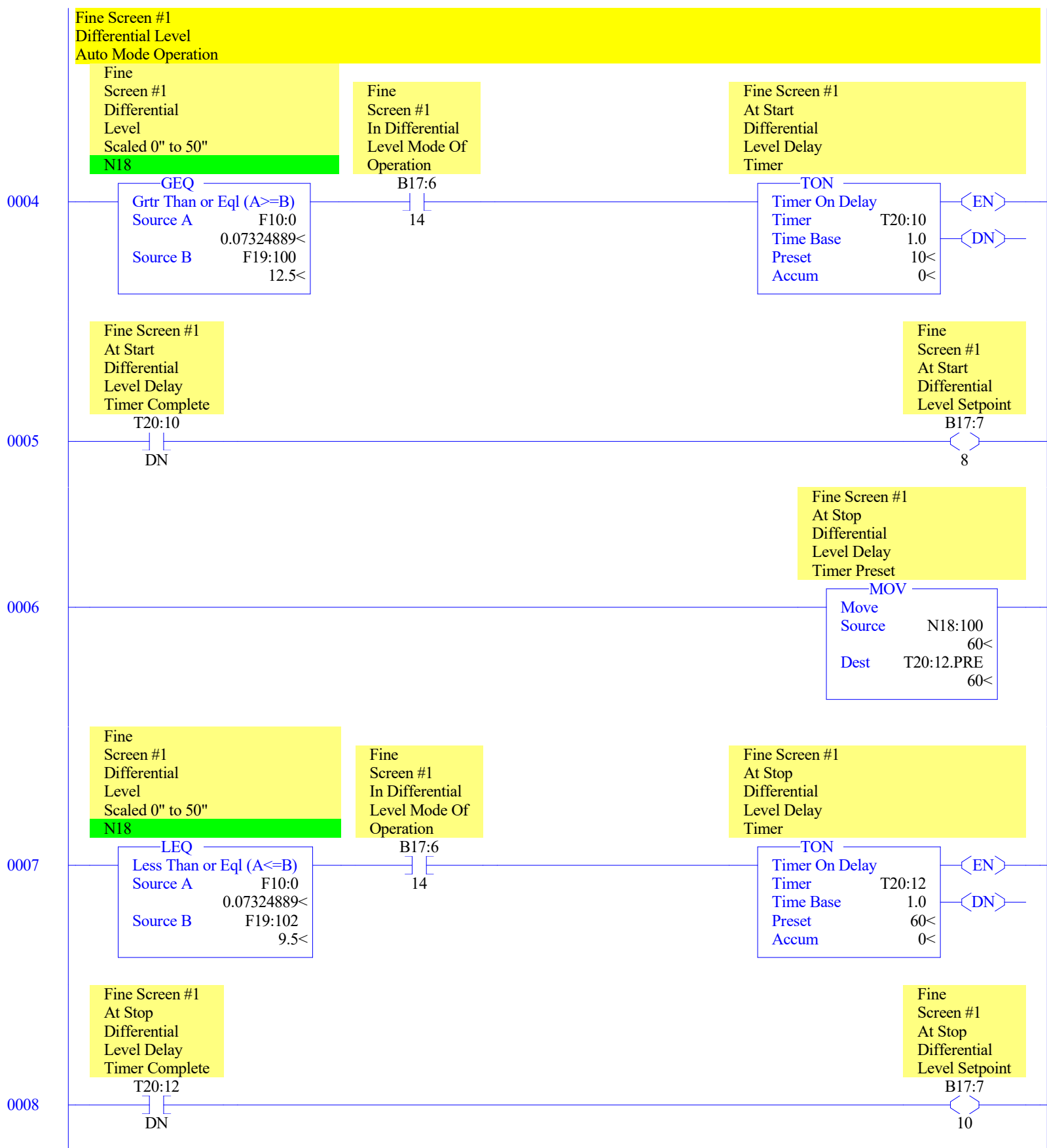


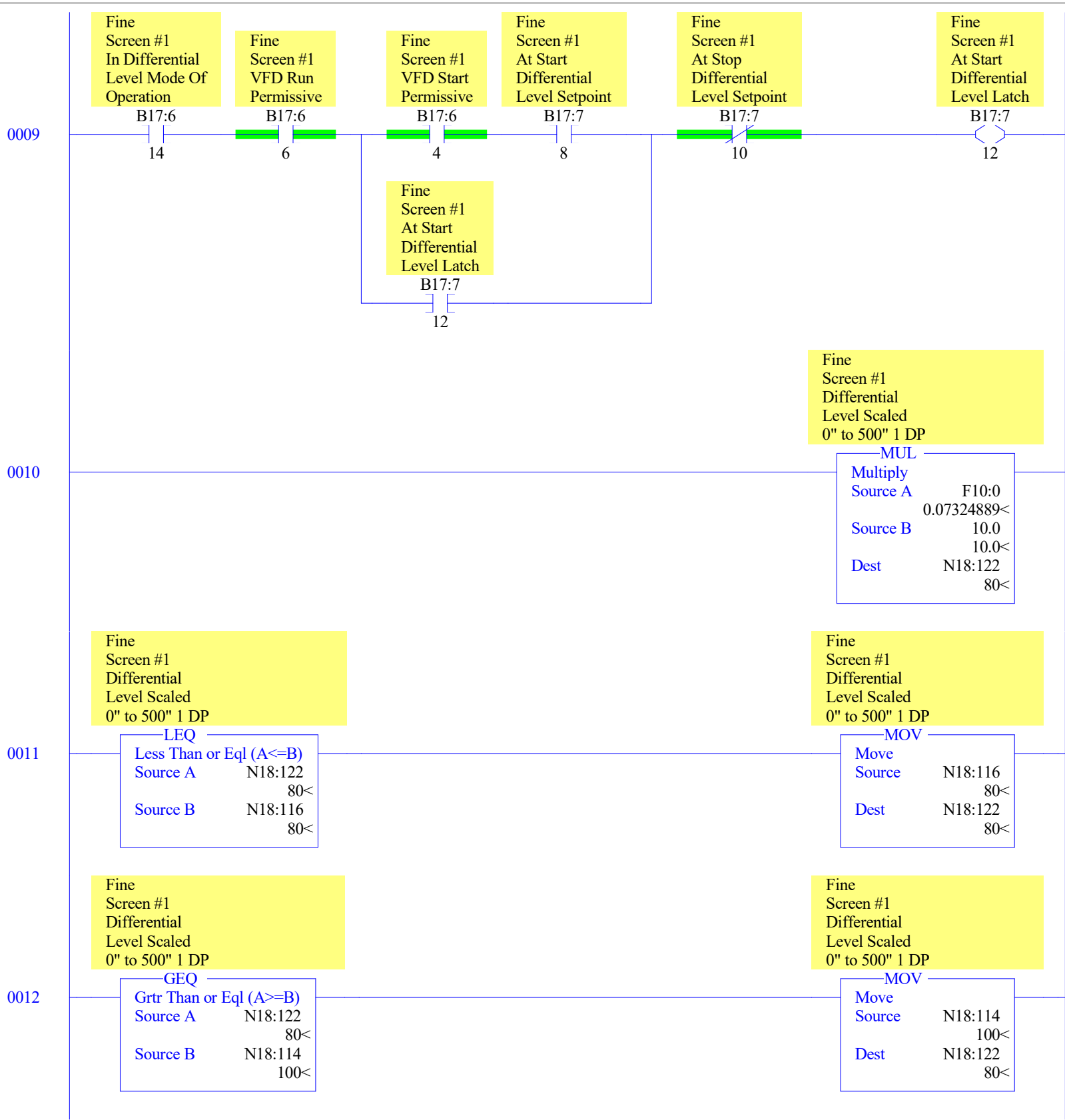


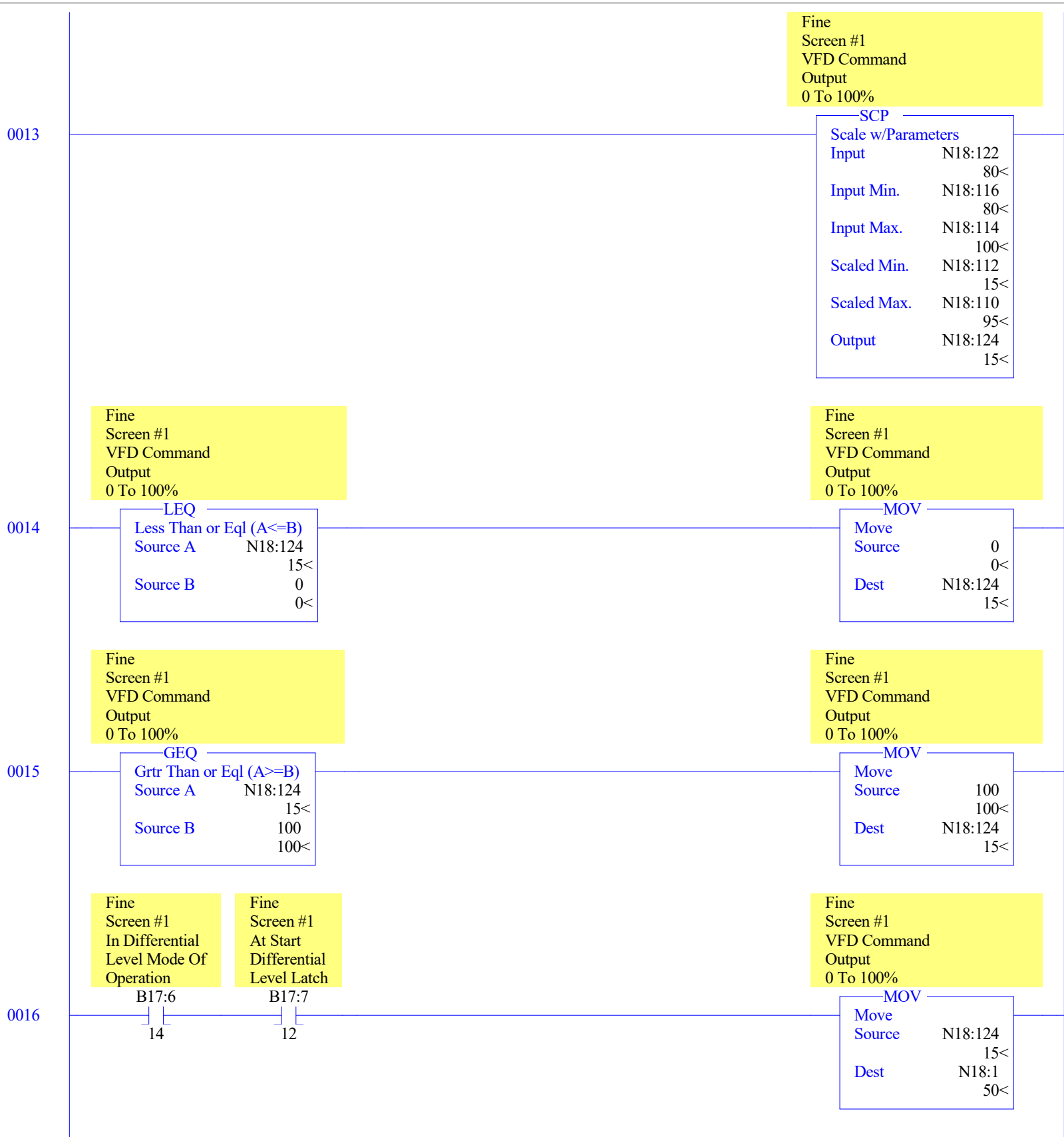


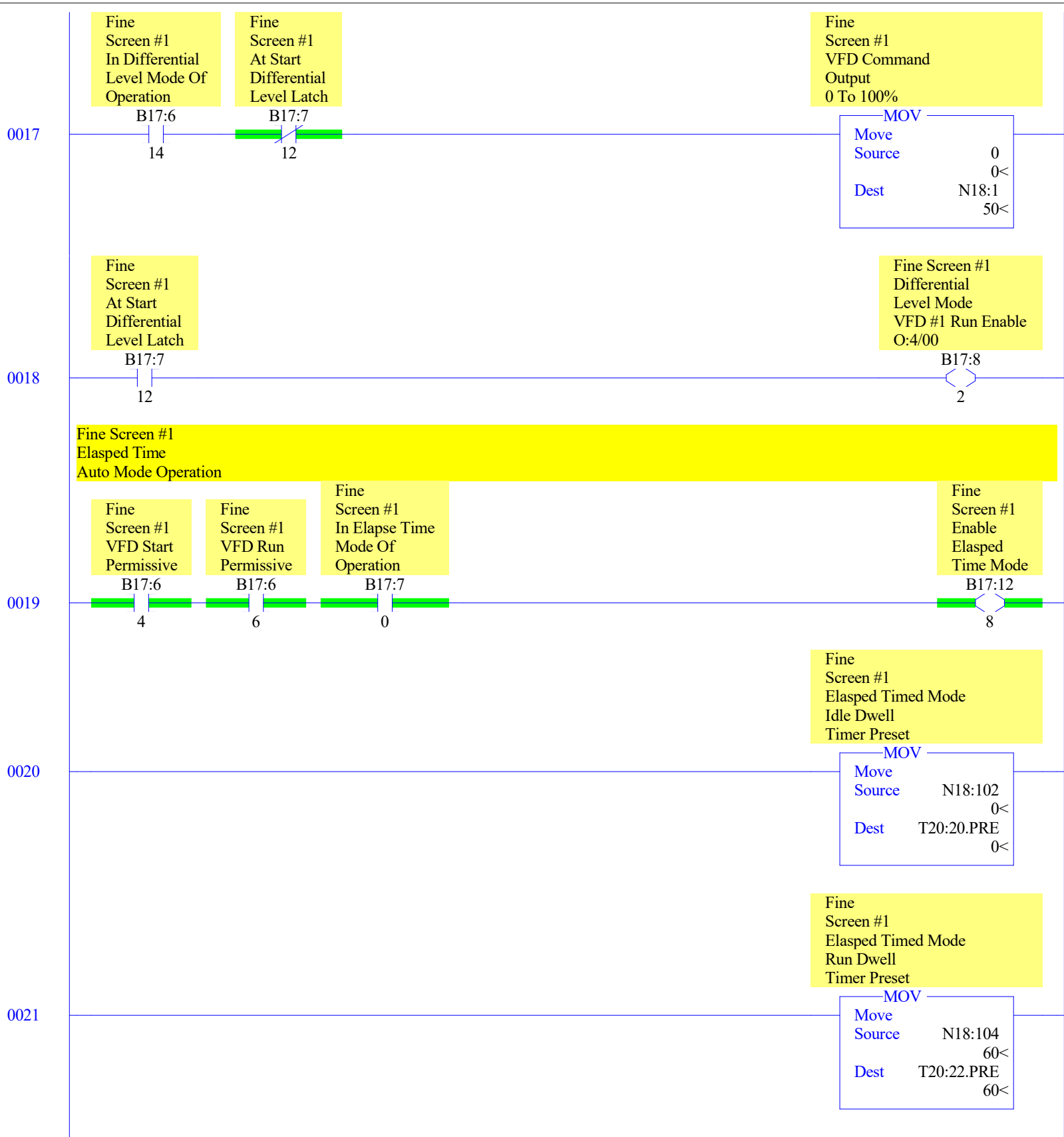


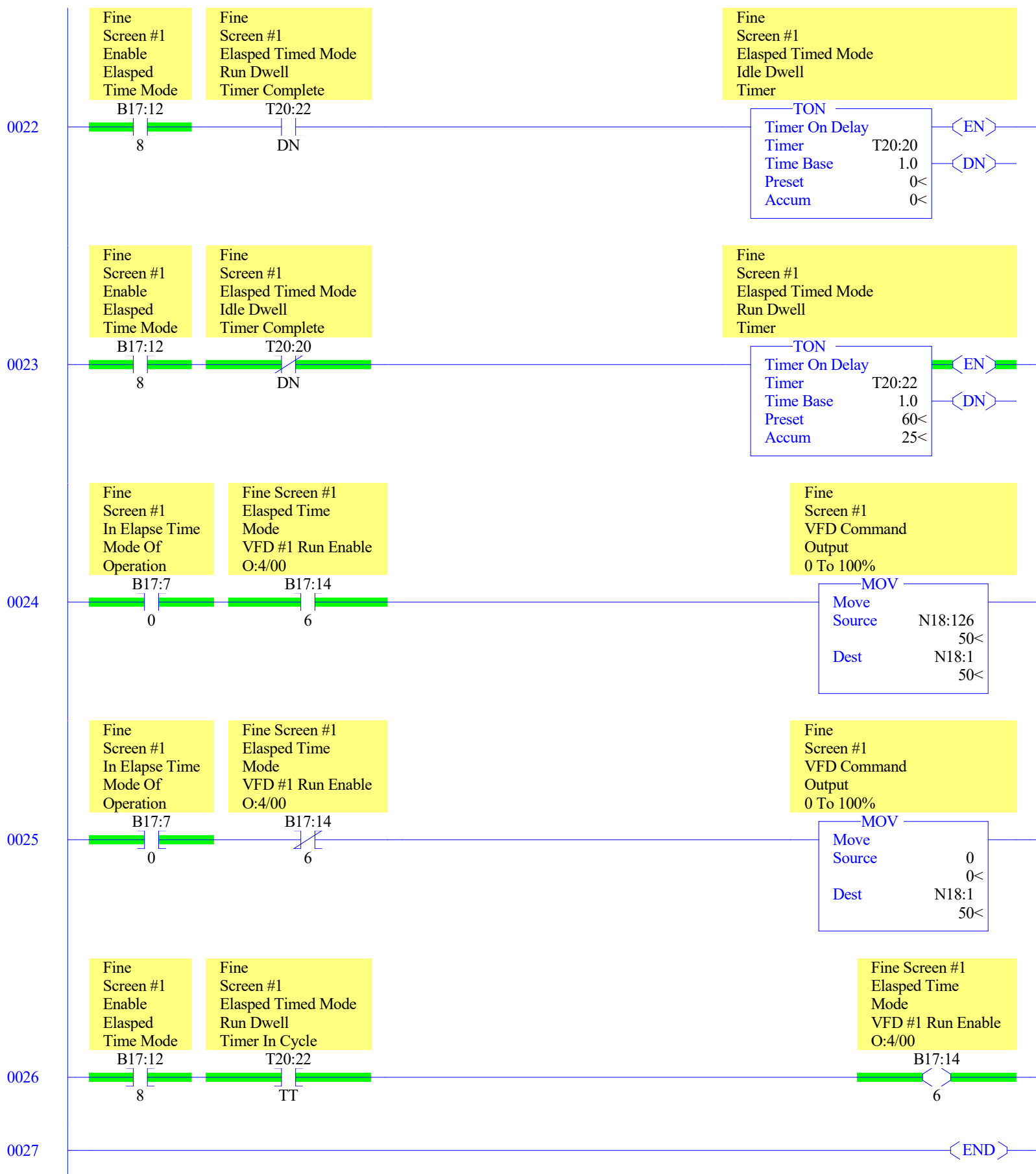




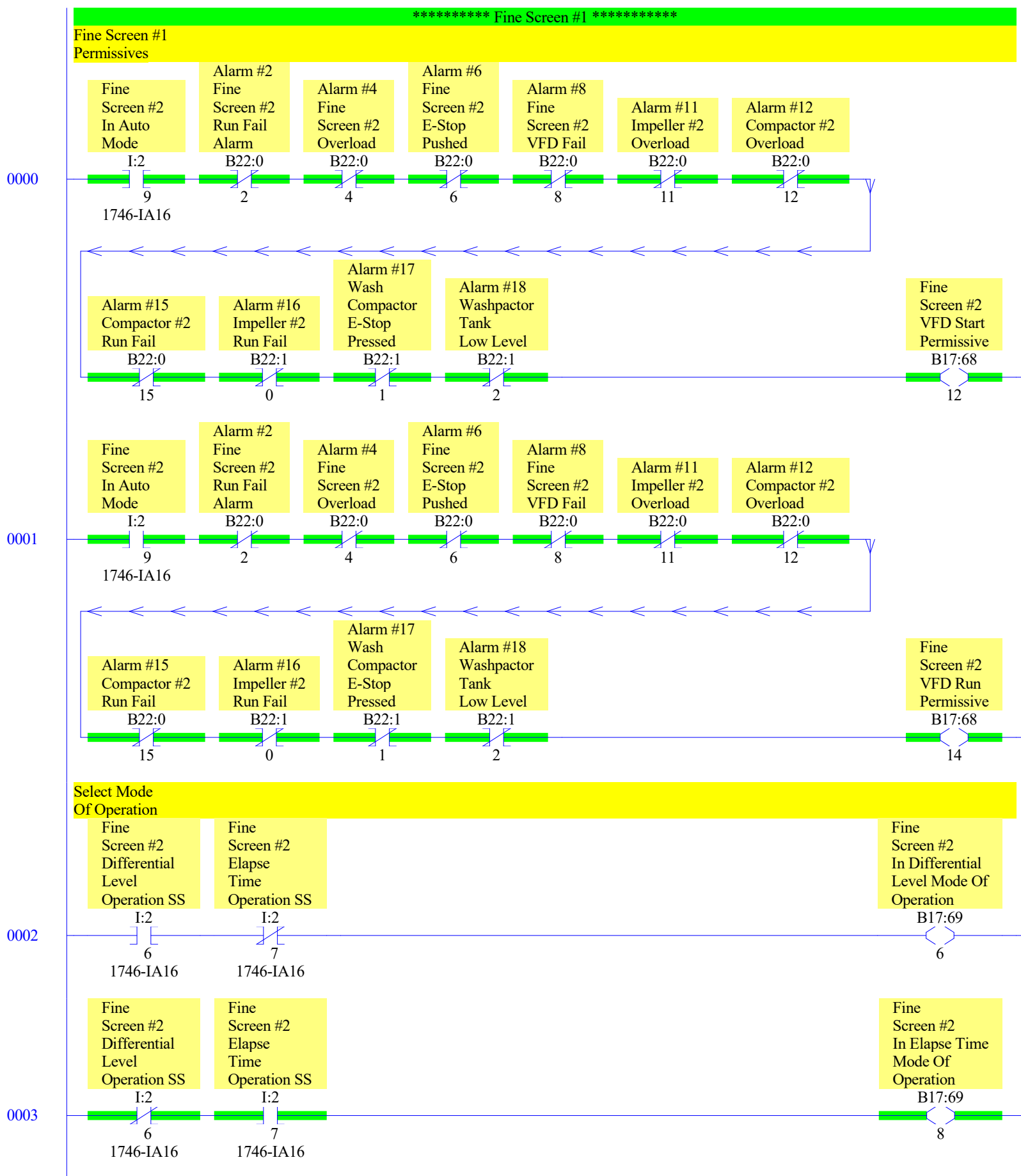


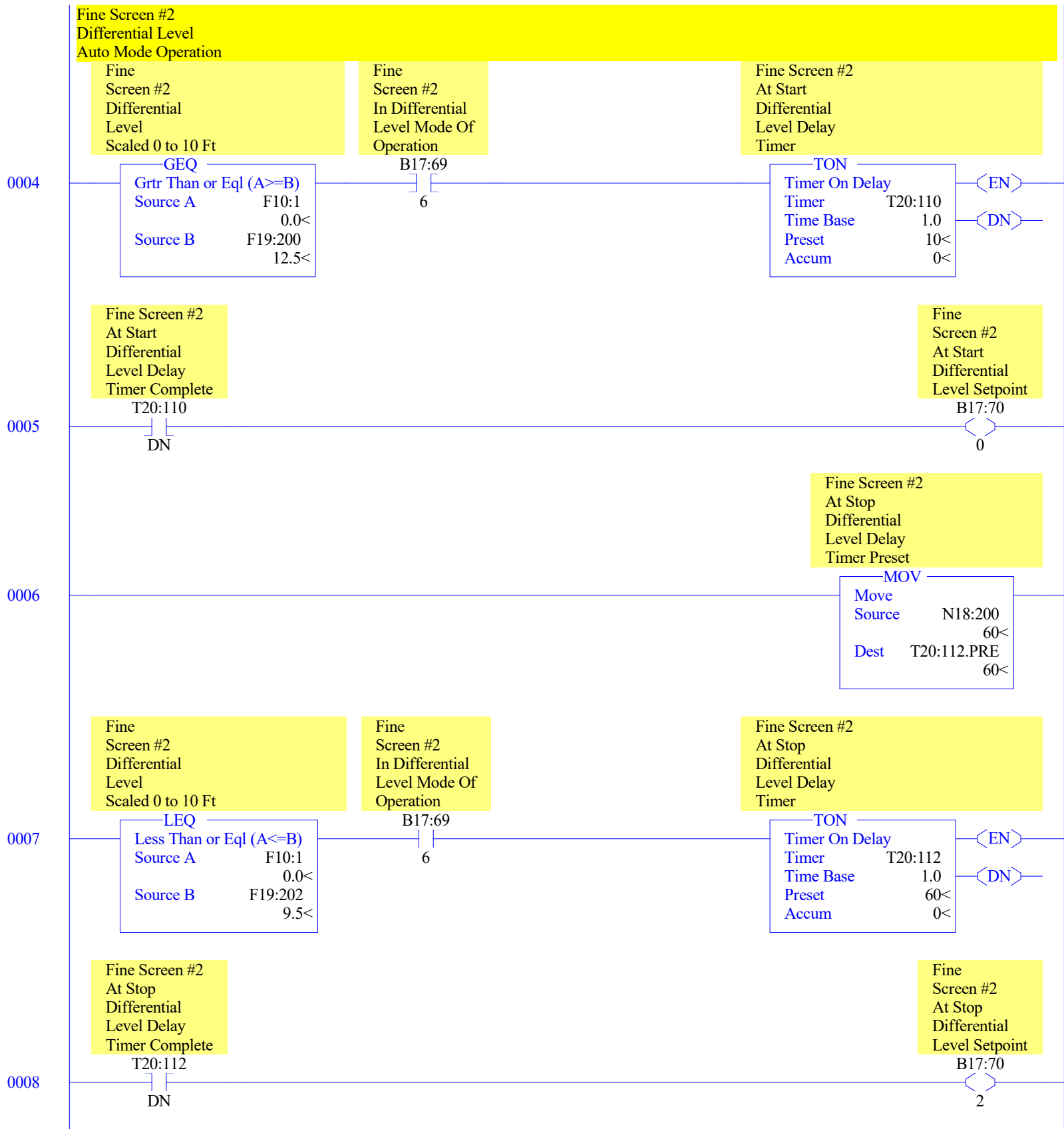


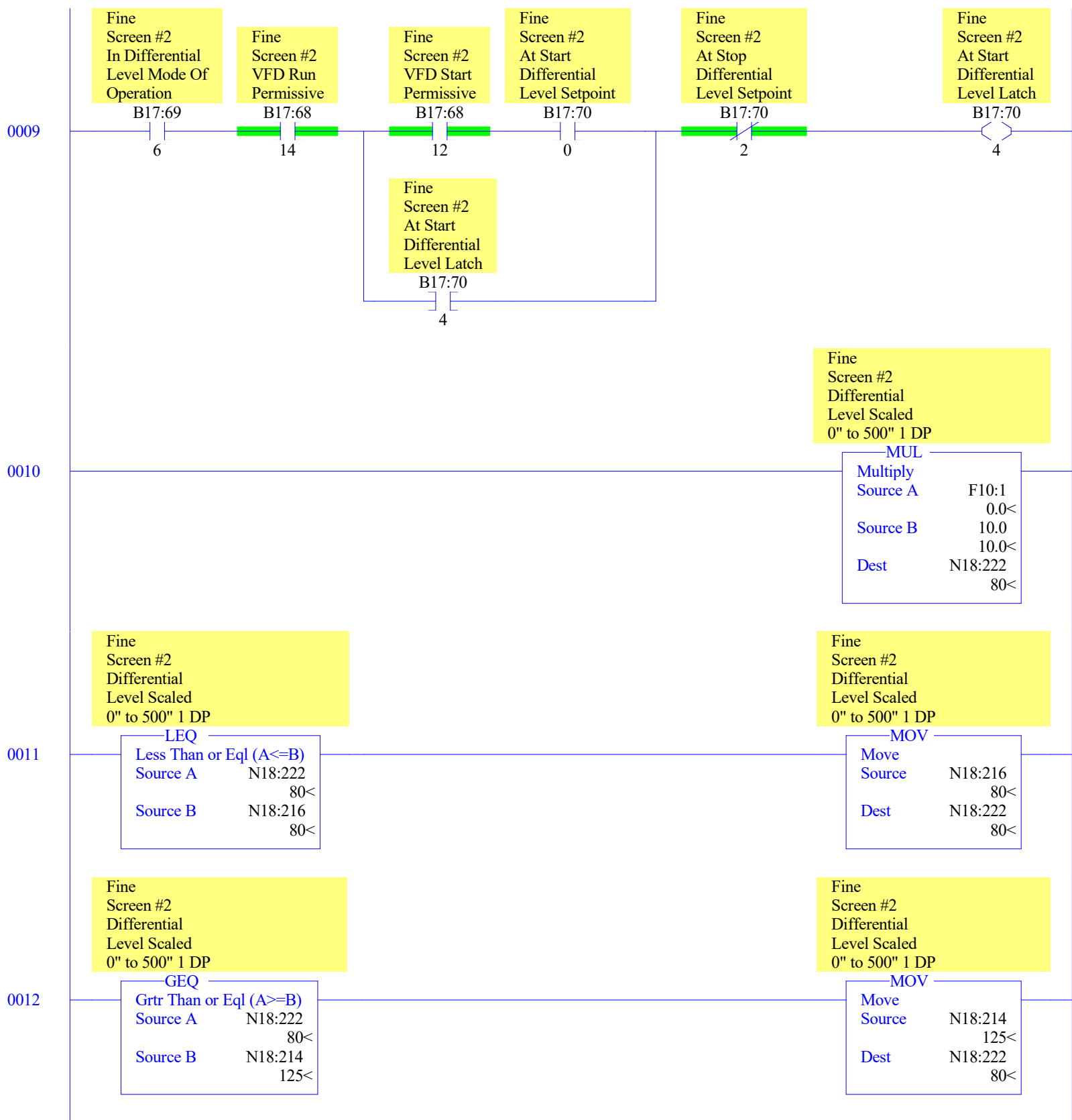


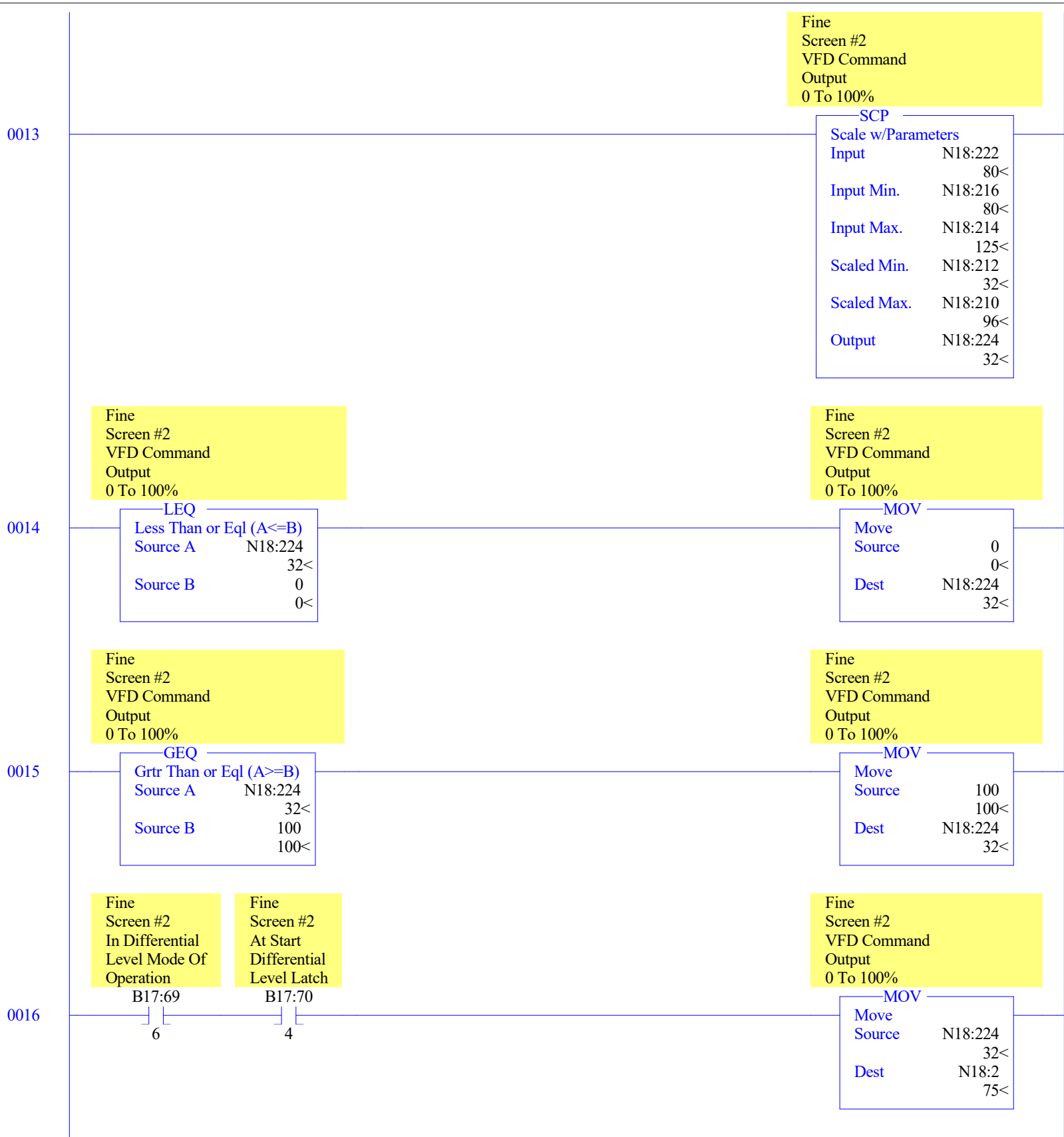


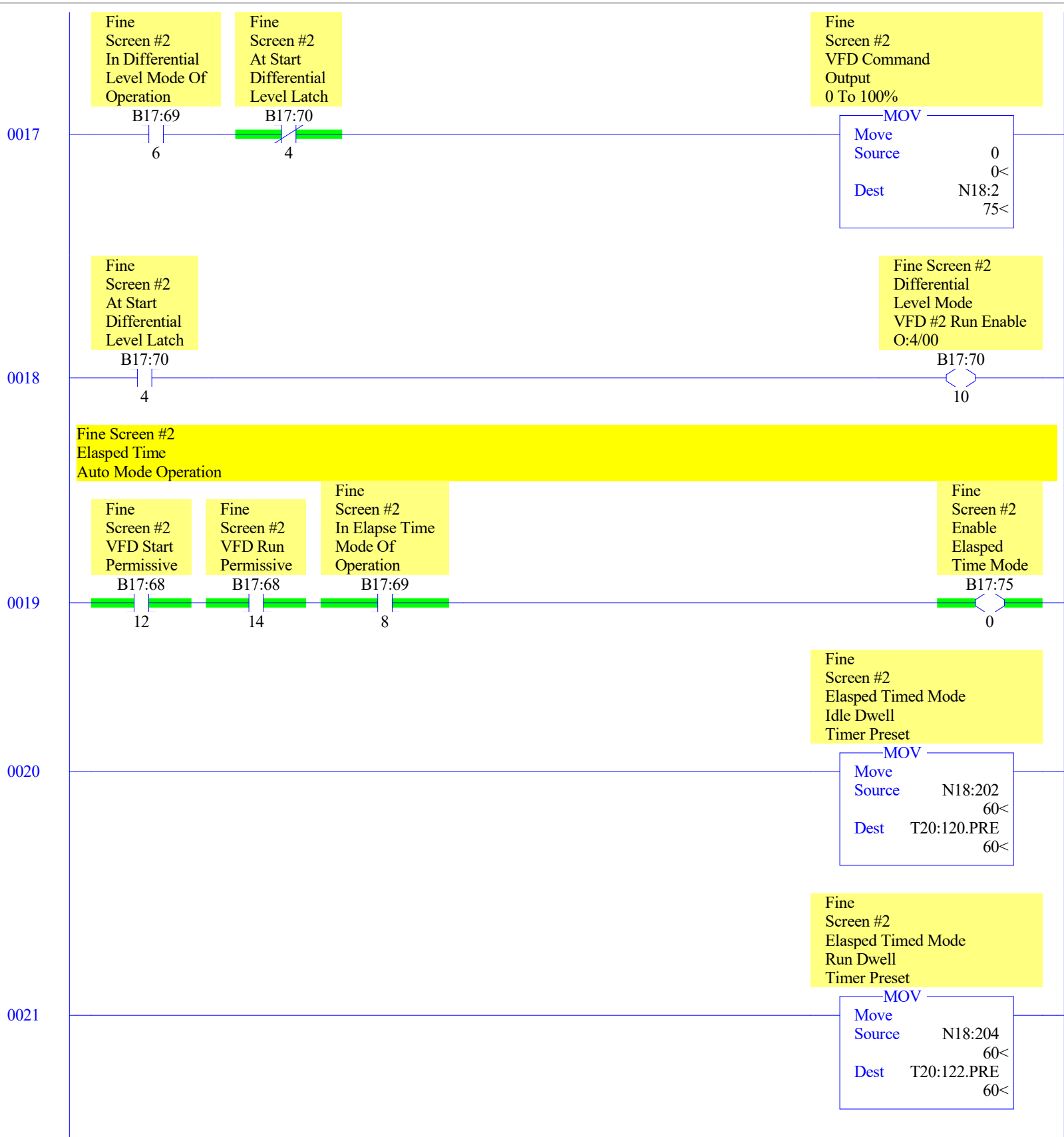


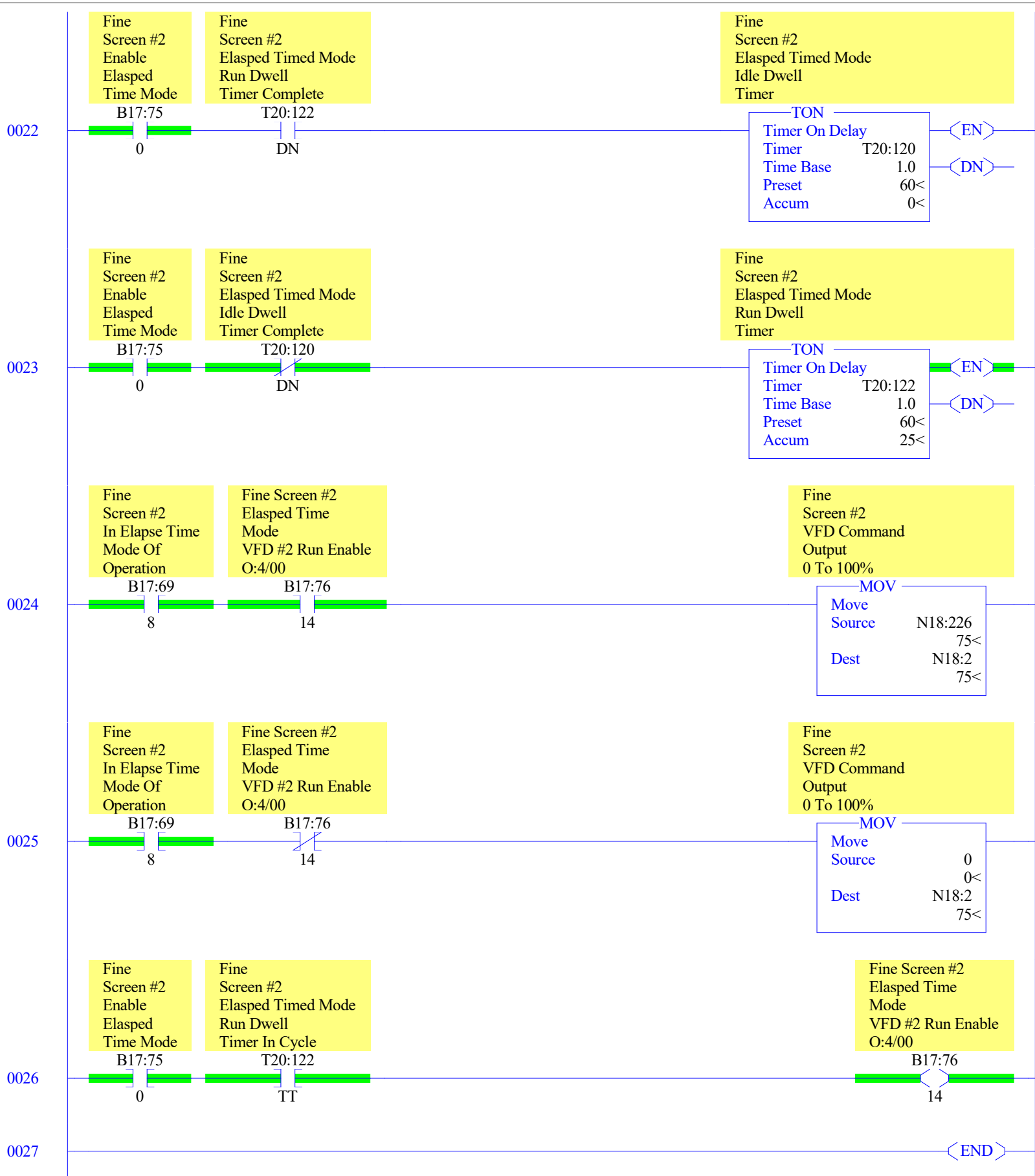


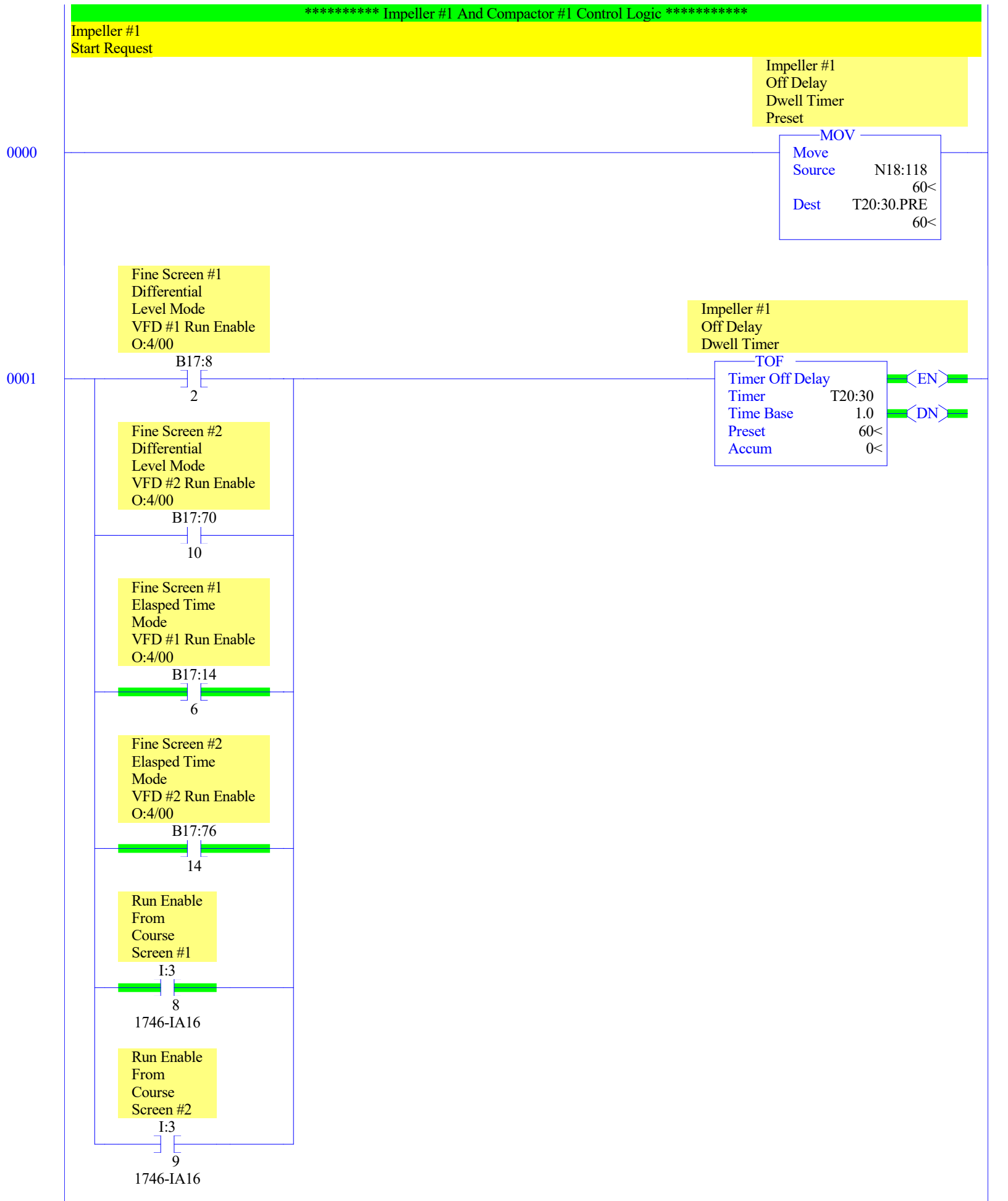


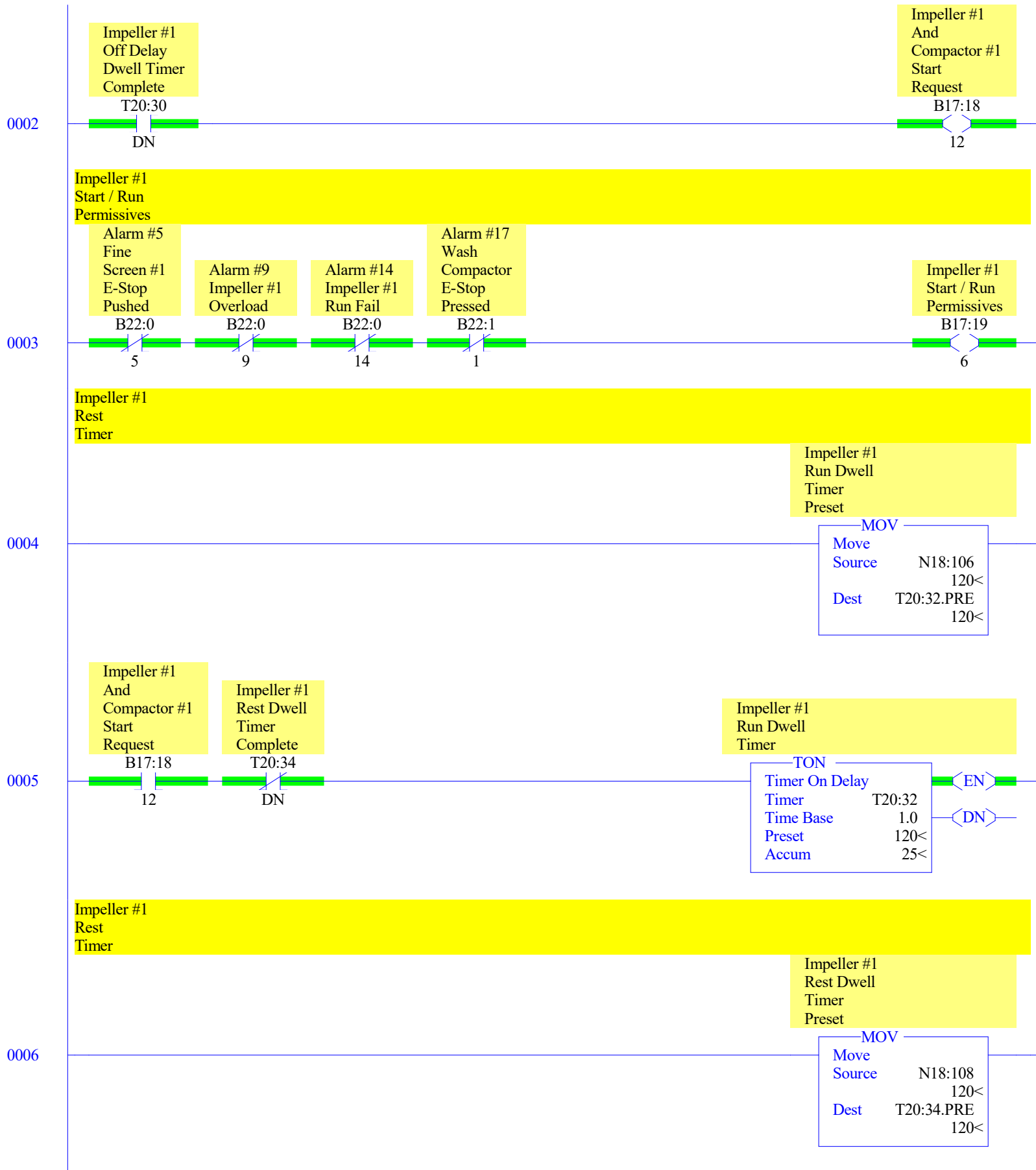




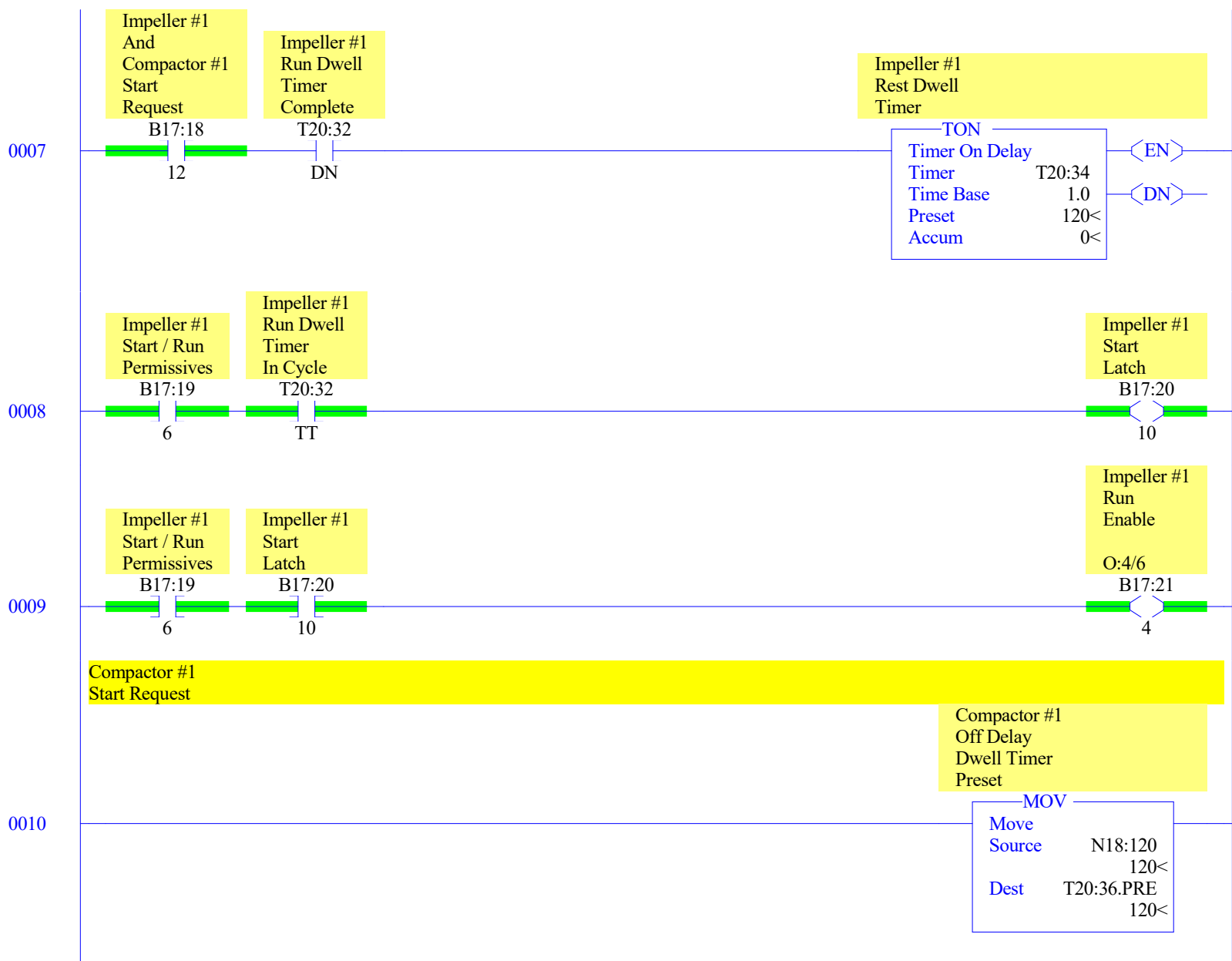












0011

Fine Screen #1  
Differential  
Level Mode  
VFD #1 Run Enable  
O:4/00

B17:8

2

Fine Screen #2  
Differential  
Level Mode  
VFD #2 Run Enable  
O:4/00

B17:70

10

Fine Screen #1  
Elapsed Time  
Mode  
VFD #1 Run Enable  
O:4/00

B17:14

6

Fine Screen #2  
Elapsed Time  
Mode  
VFD #2 Run Enable  
O:4/00

B17:76

14

Run Enable  
From  
Course  
Screen #1

I:3

8

1746-IA16

Run Enable  
From  
Course  
Screen #2

I:3

9

1746-IA16

Compactor #1  
Off Delay  
Dwell Timer

TOF  
Timer Off Delay  
Timer T20:36  
Time Base 1.0  
Preset 120<  
Accum 0<

<EN>

<DN>

0012

Compactor #1  
Off Delay  
Dwell Timer  
Complete

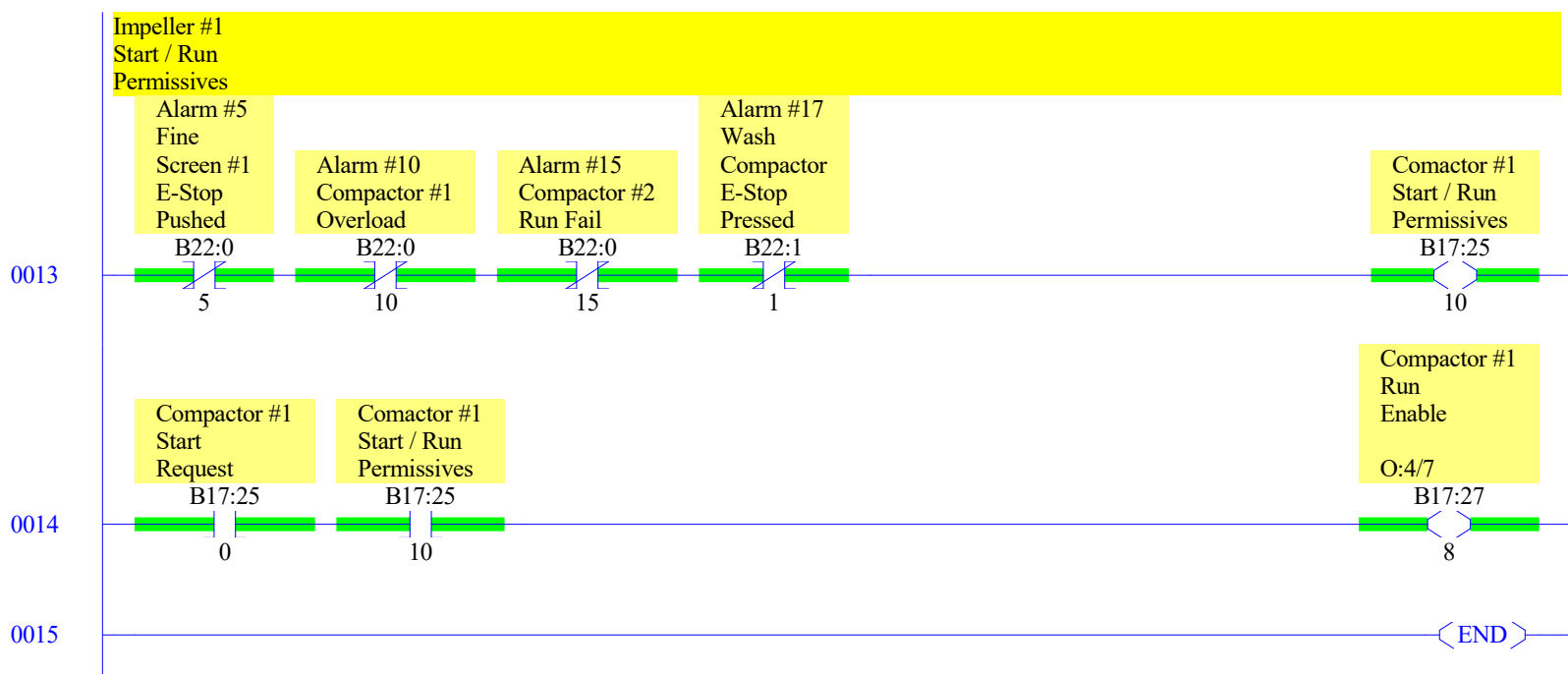
T20:36

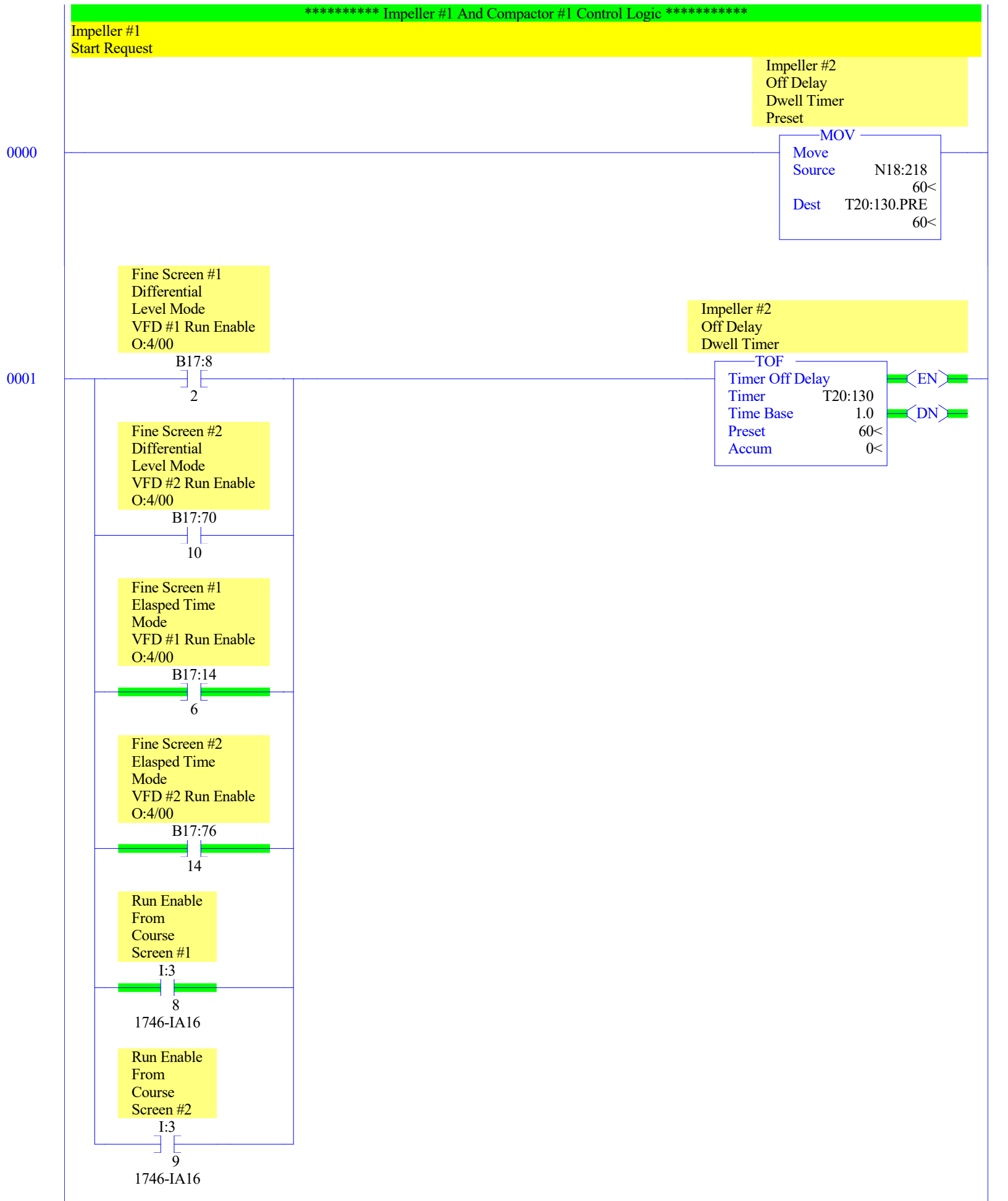
DN

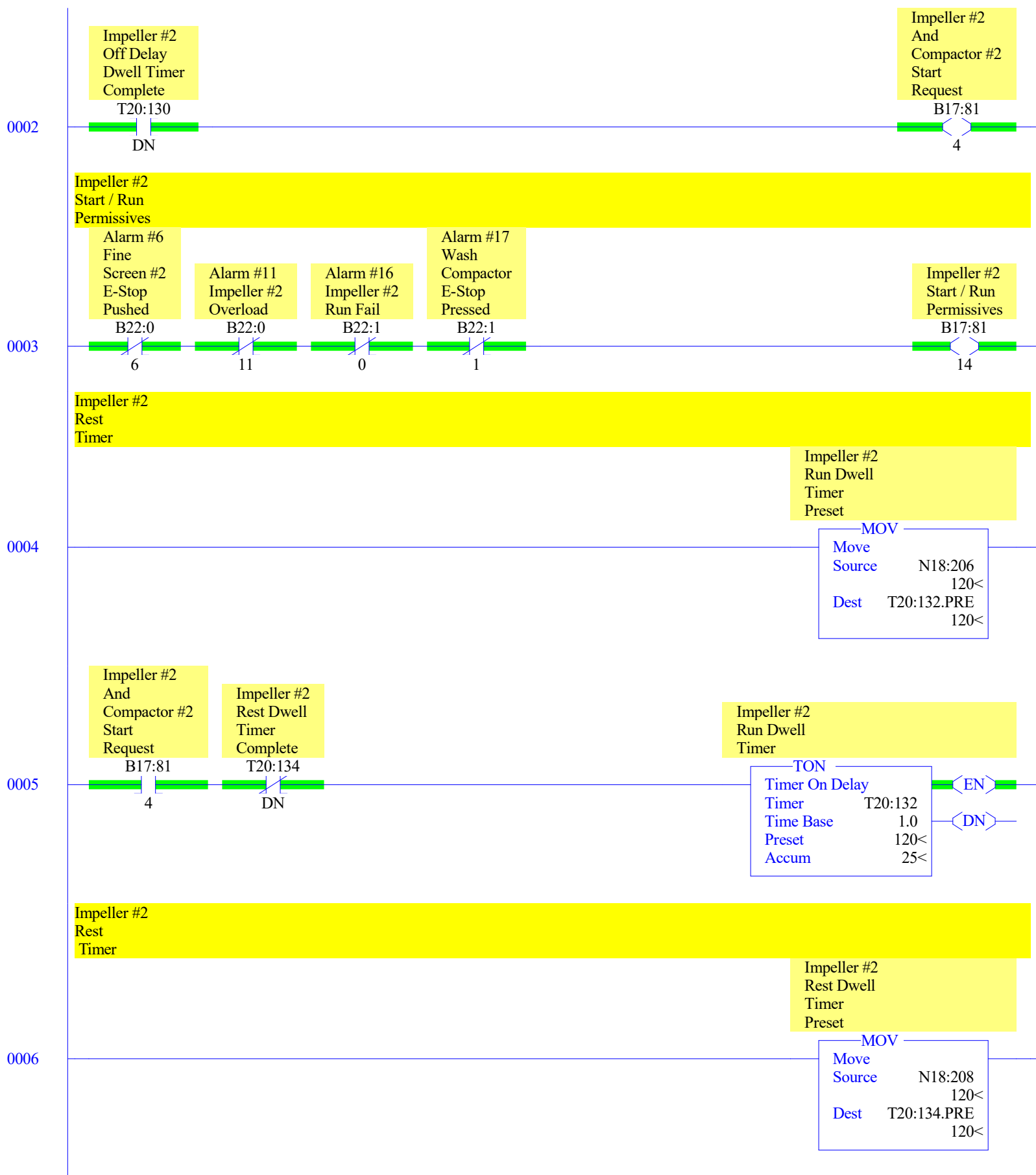
Compactor #1  
Start  
Request

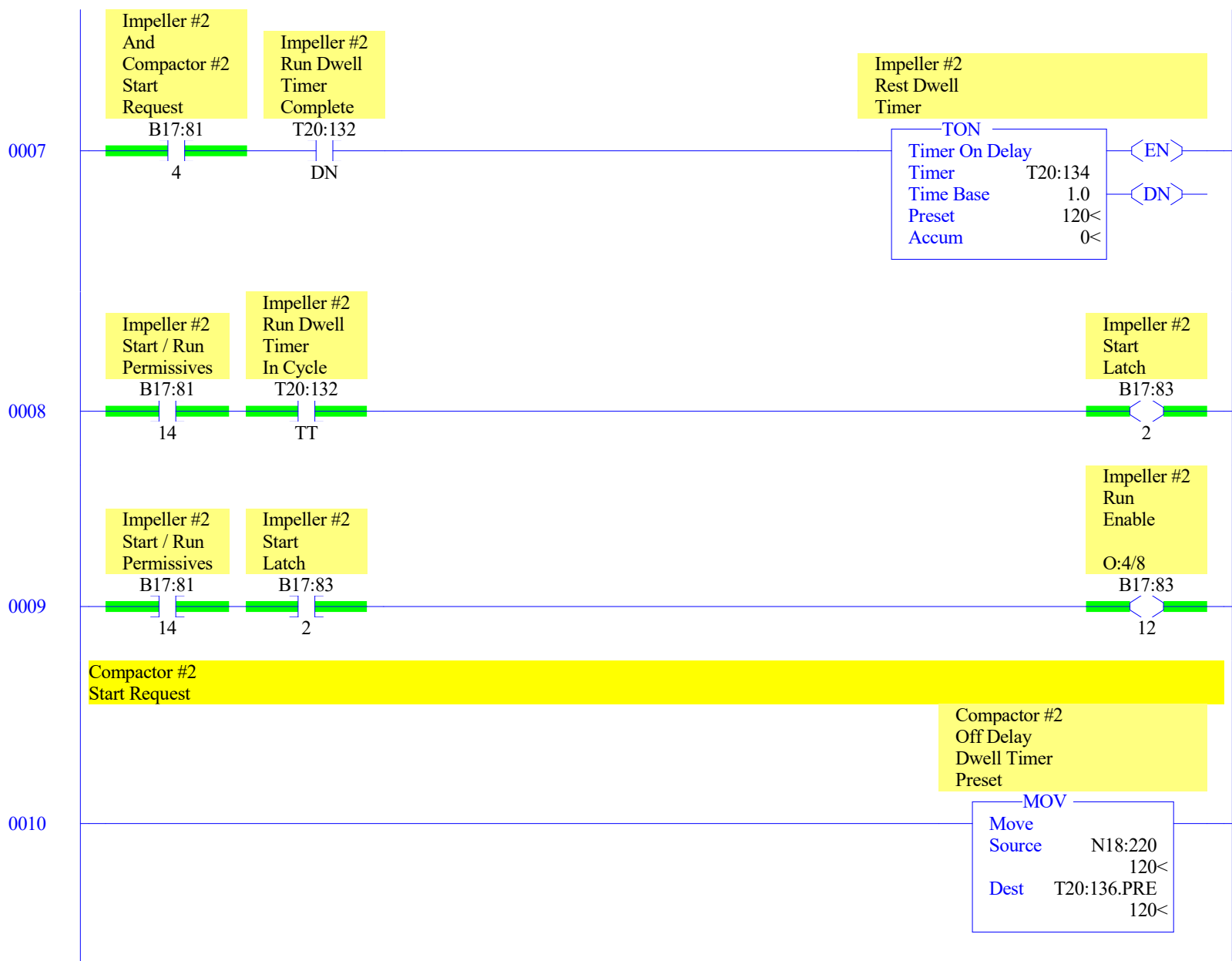
B17:25

0









0011

Fine Screen #1  
Differential  
Level Mode  
VFD #1 Run Enable  
O:4/00

B17:8

2

Fine Screen #2  
Differential  
Level Mode  
VFD #2 Run Enable  
O:4/00

B17:70

10

Fine Screen #1  
Elapsed Time  
Mode  
VFD #1 Run Enable  
O:4/00

B17:14

6

Fine Screen #2  
Elapsed Time  
Mode  
VFD #2 Run Enable  
O:4/00

B17:76

14

Run Enable  
From  
Course  
Screen #1

I:3

8

1746-IA16

Run Enable  
From  
Course  
Screen #2

I:3

9

1746-IA16

Compactor #2  
Off Delay  
Dwell Timer

TOF  
Timer Off Delay  
Timer T20:136  
Time Base 1.0  
Preset 120<  
Accum 0<

<EN>

<DN>

0012

Compactor #2  
Off Delay  
Dwell Timer  
Complete

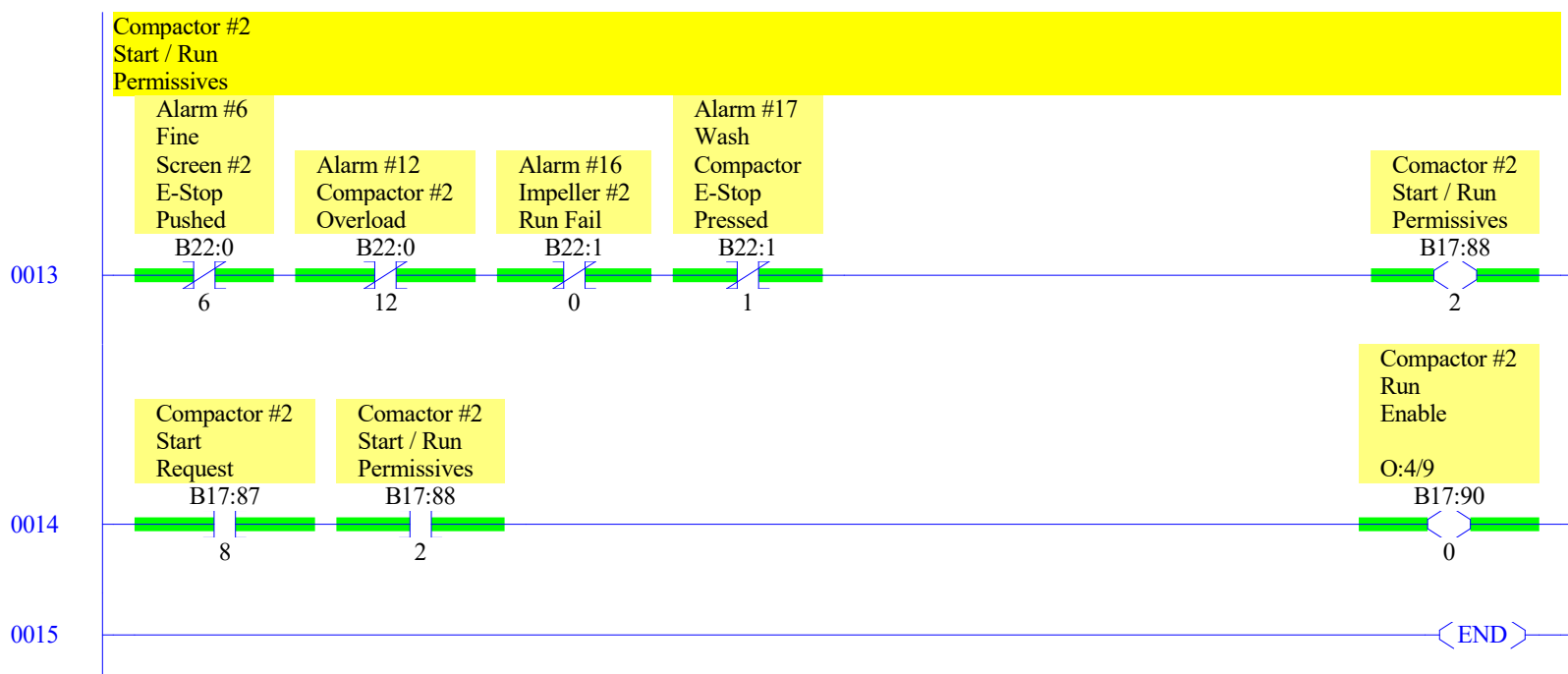
T20:136

DN

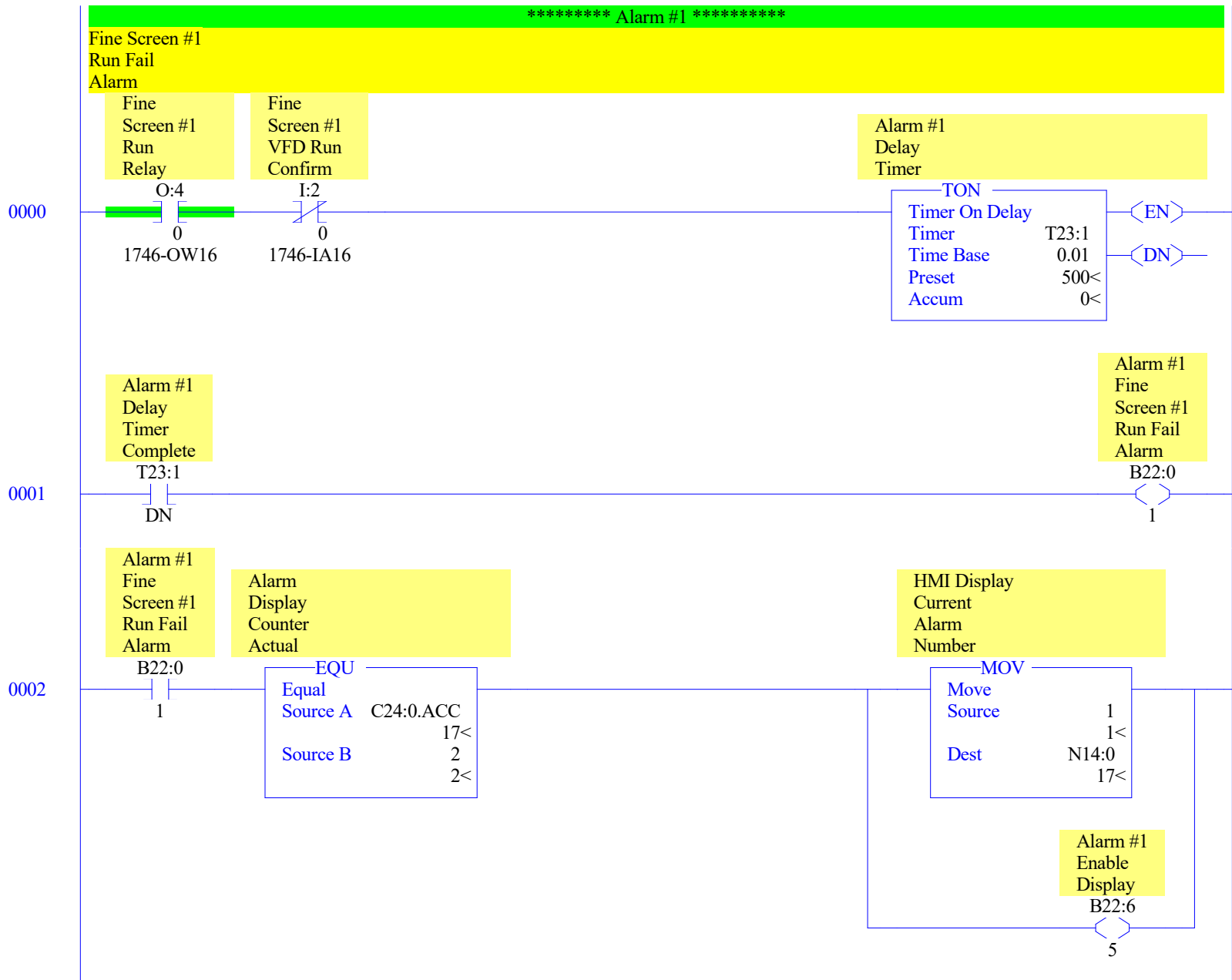
Compactor #2  
Start  
Request

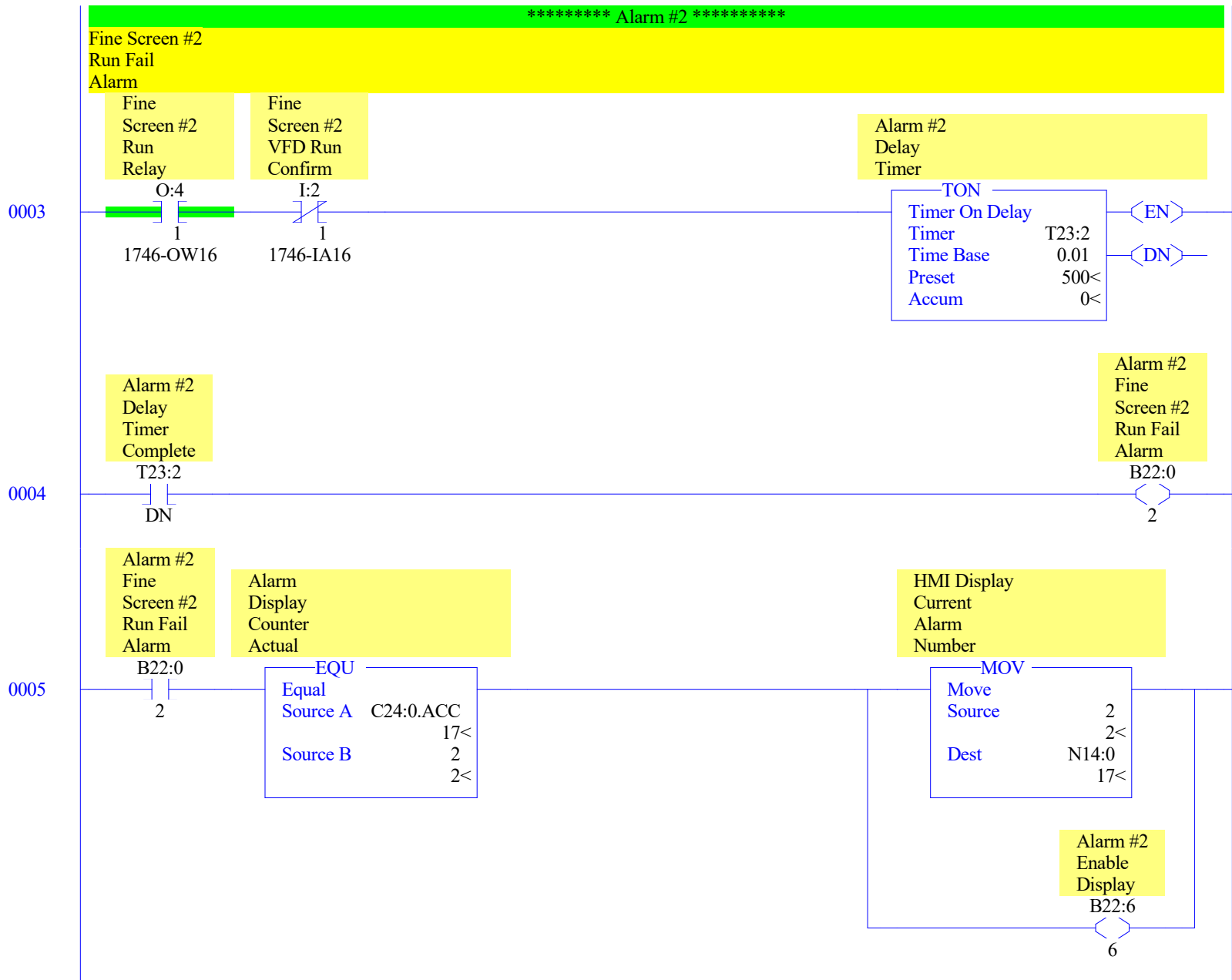
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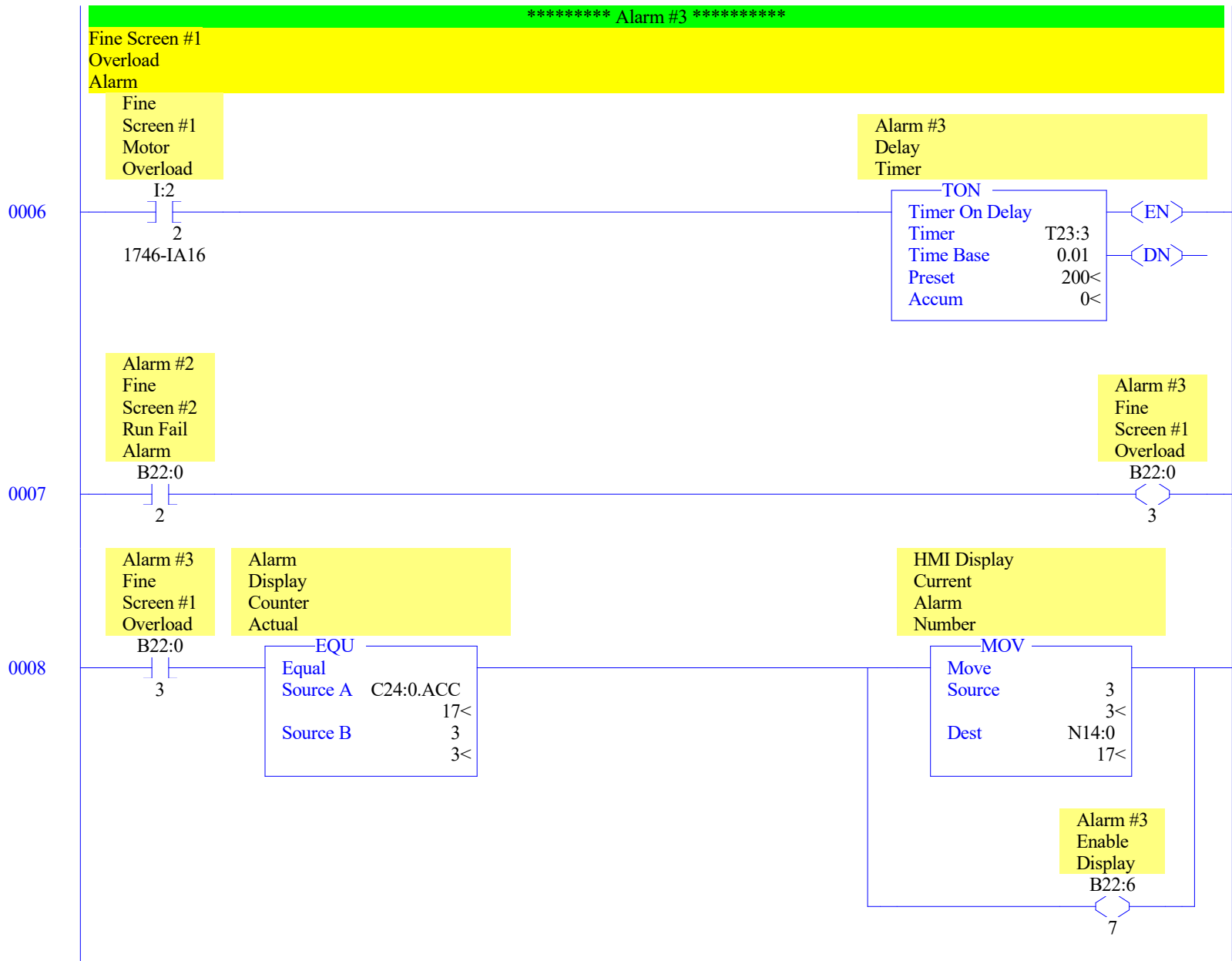
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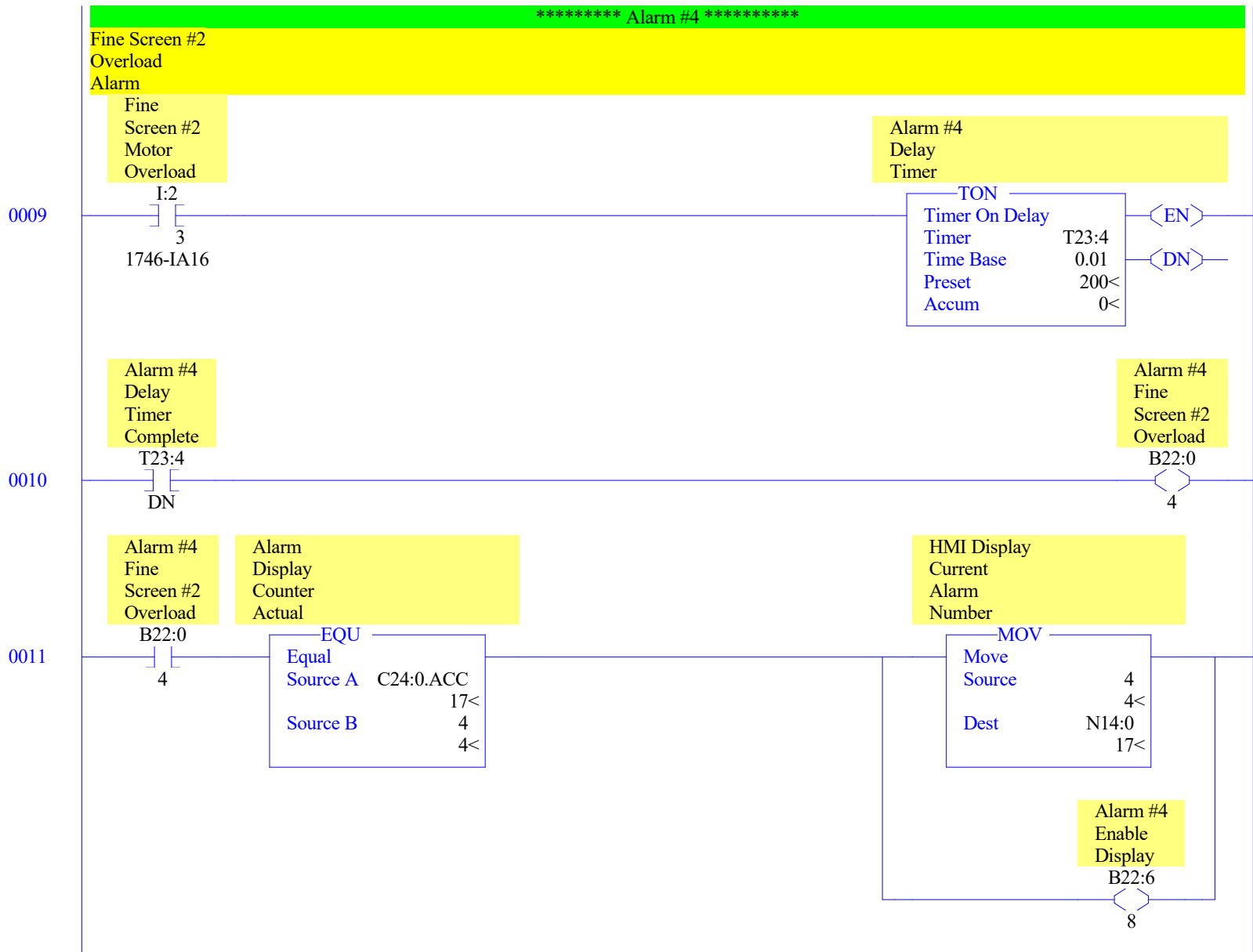


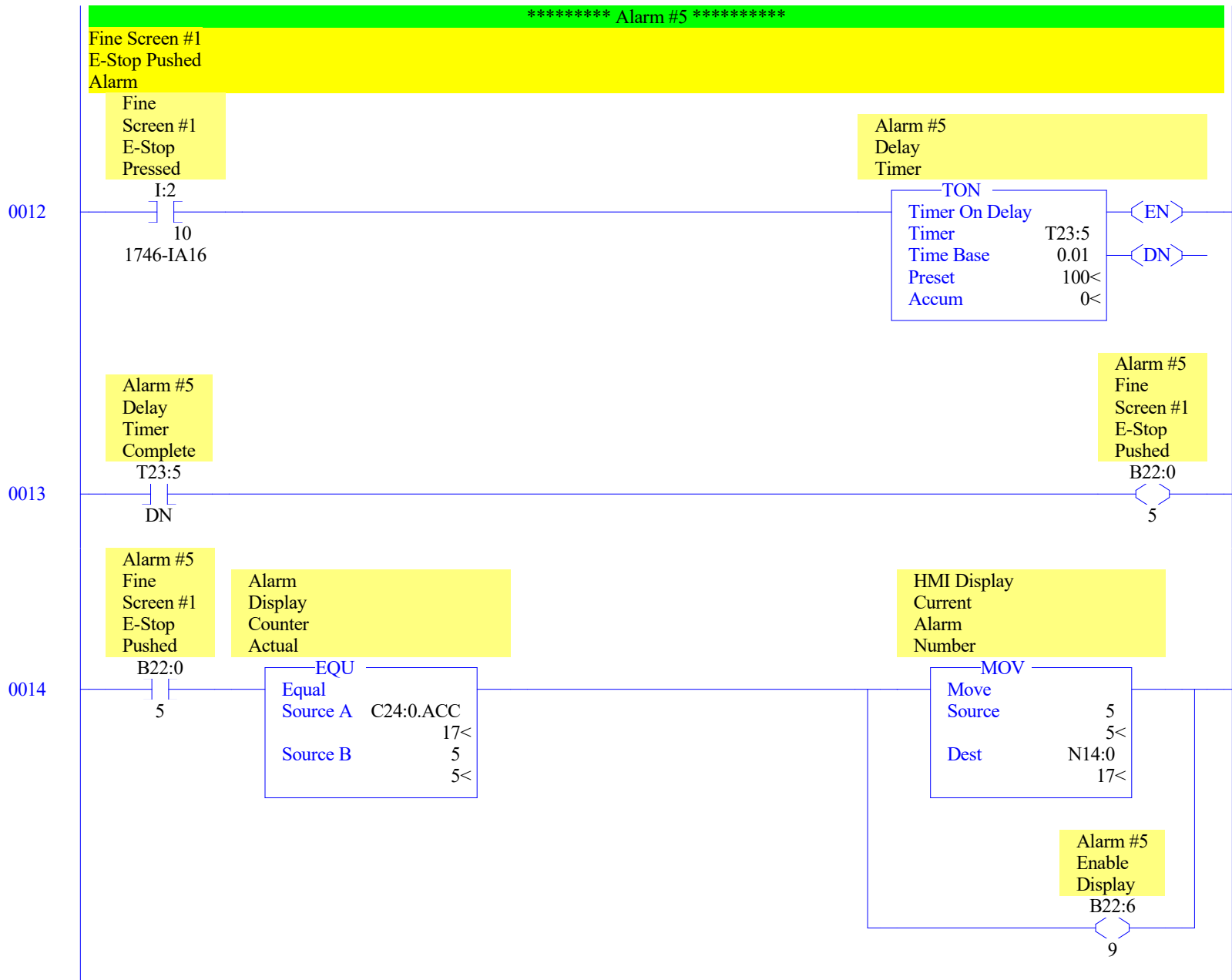


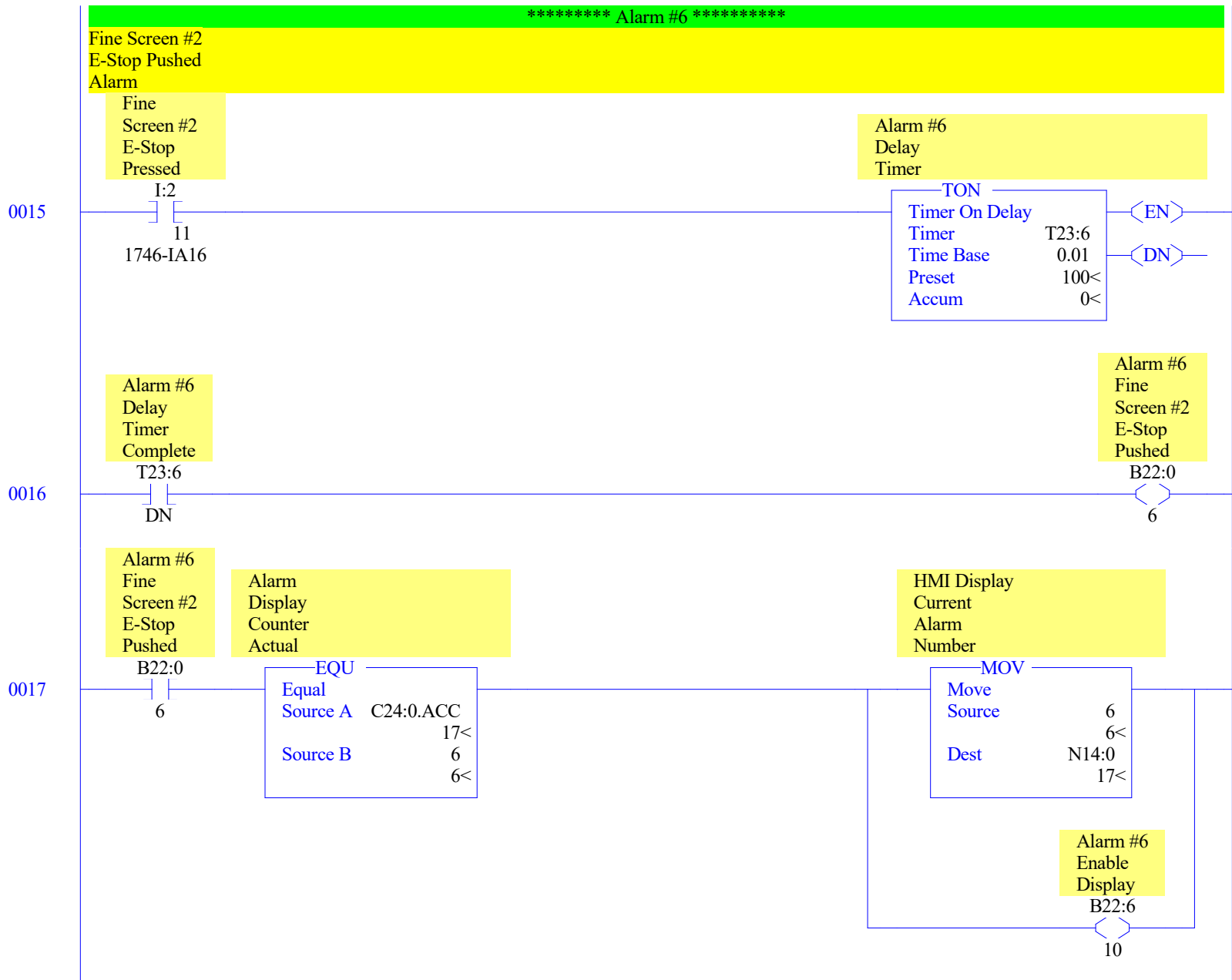


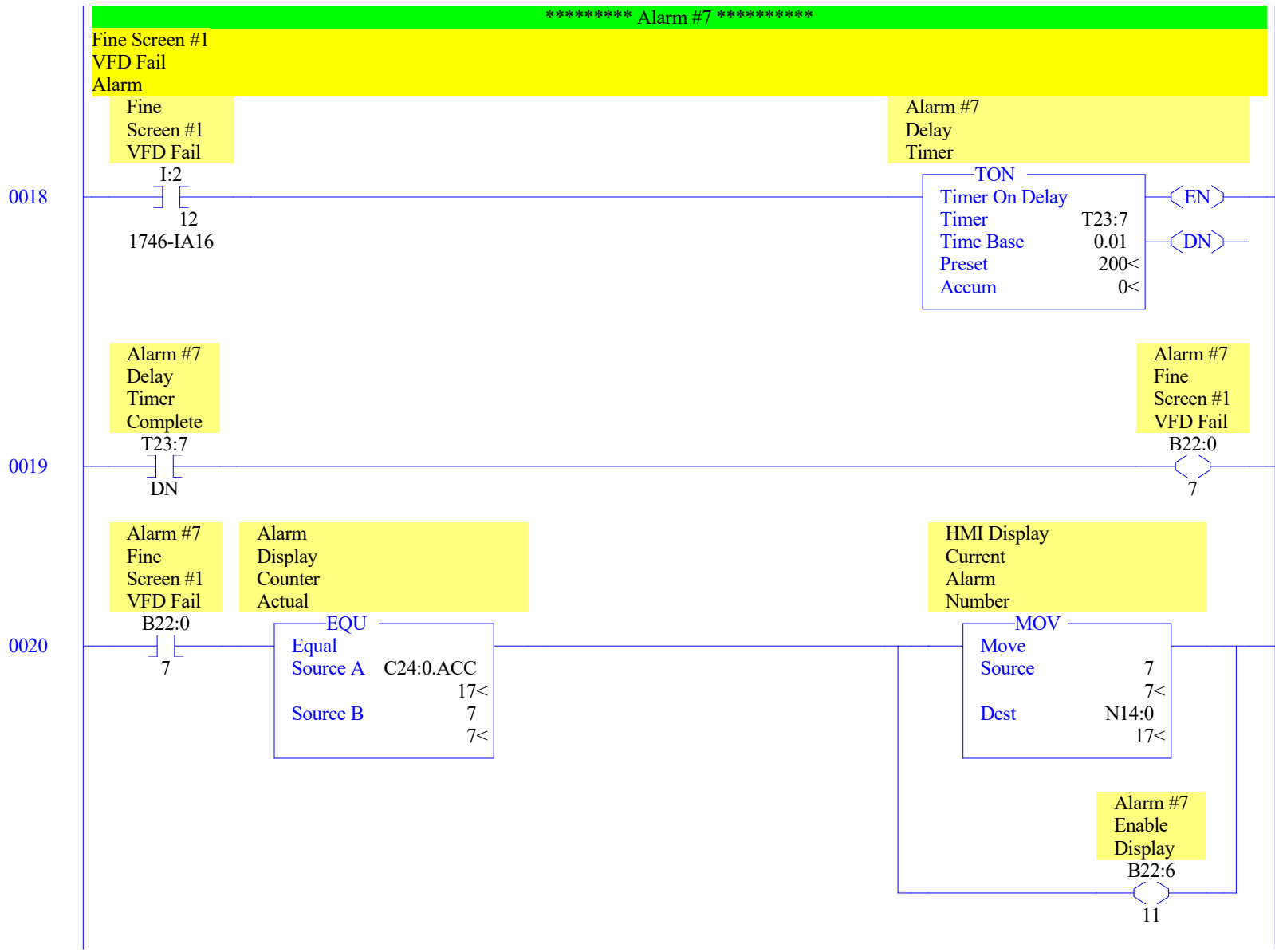


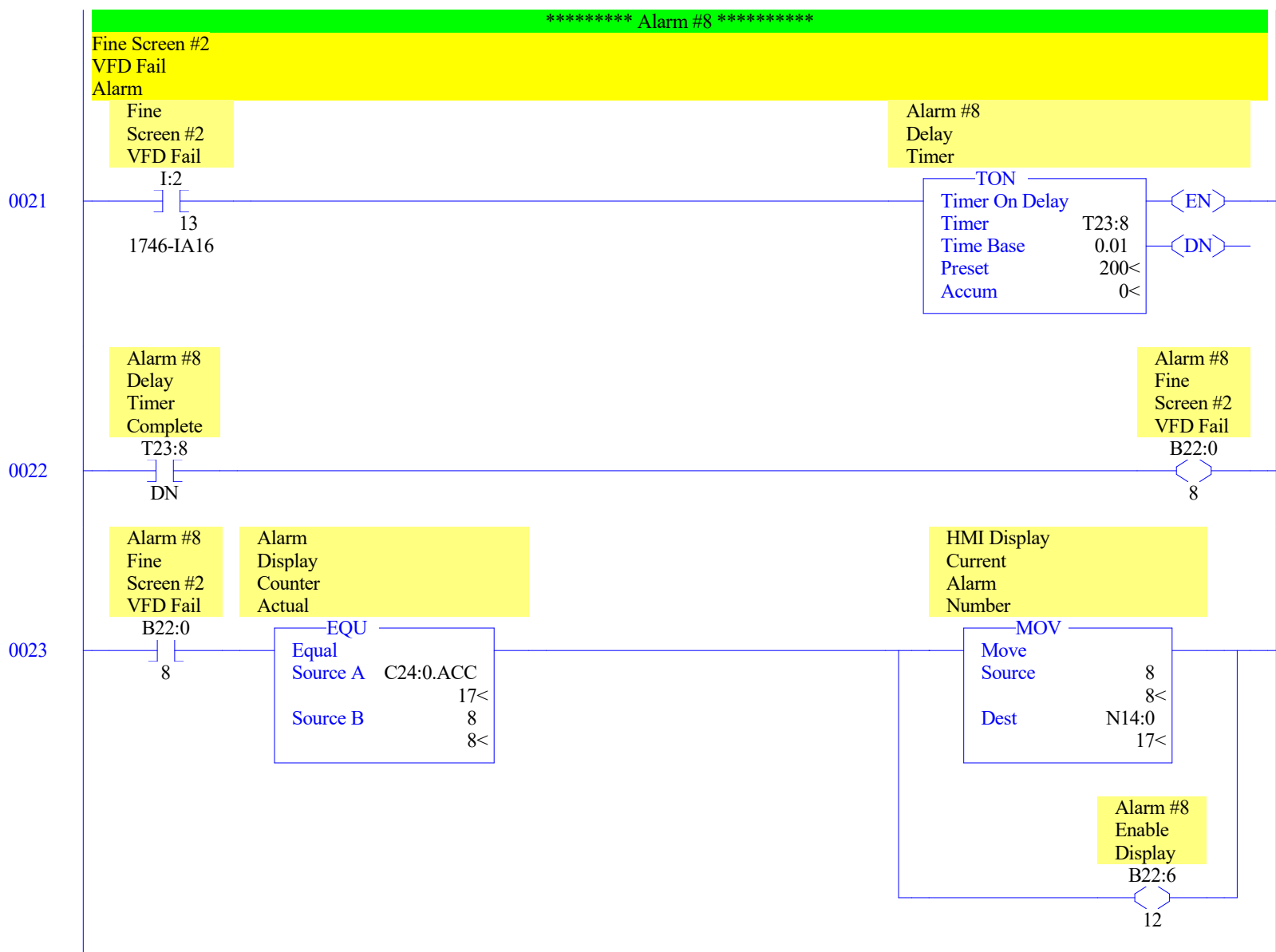




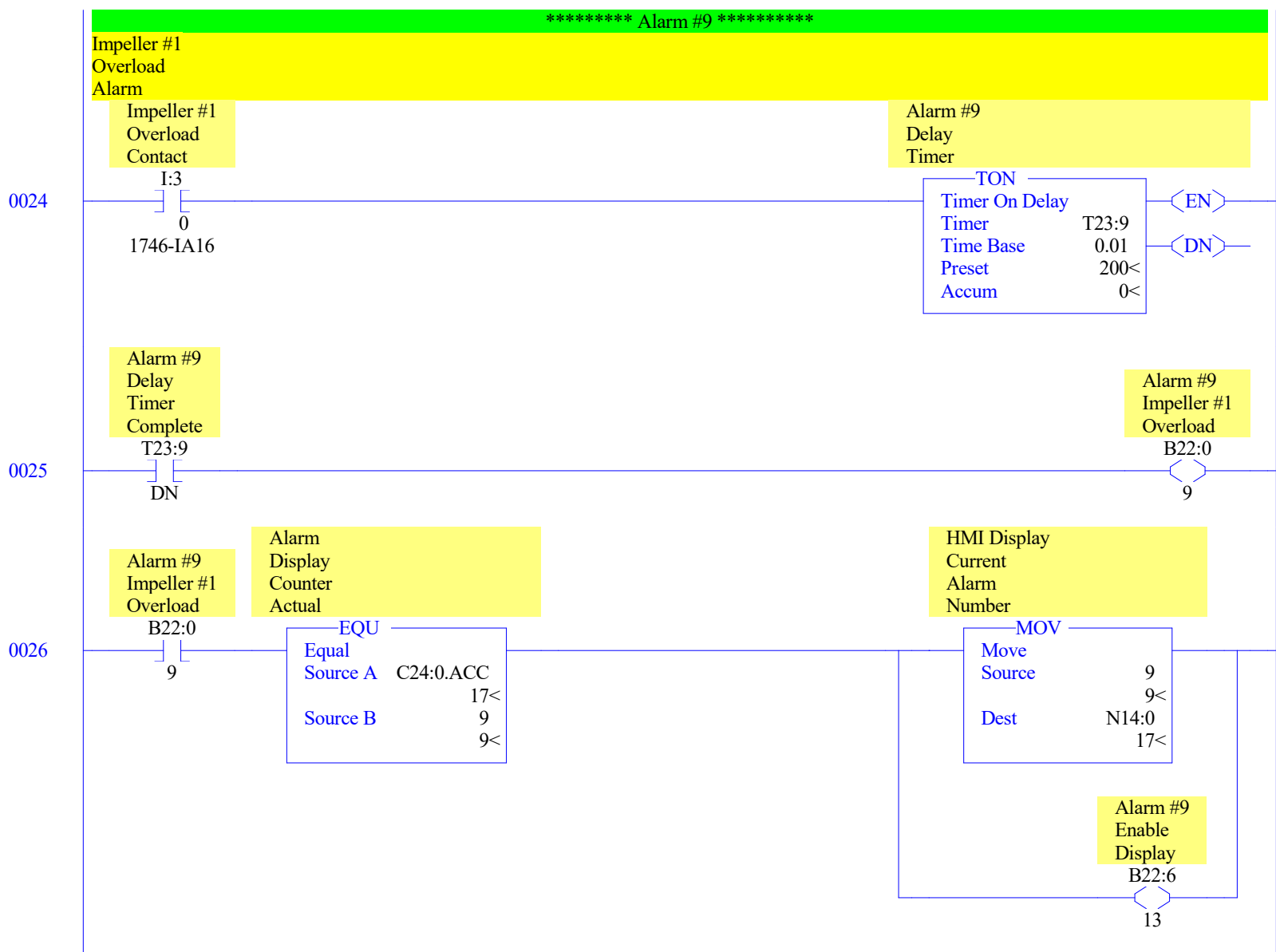


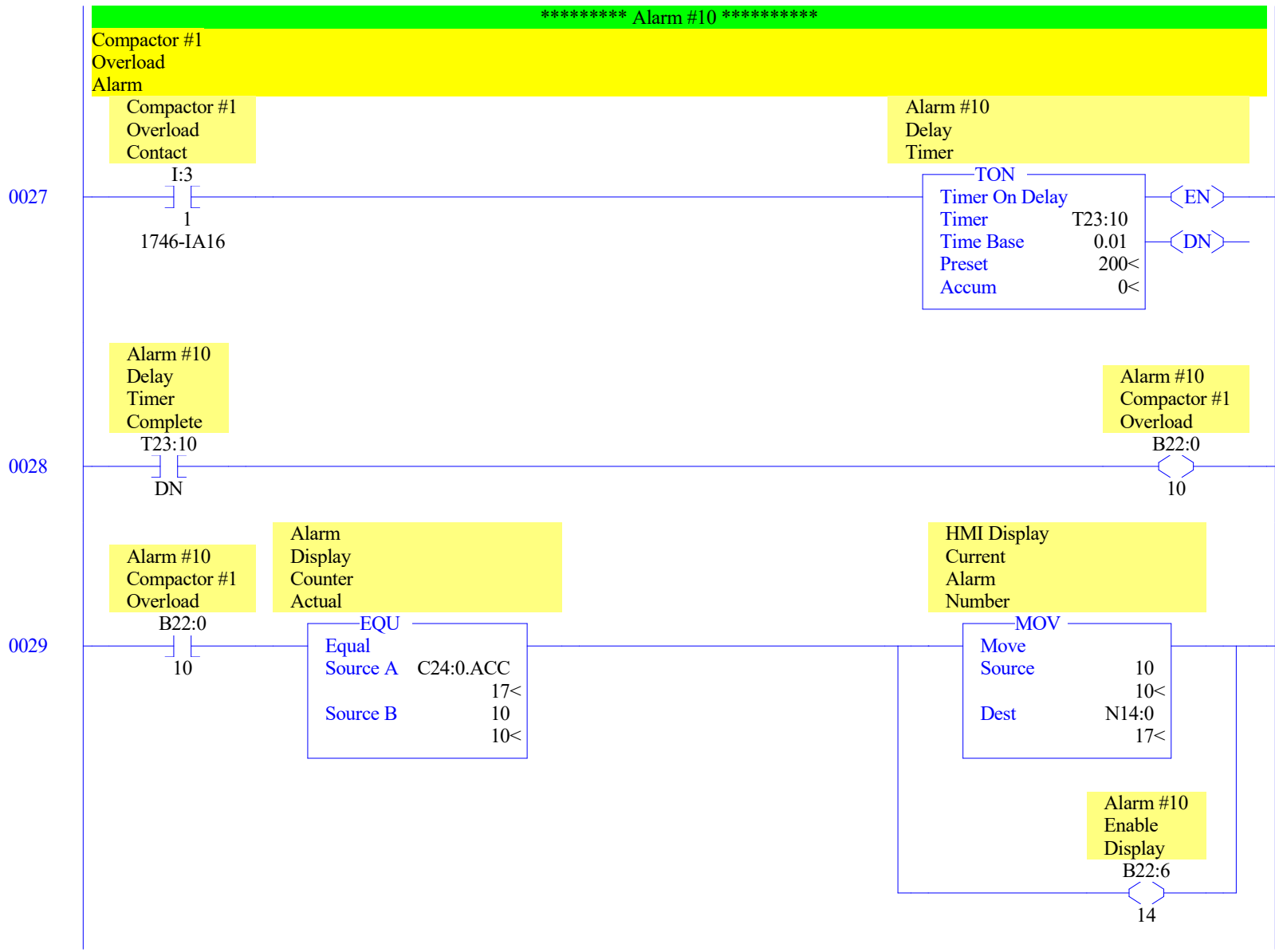


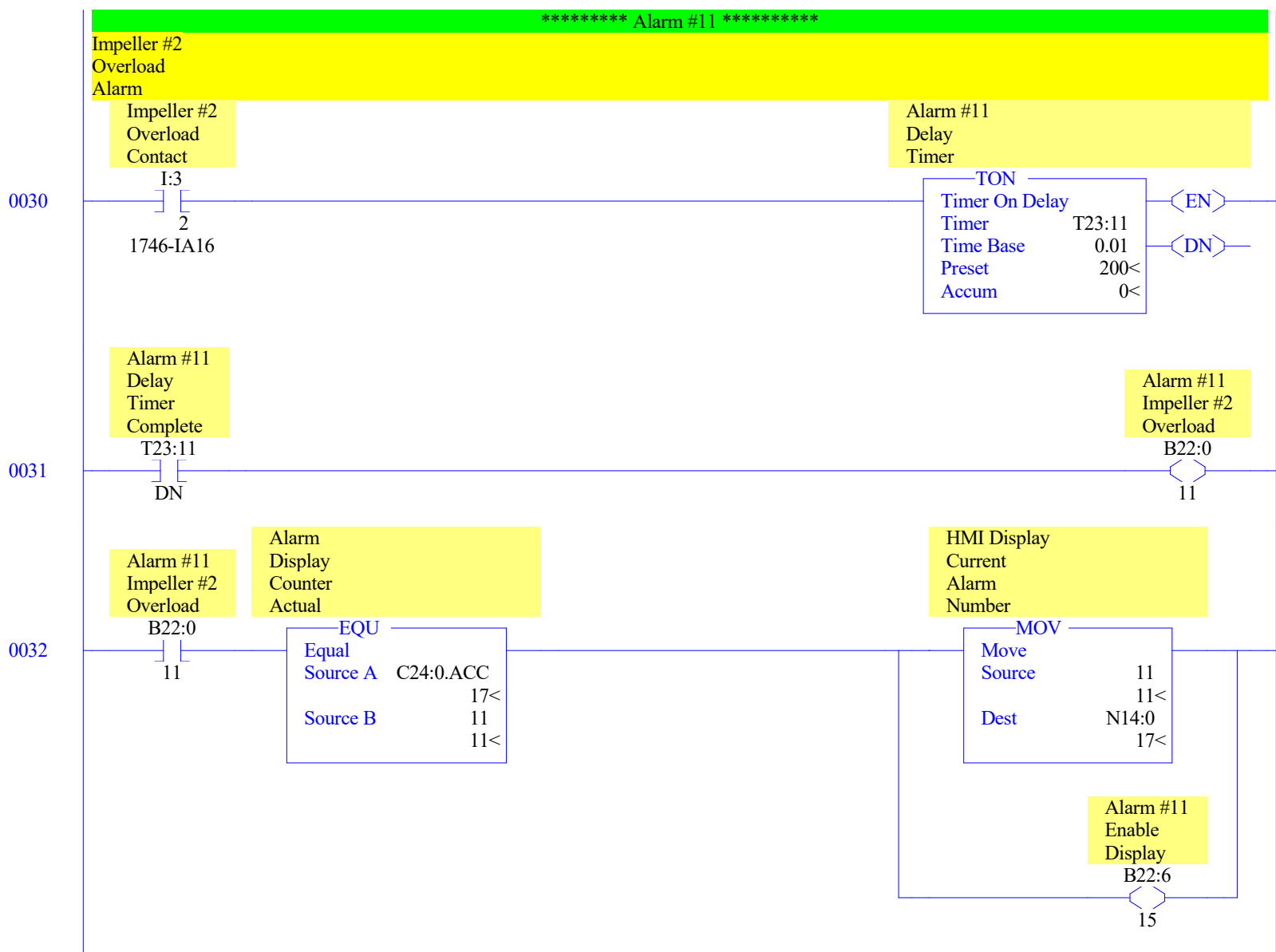


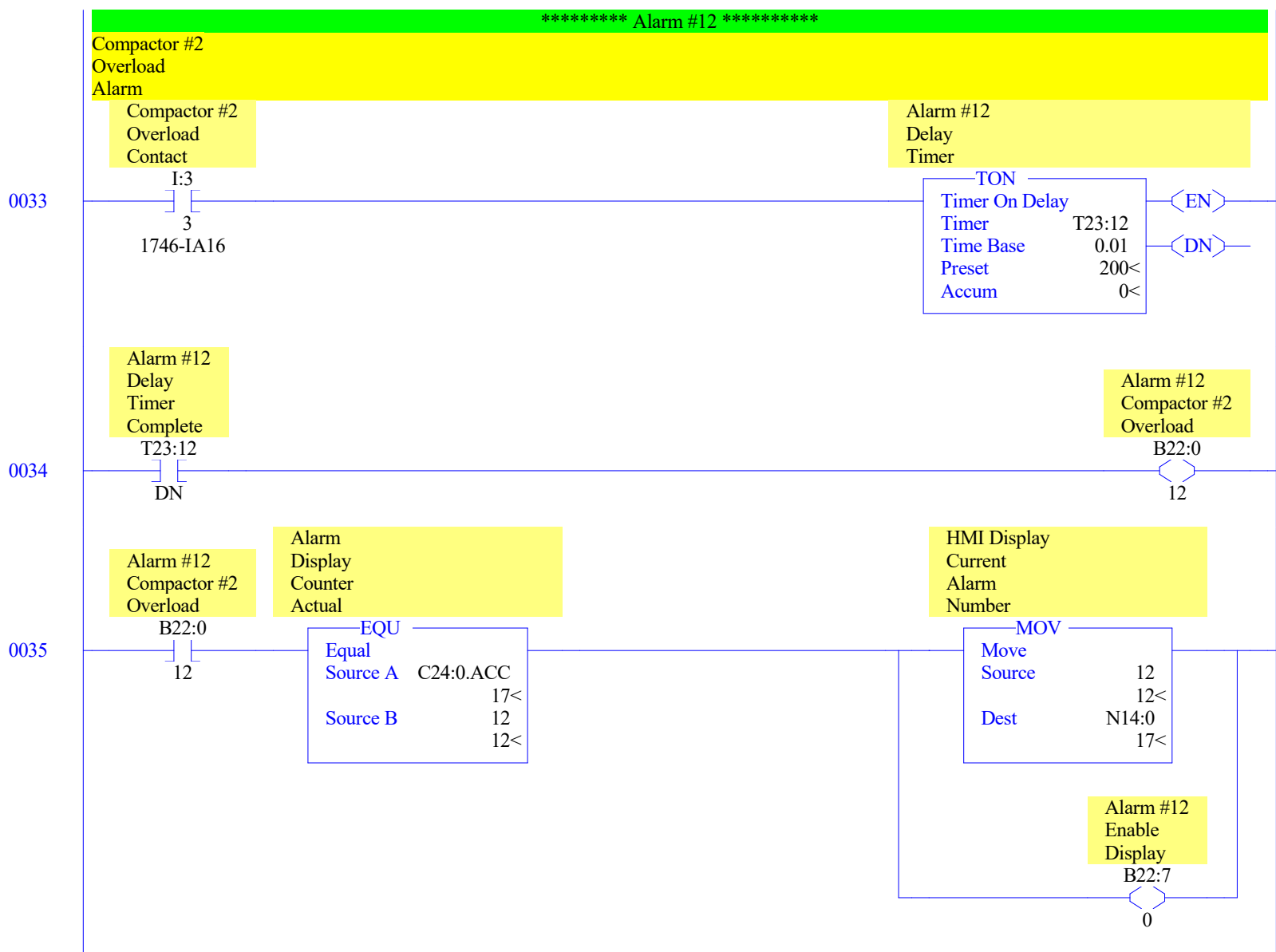


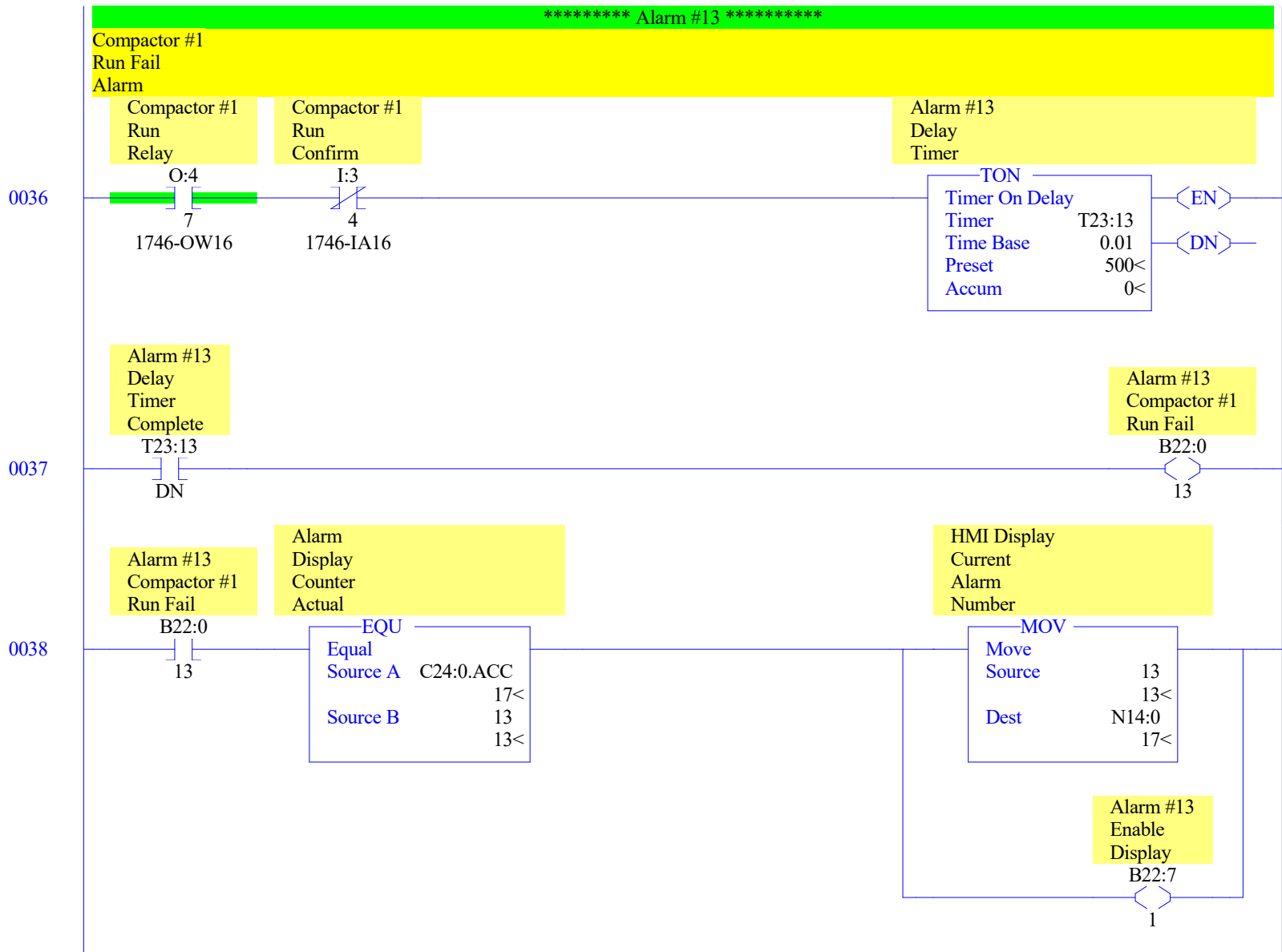


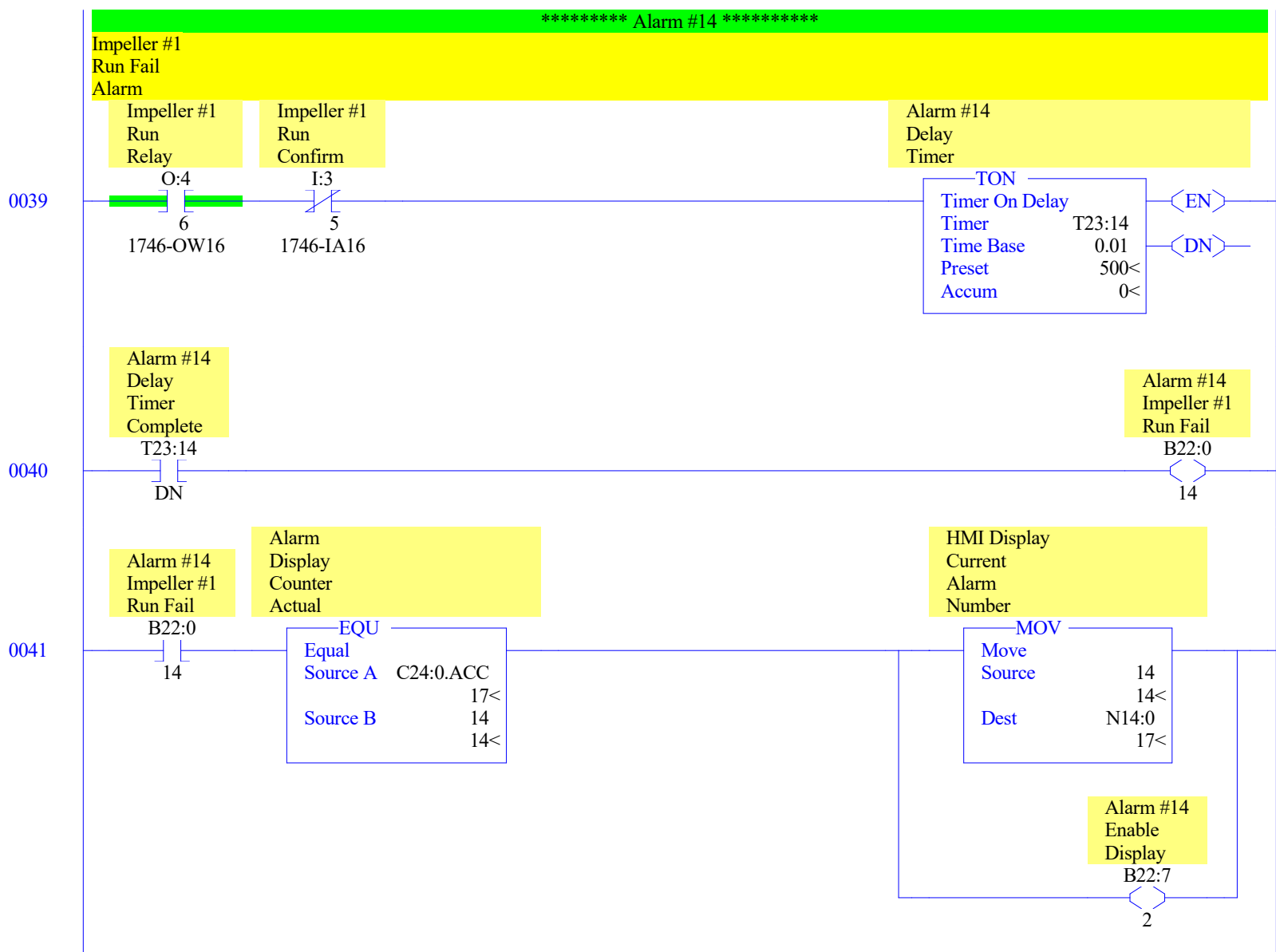


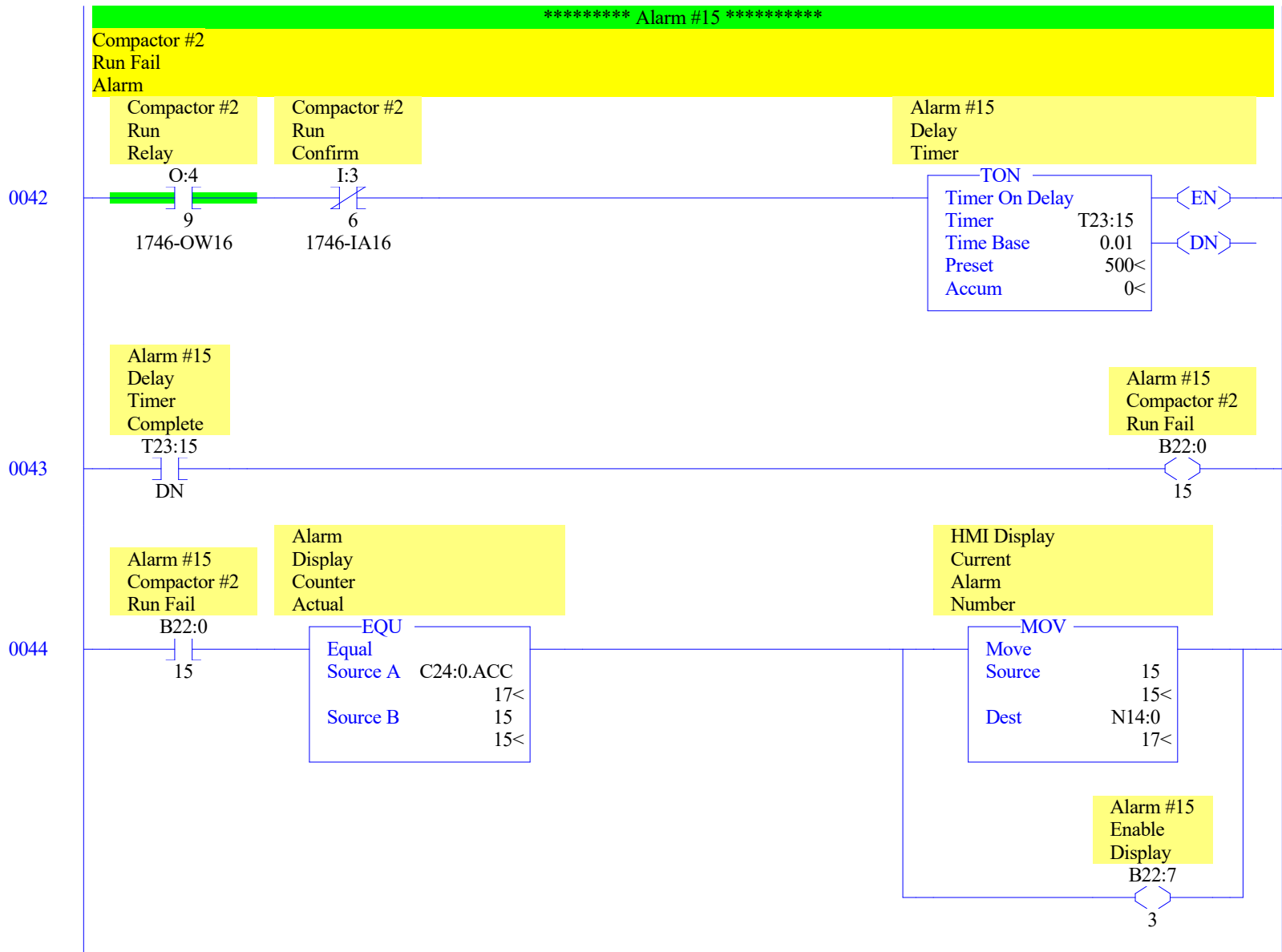


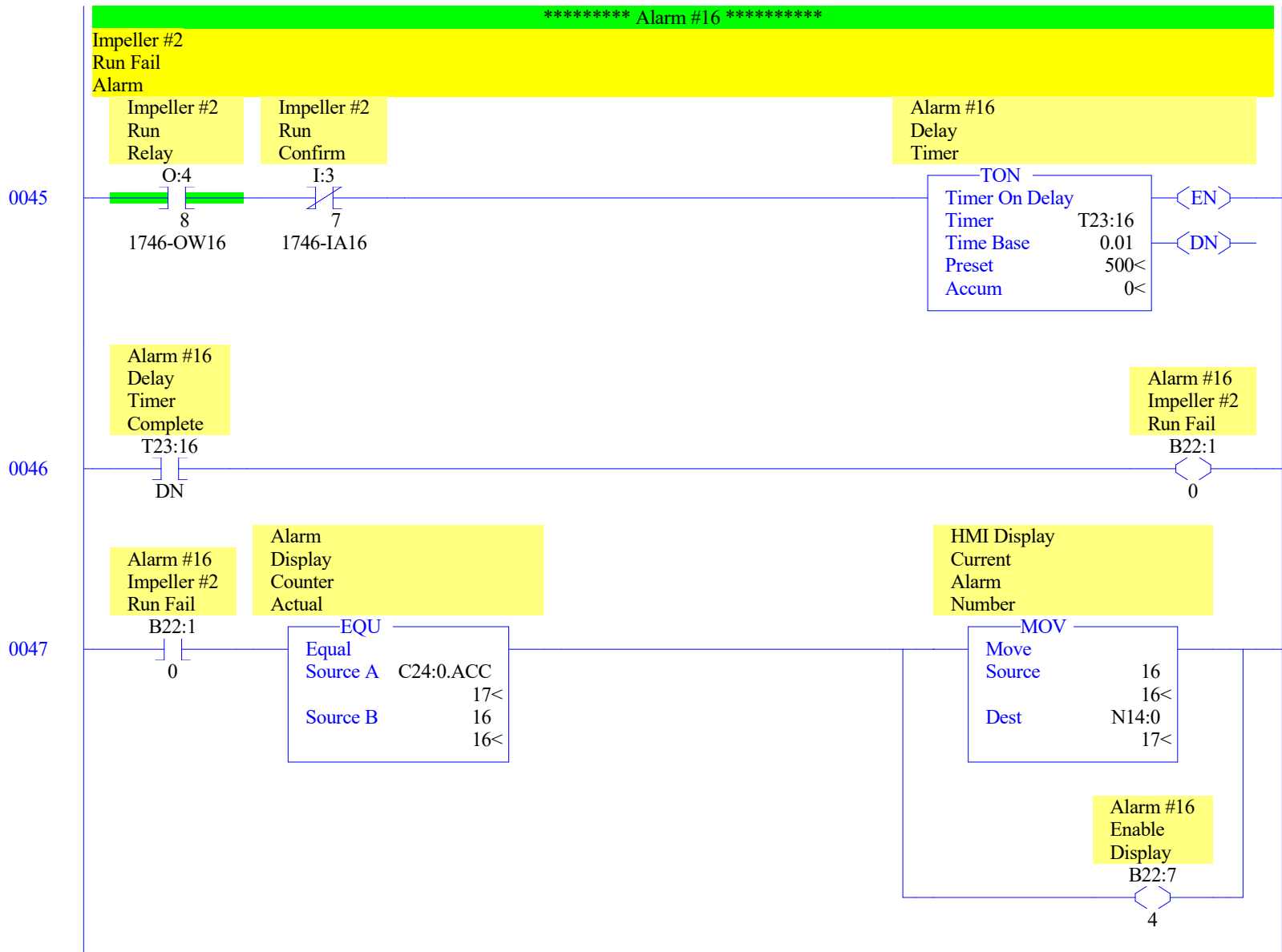




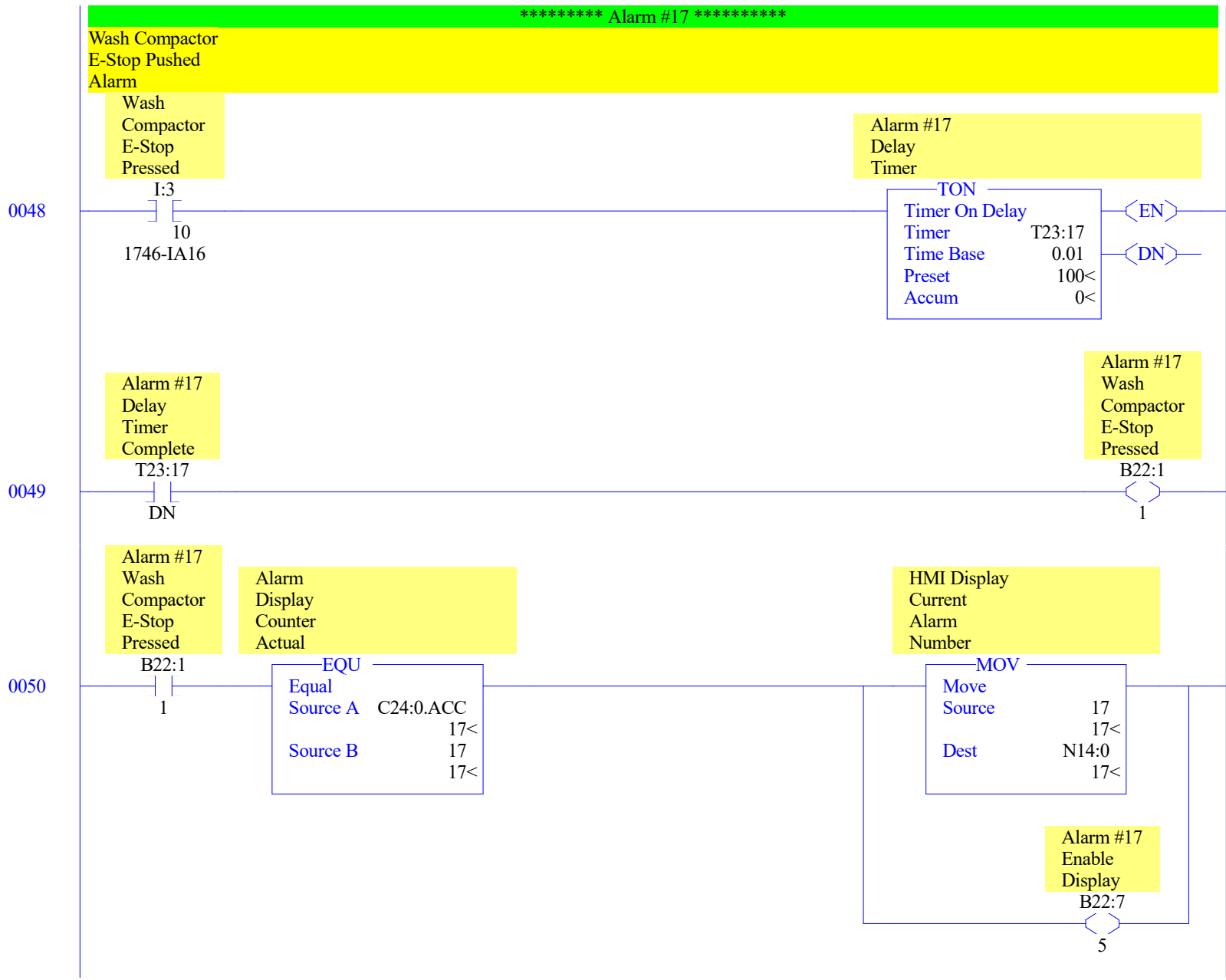


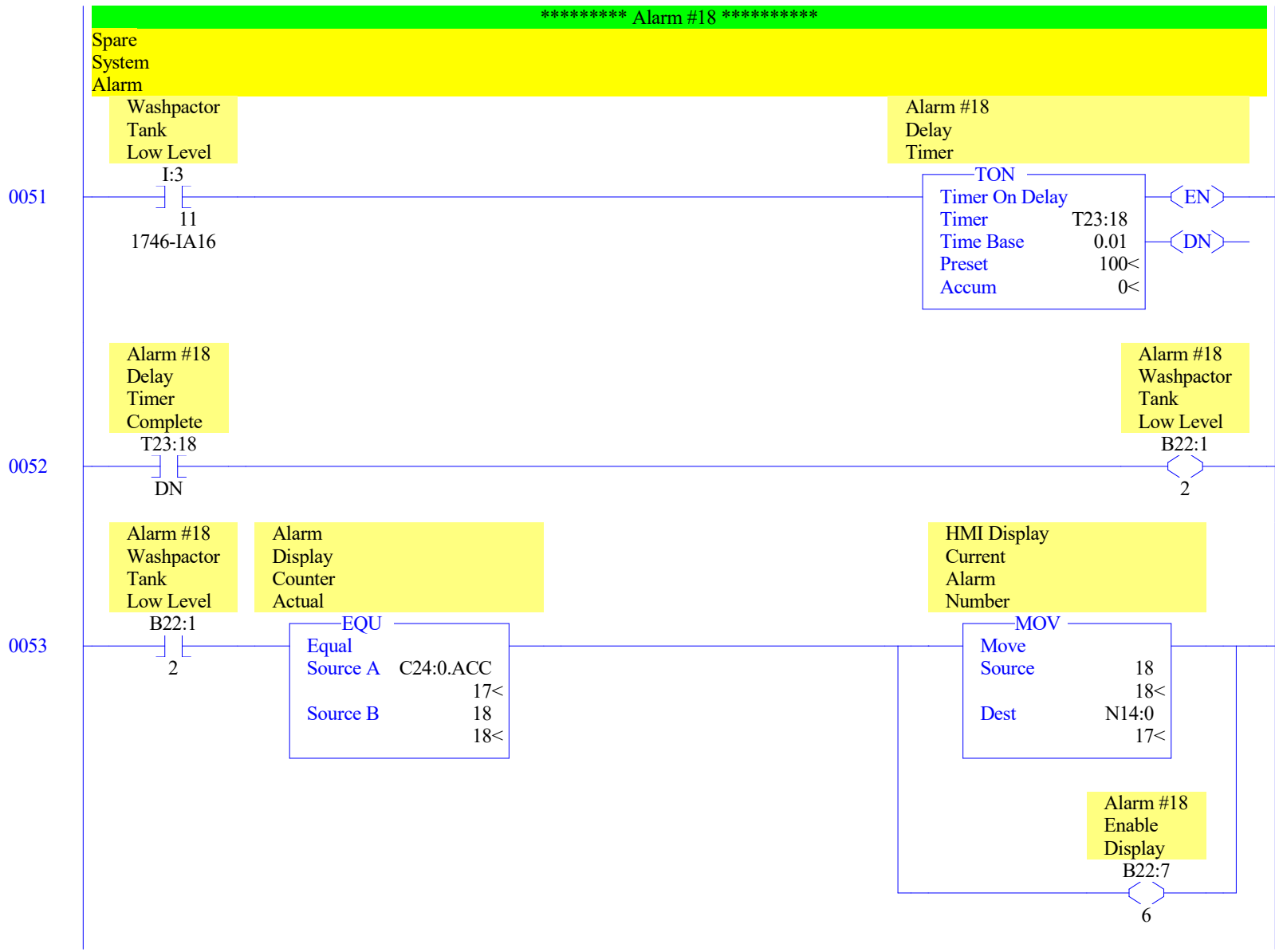


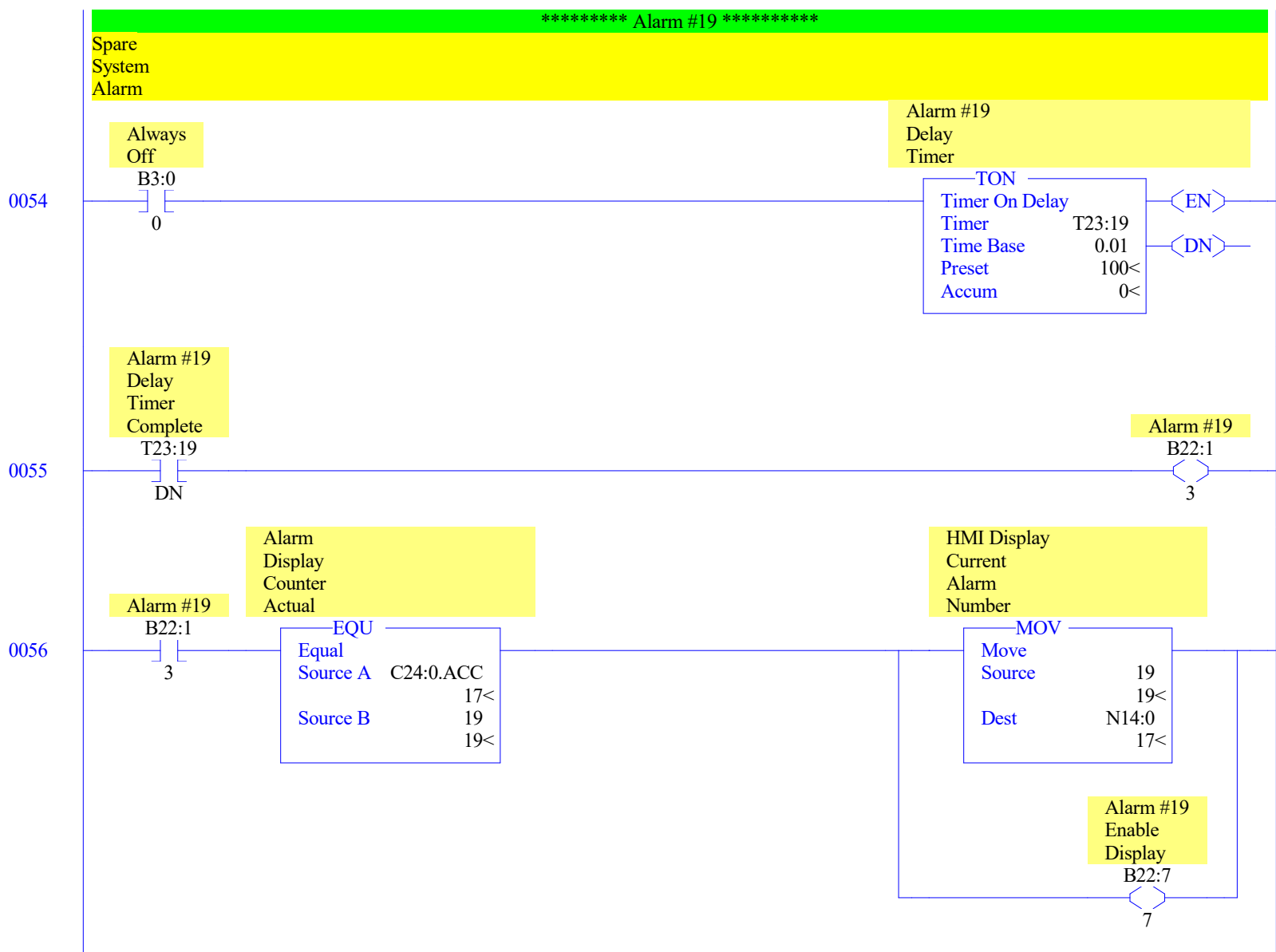


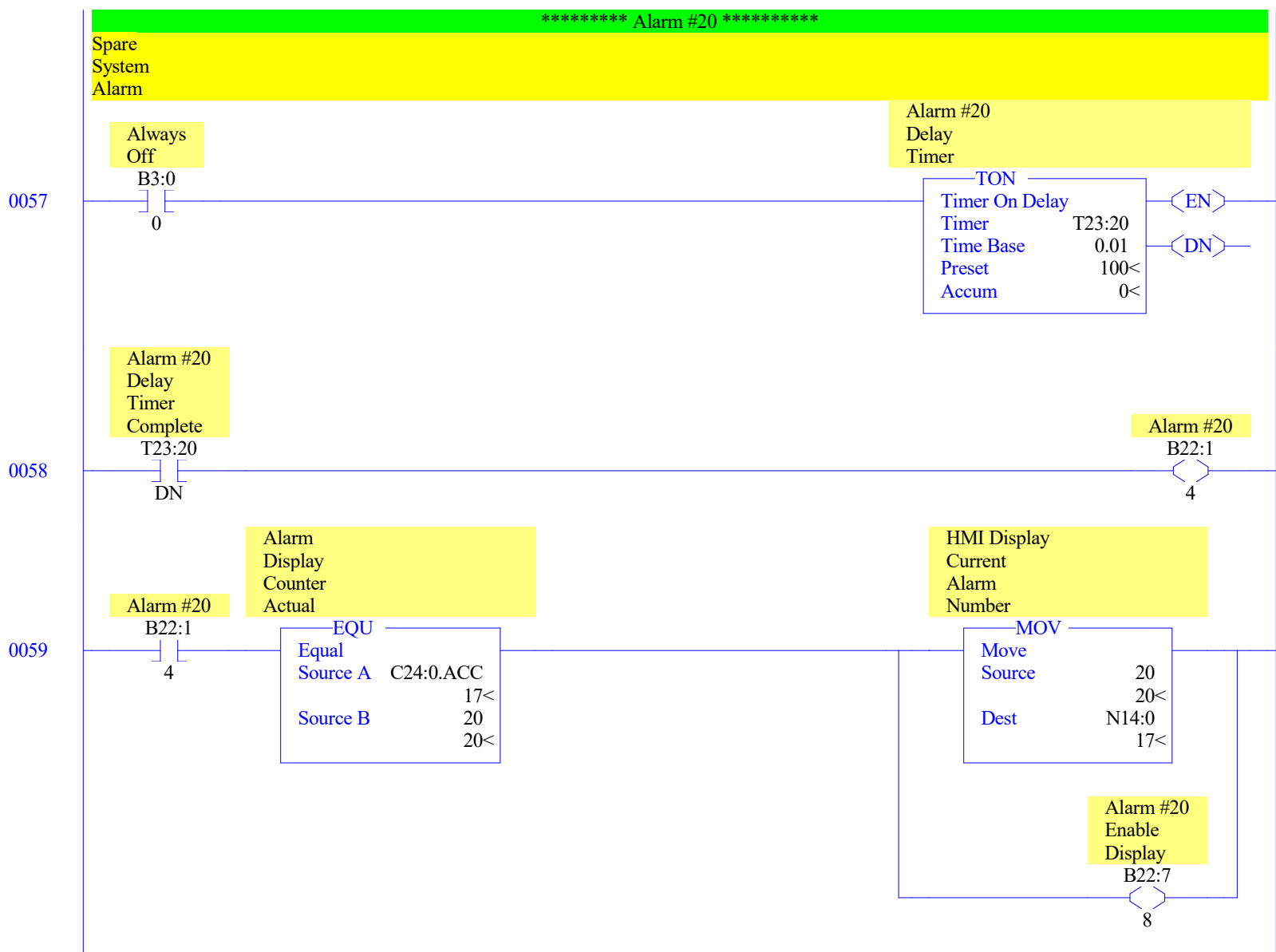


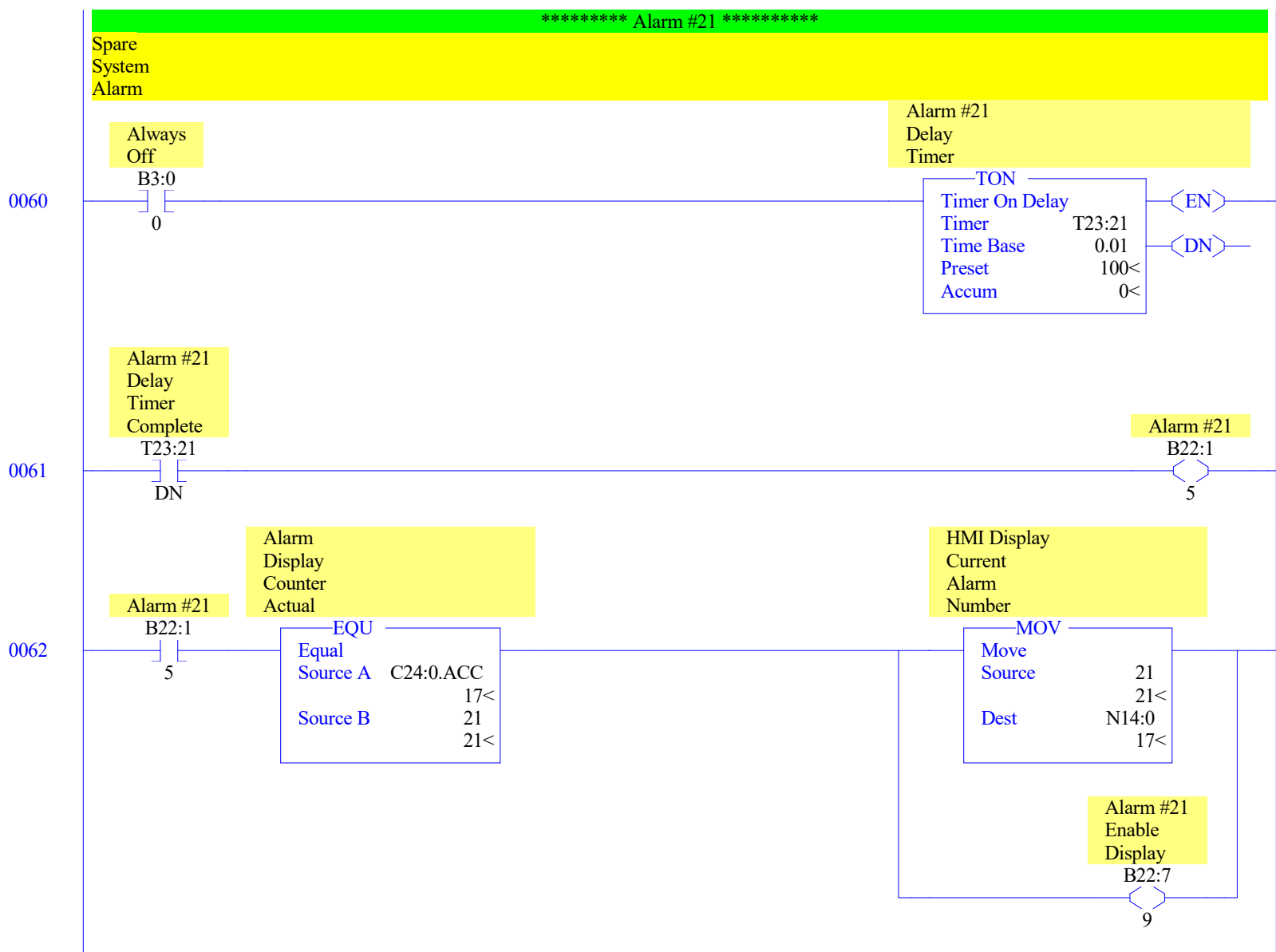


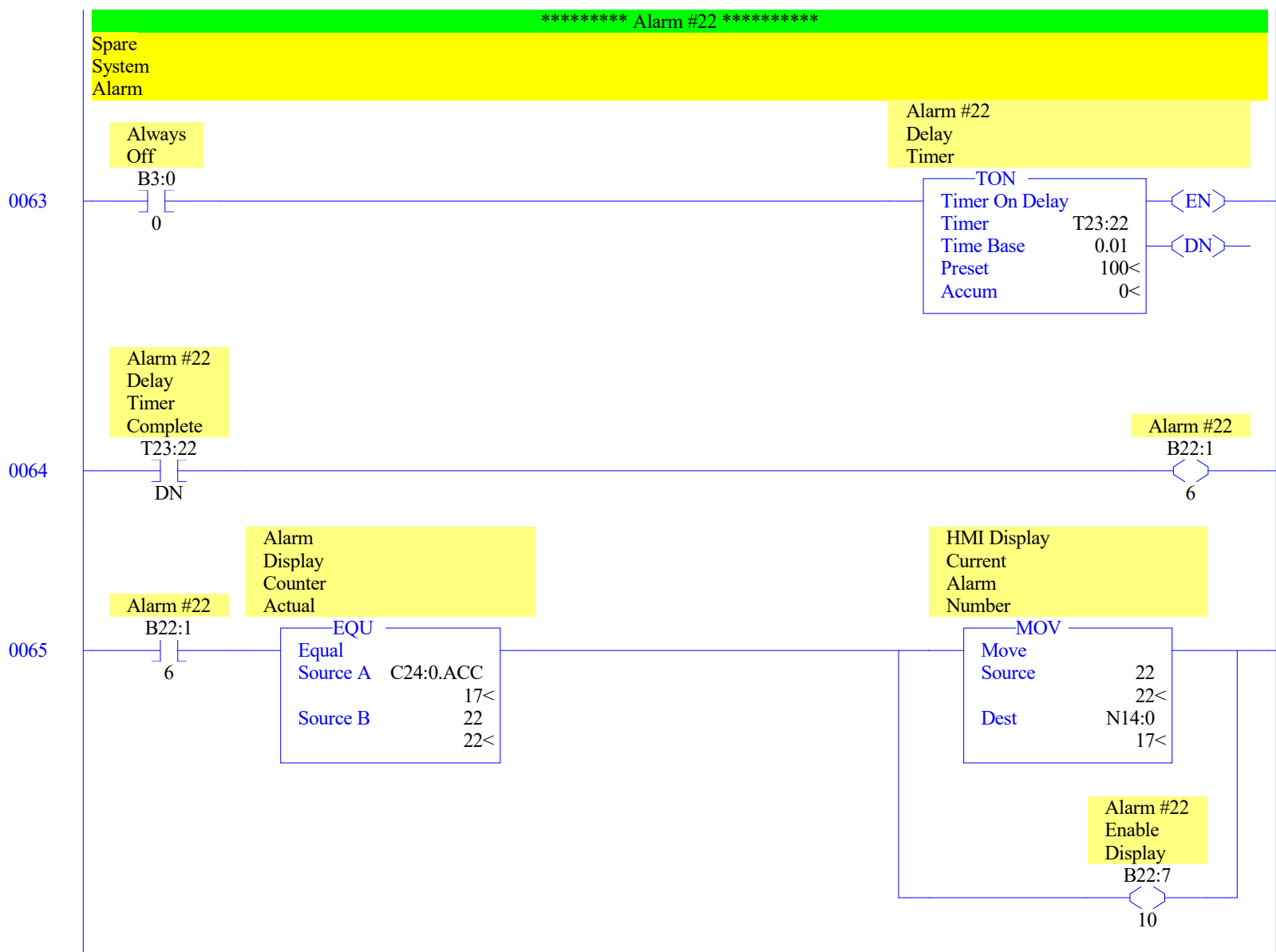


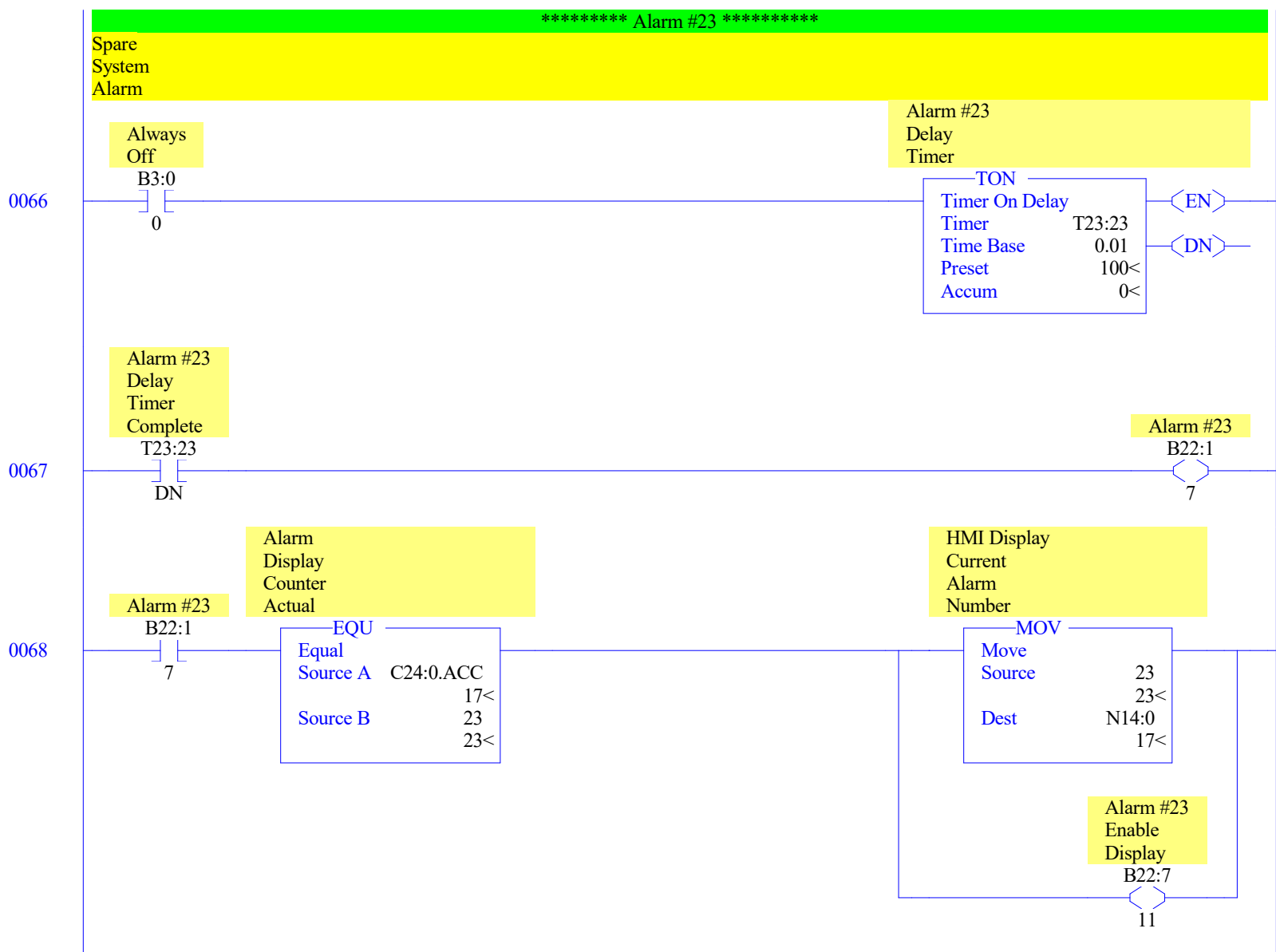


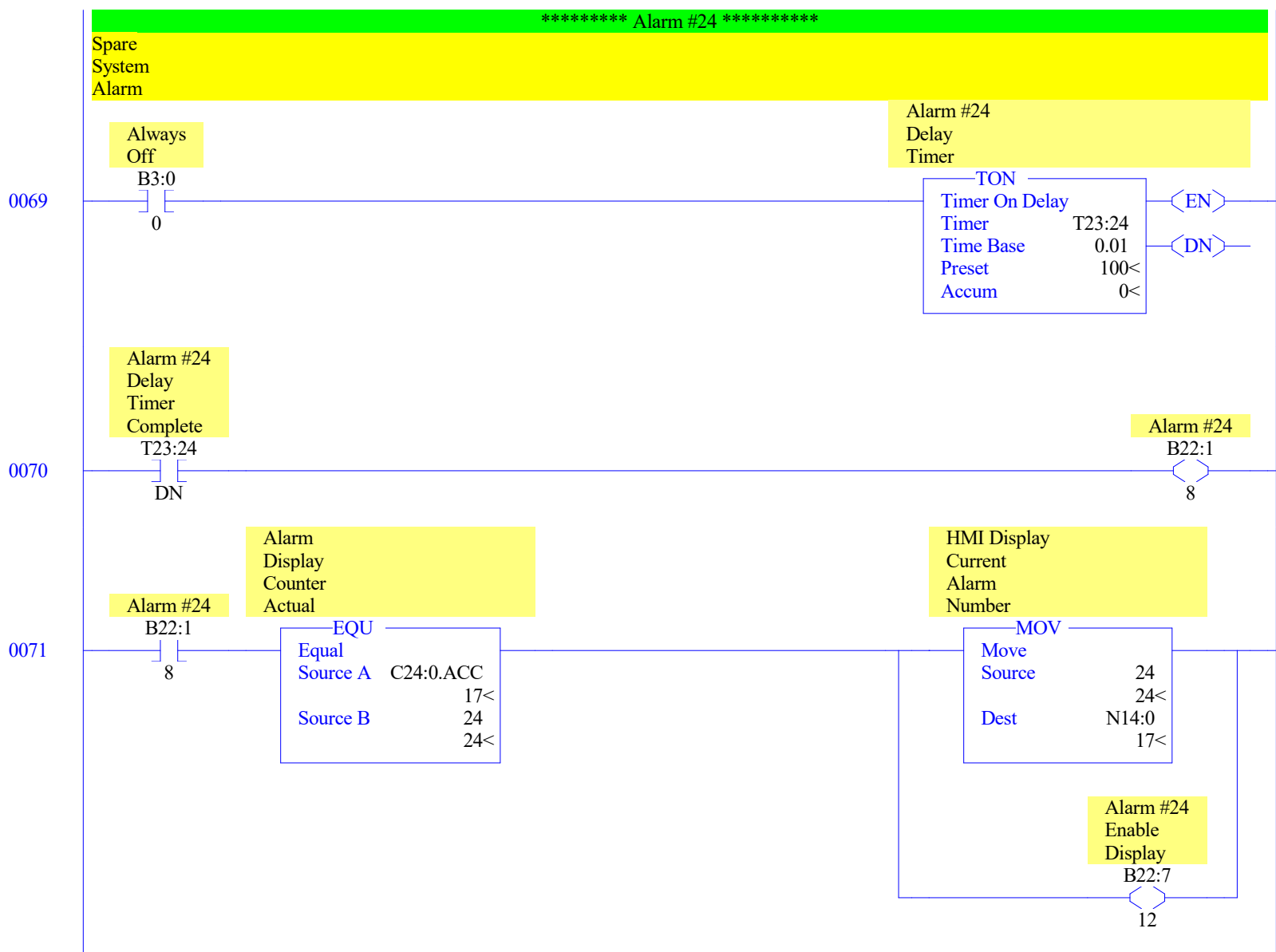




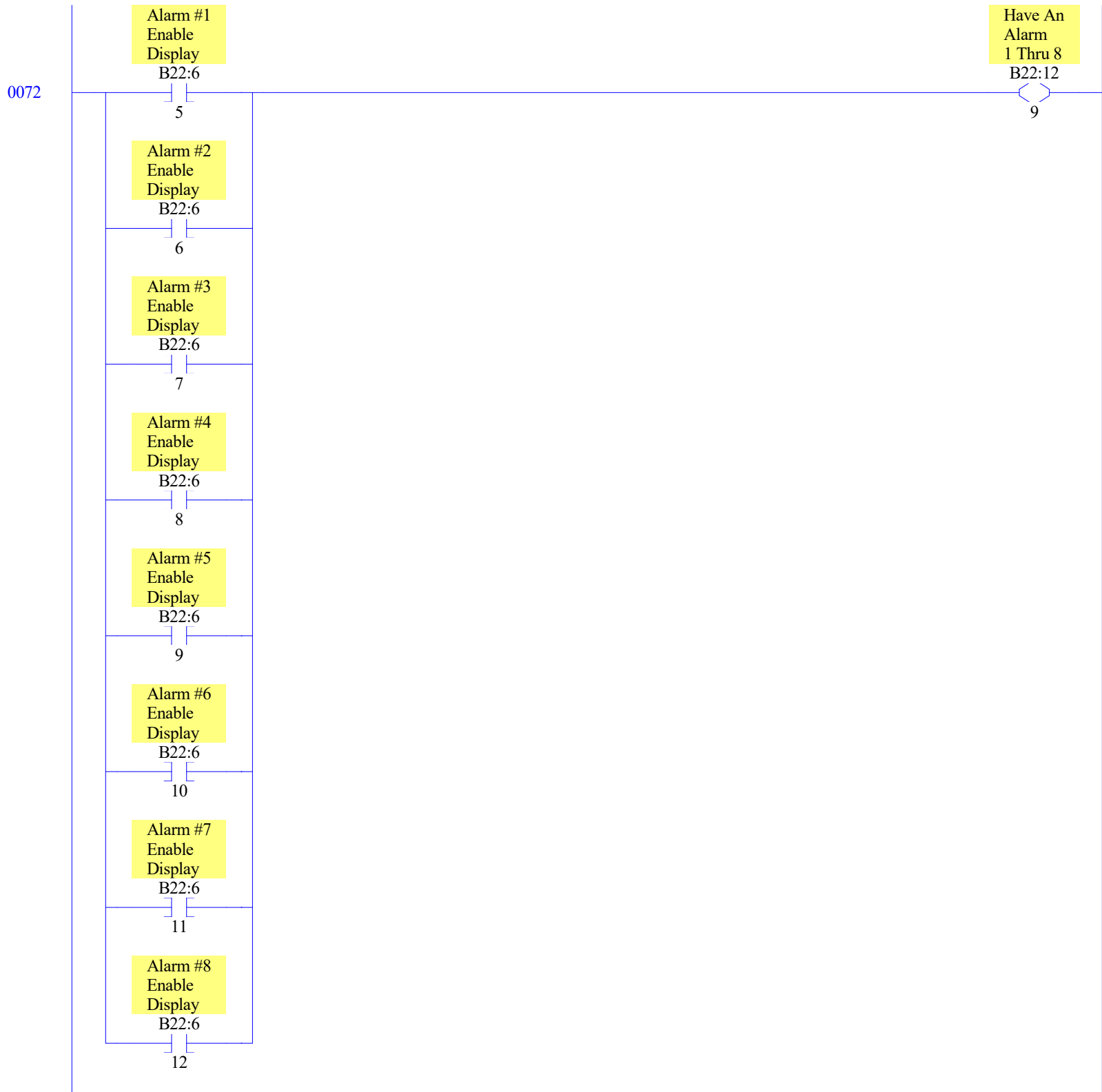




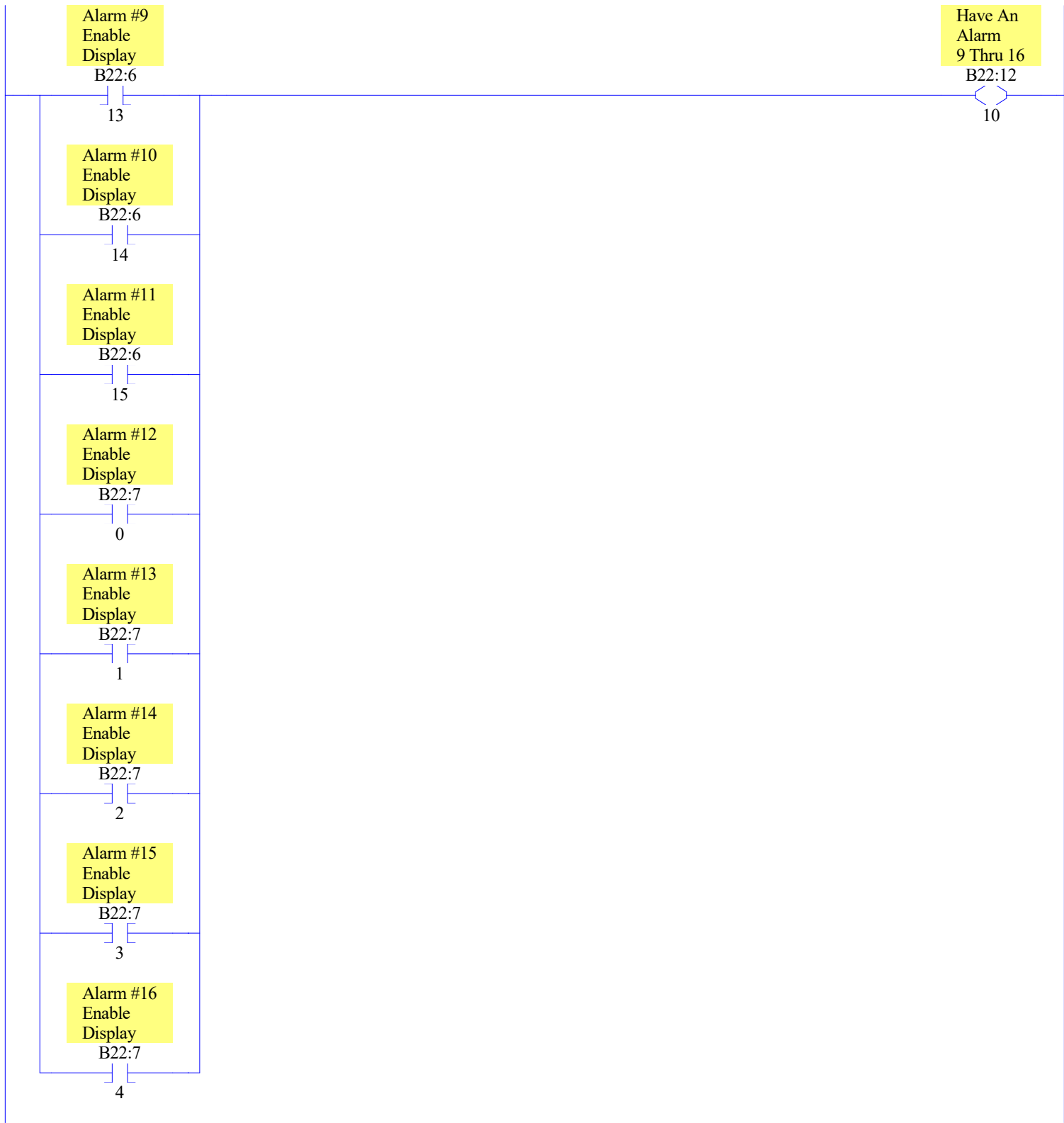




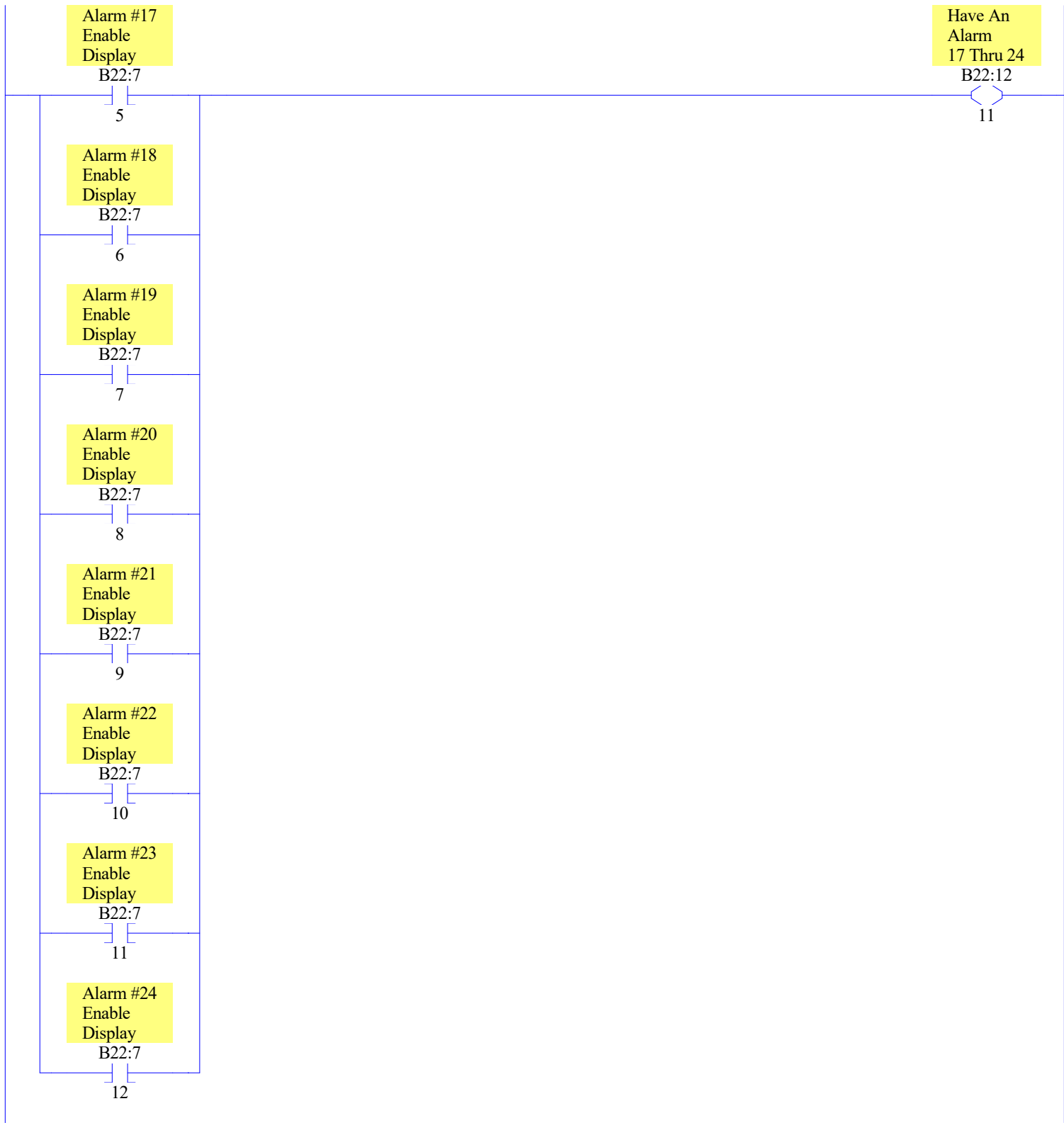


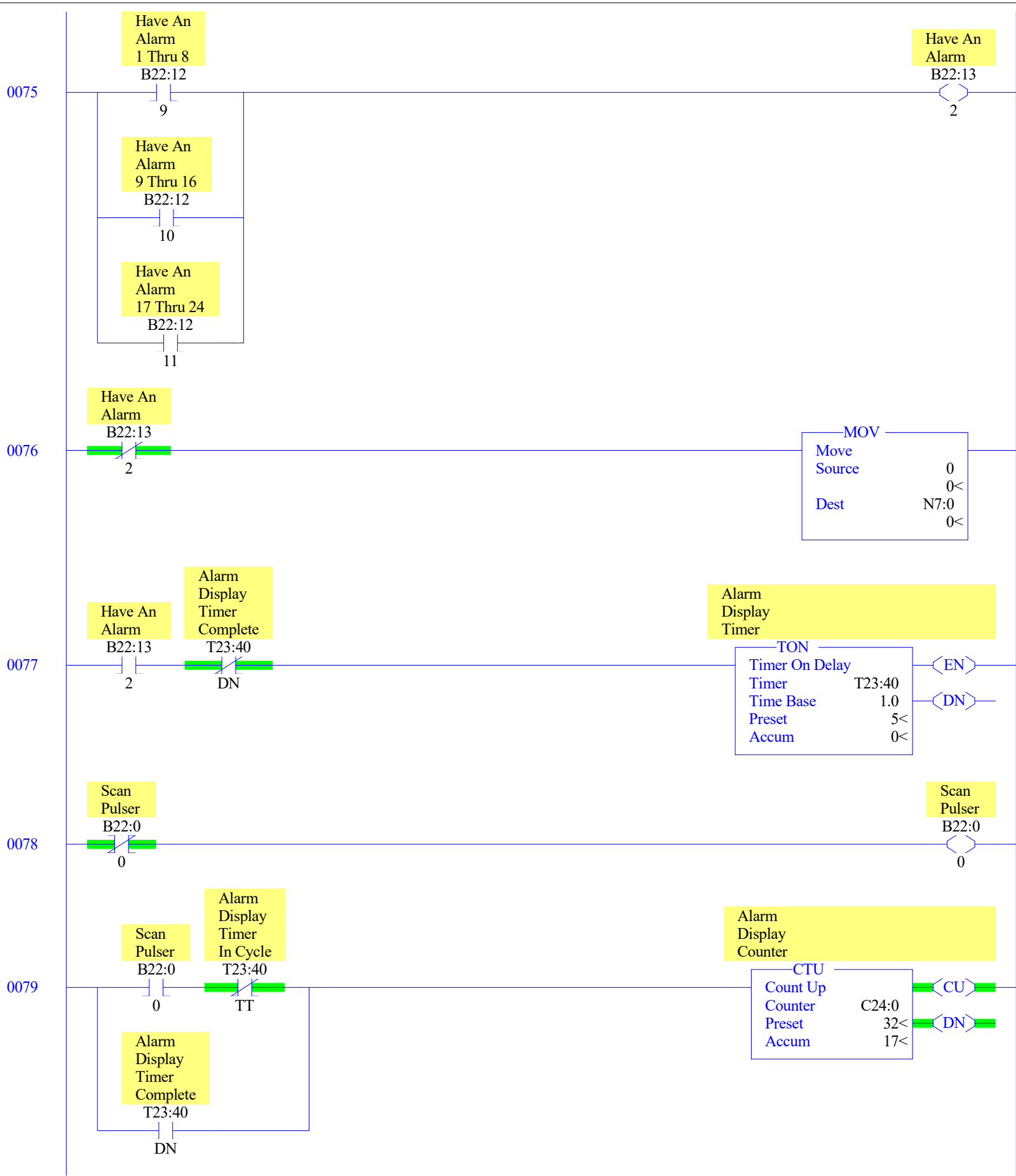


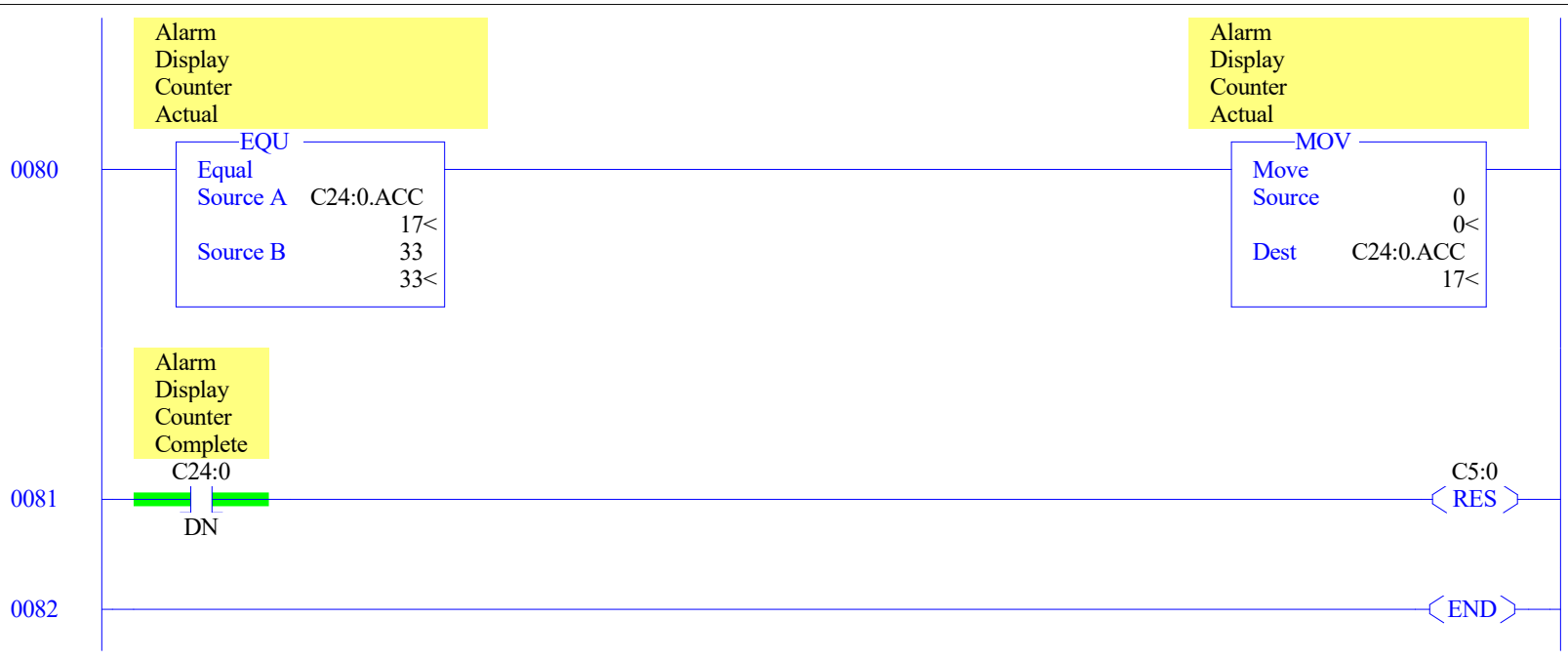
0073

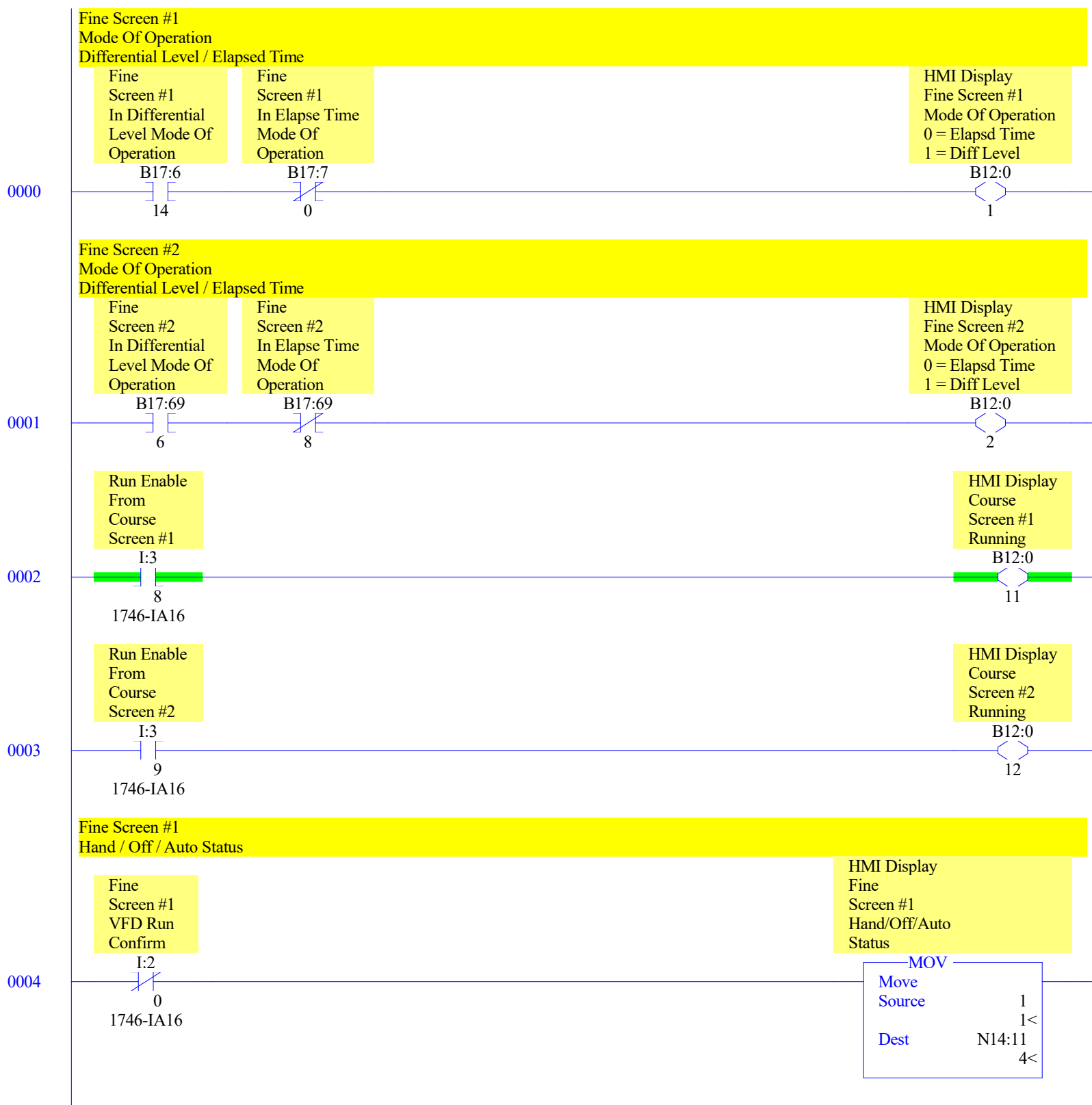


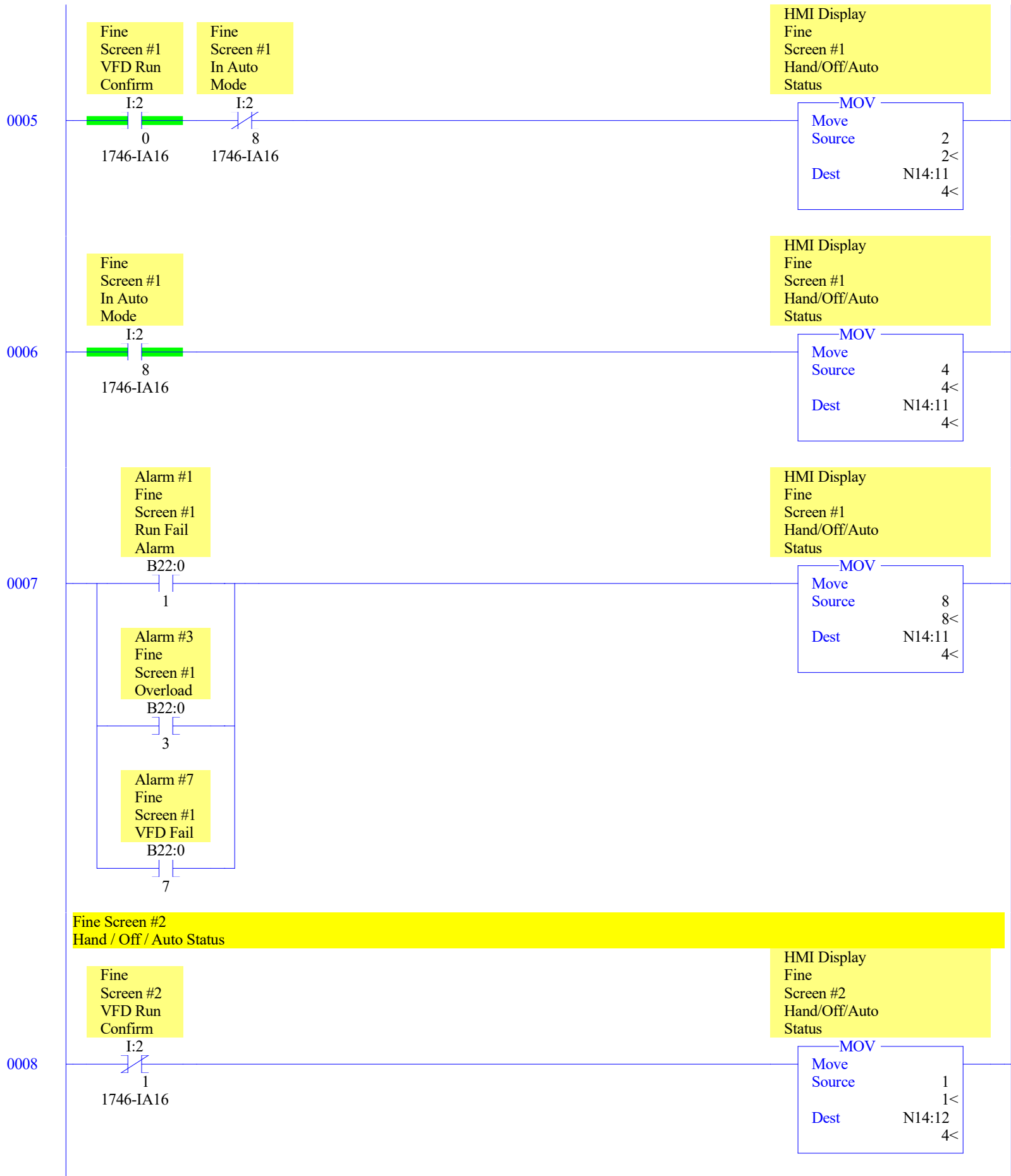
0074

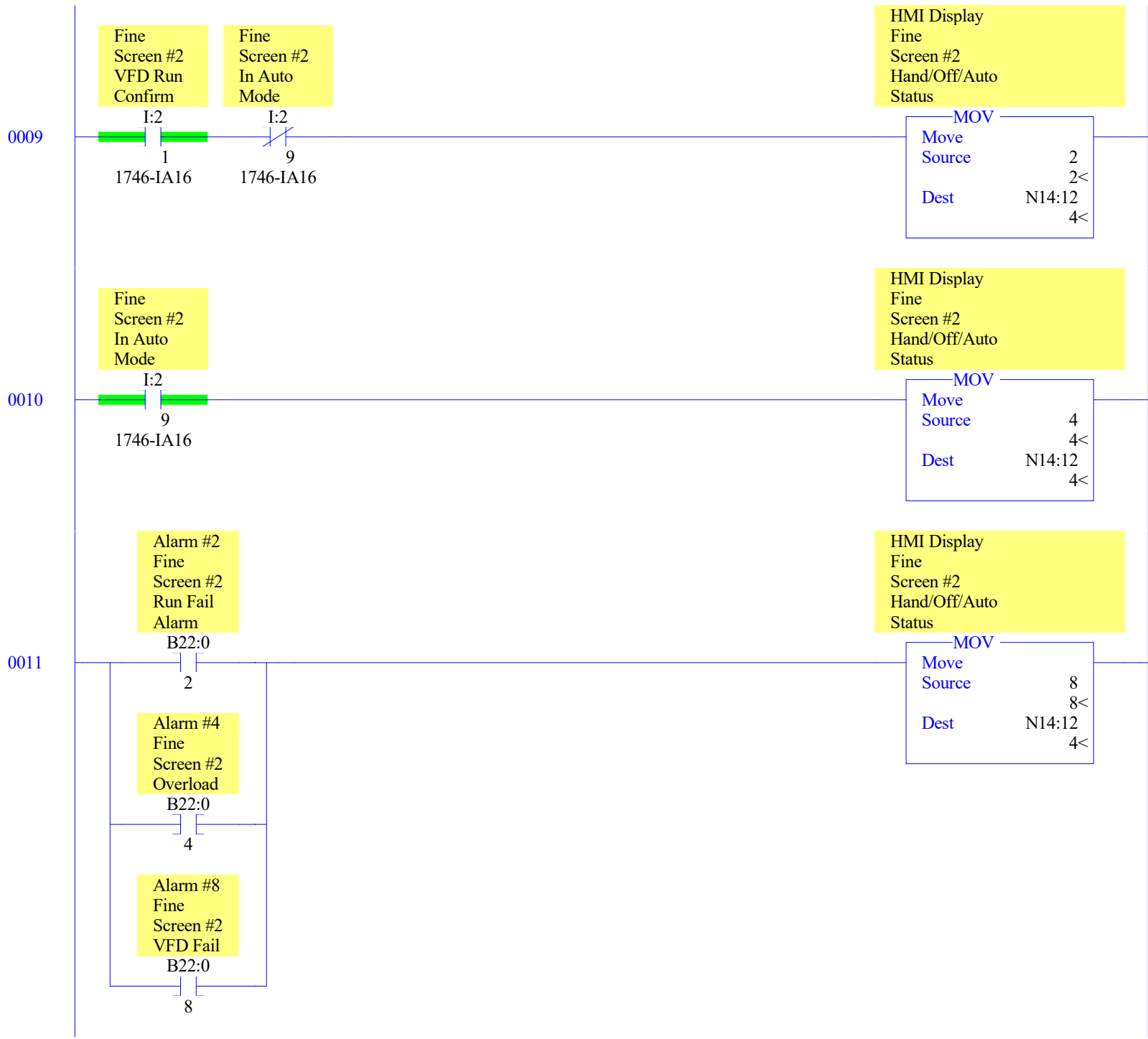














\*\*\*\*\* Display Setpoints \*\*\*\*\*

Fine Screen #1  
 Test Operator Entered  
 Differential Level  
 Setpoints

HMI dISPLAY  
 Fine  
 Screen #1  
 Start  
 Setpoint (Inches)

MOV	
Move	
Source	F15:100 12.5<
Dest	F16:100 12.5<

0012

HMI Display  
 Fine  
 Screen #1  
 Stop  
 Setpoint (Inches)

MOV	
Move	
Source	F15:102 9.5<
Dest	F16:102 9.5<

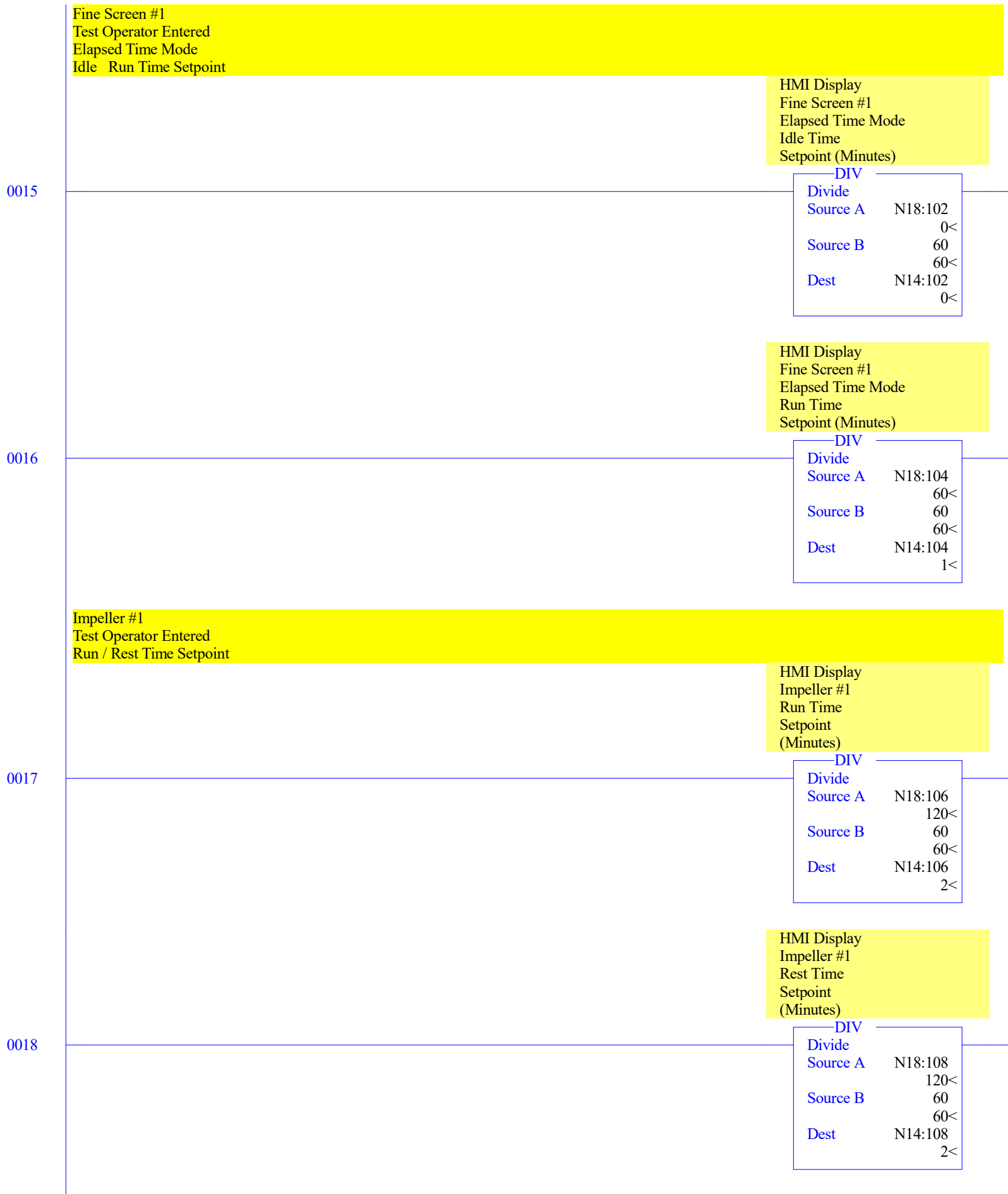
0013

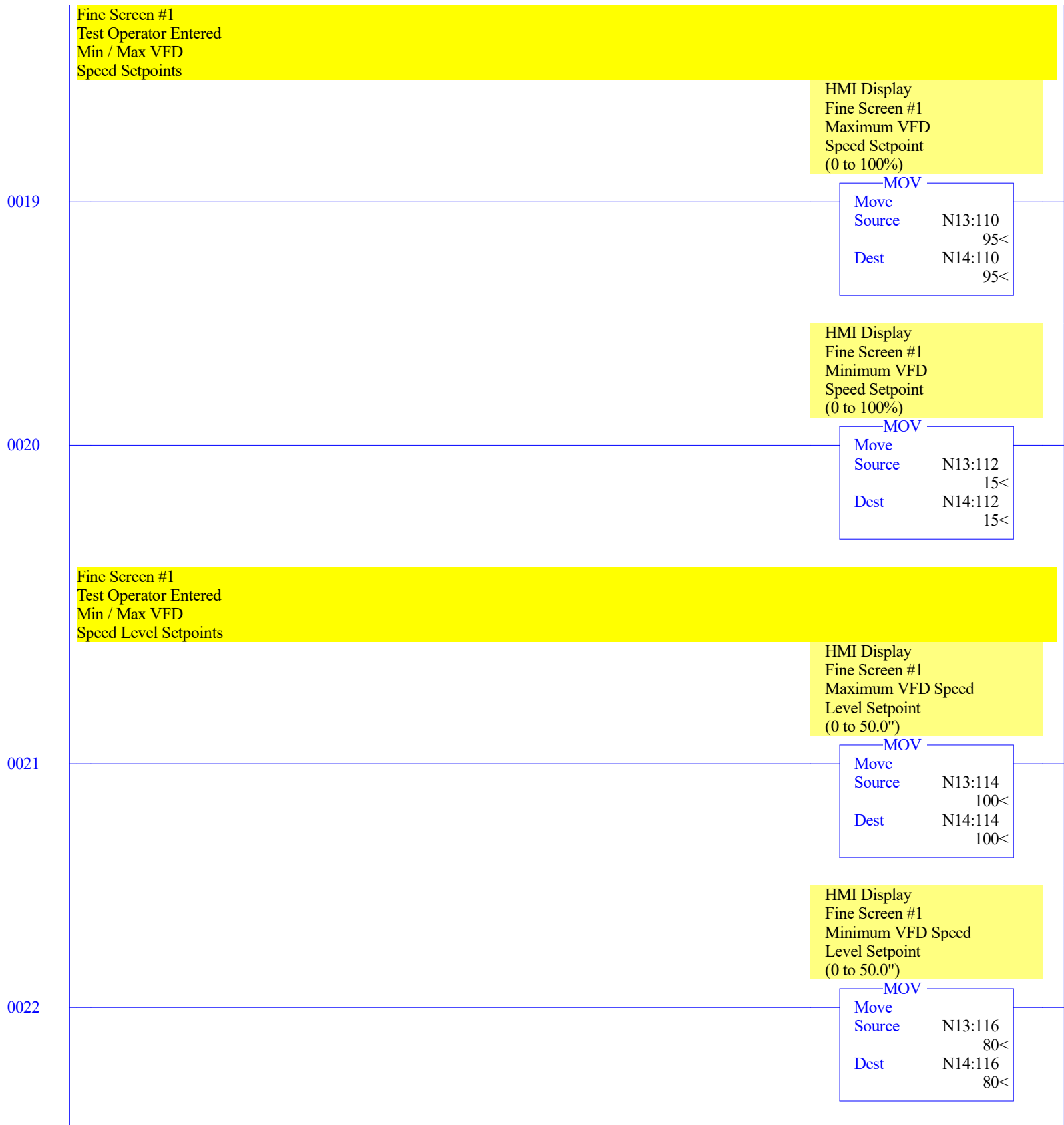
Fine Screen #1  
 Test Operator Entered  
 Differential Level Mode  
 VFD Minimum Run Time  
 Setpoint

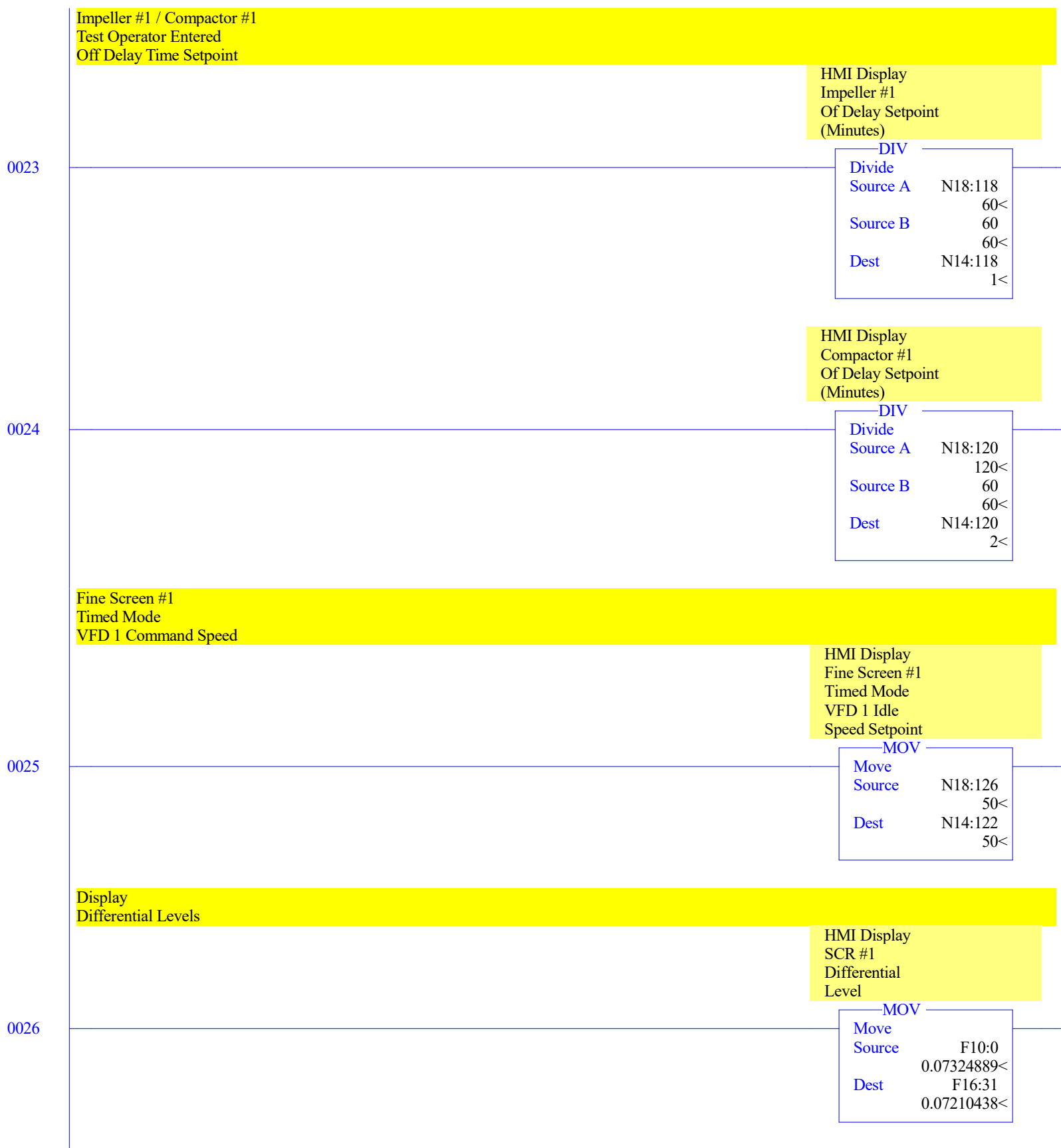
HMI Display  
 Fine Screen #1  
 Differential Level  
 Screen Minimum  
 Run Time (Minutes)

DIV	
Divide	
Source A	N18:100 60<
Source B	60 60<
Dest	N14:100 1<

0014







0027

HMI Display  
SCR #2  
Differential  
Level

MOV  
Move  
Source F10:1  
0.0<  
Dest F16:32  
0.0<

\*\*\*\*\* Display Setpoints \*\*\*\*\*

Fine Screen #2  
 Test Operator Entered  
 Differential Level  
 Setpoints

HMI Display  
 Fine  
 Screen #2  
 Start  
 Setpoint (Inches)

MOV

Move	
Source	F15:200 12.5<
Dest	F16:200 12.5<

HMI Display  
 Fine  
 Screen #2  
 Stop  
 Setpoint (Inches)

MOV

Move	
Source	F15:202 9.5<
Dest	F16:202 9.5<

Fine Screen #2  
 Test Operator Entered  
 Differential Level Mode  
 VFD Minimum Run Time  
 Setpoint

HMI dISPLAY  
 Fine Screen #2  
 Differential Level  
 Screen Minimum  
 Run Time (Minutes)

DIV

Divide	
Source A	N18:200 60<
Source B	60 60<
Dest	N14:200 1<

0028

0029

0030

Fine Screen #2  
 Test Operator Entered  
 Elapsed Time Mode  
 Idle Run Time Setpoint

HMI Display  
 Fine Screen #2  
 Elapsed Time Mode  
 Idle Time  
 Setpoint (Minutes)

DIV  
 Divide  
 Source A N18:202  
 60<  
 Source B 60  
 60<  
 Dest N14:202  
 1<

0031

HMI Display  
 Fine Screen #2  
 Elapsed Time Mode  
 Run Time  
 Setpoint (Minutes)

DIV  
 Divide  
 Source A N18:204  
 60<  
 Source B 60  
 60<  
 Dest N14:204  
 1<

0032

Impeller #2  
 Test Operator Entered  
 Run / Rest Time Setpoint

HMI Display  
 Impeller #2  
 Run Time  
 Setpoint  
 (Minutes)

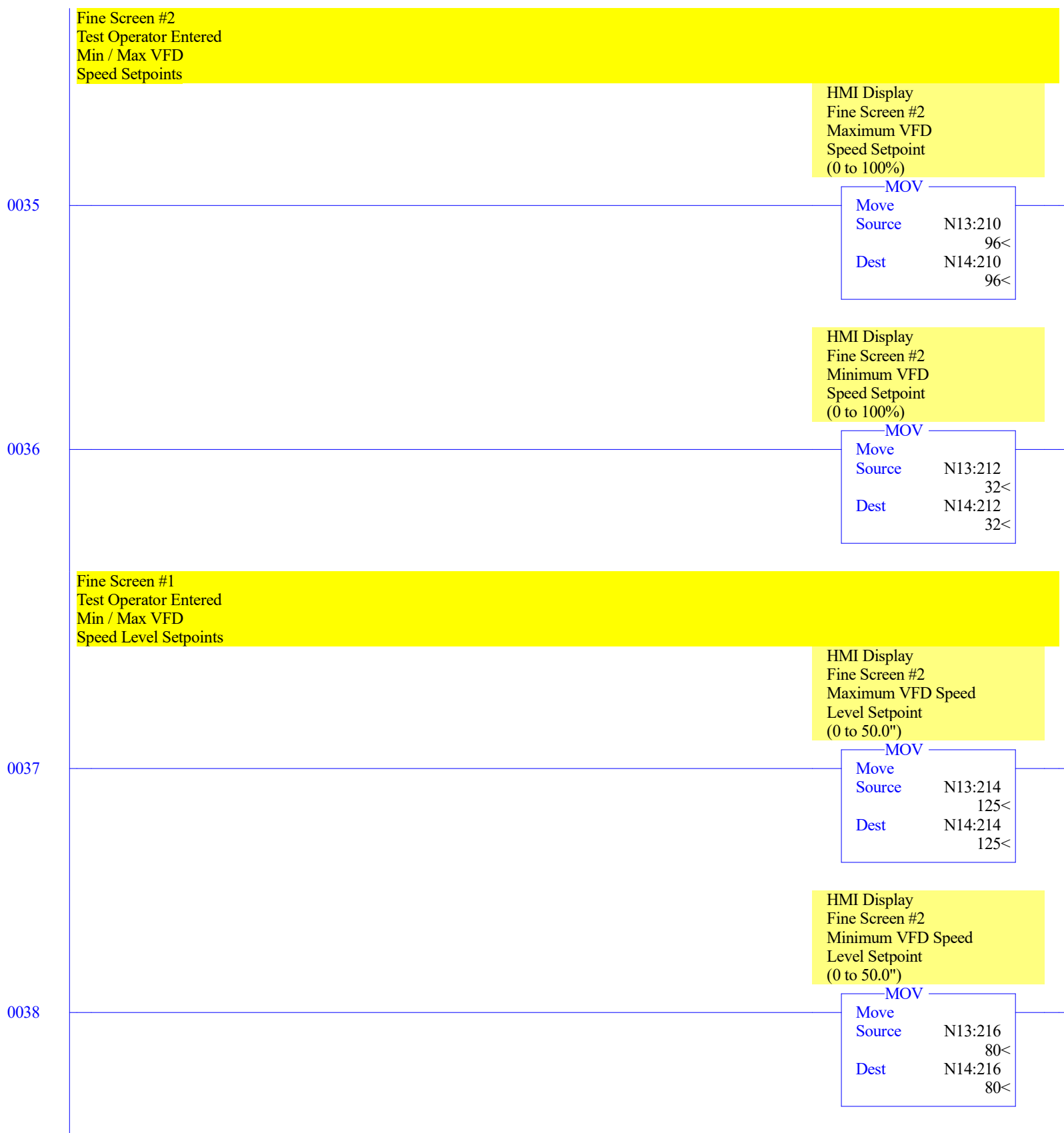
DIV  
 Divide  
 Source A N18:206  
 120<  
 Source B 60  
 60<  
 Dest N14:206  
 2<

0033

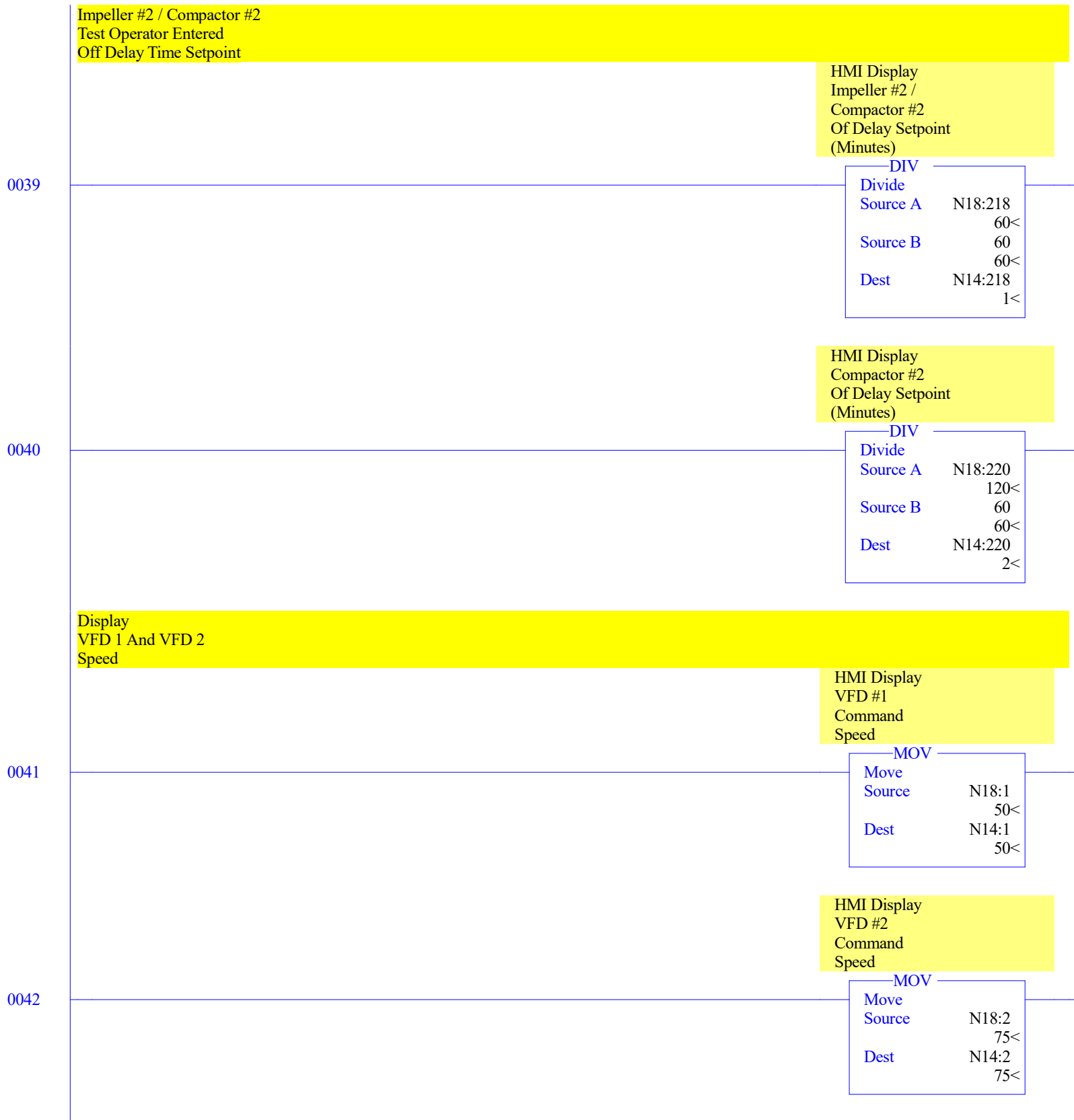
HMI Display  
 Impeller #2  
 Rest Time  
 Setpoint  
 (Minutes)

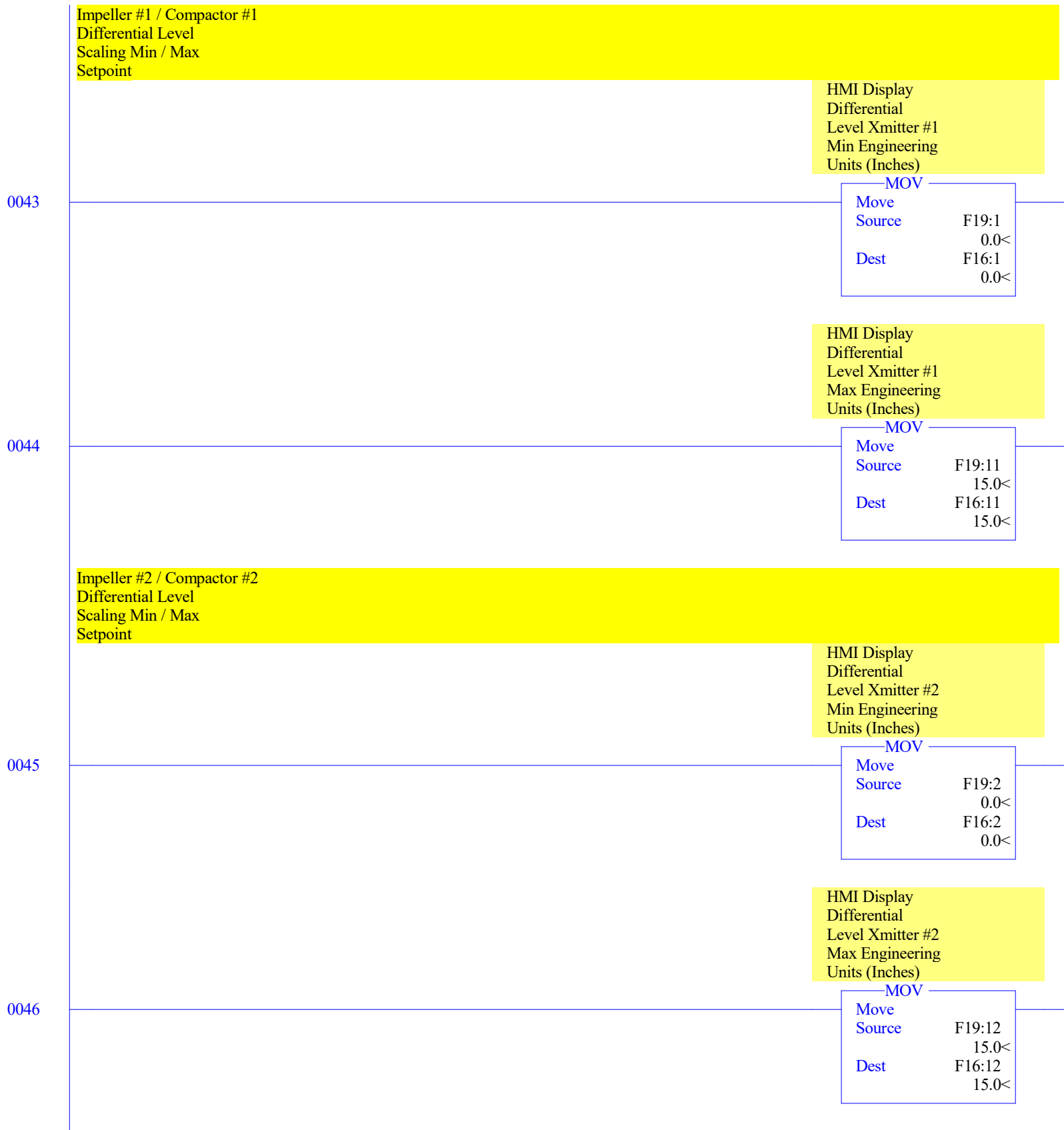
DIV  
 Divide  
 Source A N18:208  
 120<  
 Source B 60  
 60<  
 Dest N14:208  
 2<

0034









Fine Screen #2  
Timed Mode  
VFD 2 Command Speed

HMI Display  
Fine Screen #2  
Timed Mode  
VFD 2 Idle  
Speed Setpoint

MOV

Move	
Source	N18:226 75<
Dest	N14:222 75<

0047

\*\*\*\*\* Display Operator Entry Out Of Range \*\*\*\*\*

Fine Screen #1 Operator Entered  
 Maximum Setpoint Is Less Than Minimum Setpoint  
 Or  
 Minimum Setpoint Is Greater Than Maximum Setpoint

HMI Edit  
 Fine  
 Screen #1  
 Stop  
 Setpoint (Inches)

HMI LT  
 Fine Screen #1  
 Setpoint Entry  
 Out Of Range

B12:1  
 0

GEQ  
 Grtr Than or Eql (A>=B)  
 Source A     F15:102  
                   9.5<  
 Source B     F15:100  
                   12.5<

HMI Edit  
 Fine Screen #1  
 Minimum VFD  
 Speed Setpoint  
 (0 to 100%)

GEQ  
 Grtr Than or Eql (A>=B)  
 Source A     N13:112  
                   15<  
 Source B     N13:110  
                   95<

HMI Edit  
 Fine Screen #1  
 Minimum VFD Speed  
 Level Setpoint  
 (0 to 50.0")

GEQ  
 Grtr Than or Eql (A>=B)  
 Source A     N13:116  
                   80<  
 Source B     N13:114  
                   100<

0048

Fine Screen #2 Operator Entered  
 Maximum Setpoint Is Less Than Minimum Setpoint  
 Or  
 Minimum Setpoint Is Greater Than Maximum Setpoint

HMI Edit  
 Fine  
 Screen #2  
 Stop  
 Setpoint (Inches)

HMI LT  
 Fine Screen #2  
 Setpoint Entry  
 Out Of Range

GEQ

Grtr Than or Eql (A>=B)

Source A F15:202  
 9.5<  
 Source B F15:200  
 12.5<

B12:1



HMI Edit  
 Fine Screen #2  
 Minimum VFD  
 Speed Setpoint  
 (0 to 100%)

GEQ

Grtr Than or Eql (A>=B)

Source A N13:212  
 32<  
 Source B N13:210  
 96<

HMI Edit  
 Fine Screen #2  
 Minimum VFD Speed  
 Level Setpoint  
 (0 to 50.0")

GEQ

Grtr Than or Eql (A>=B)

Source A N13:216  
 80<  
 Source B N13:214  
 125<

END

0049

0050

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
O:1.0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	1	1746-NIO4I - Analog 2 Ch In/2 Ch Current Out
O:1.1	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	1746-NIO4I - Analog 2 Ch In/2 Ch Current Out
O:4.0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1746-OW16 - 16-Output (RLY) 240 VAC

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
I:1.0	0	0	0	0	1	1	0	1	0	0	0	0	1	1	0	0	1746-NIO4I - Analog 2 Ch In/2 Ch Current Out
I:1.1	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	1	1746-NIO4I - Analog 2 Ch In/2 Ch Current Out
I:2.0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	1	1	1746-IA16 - 16-Input 100/120 VAC
I:3.0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1746-IA16 - 16-Input 100/120 VAC

**Main**

First Pass S:1/15 = No  
 Index Register S:24 = 0  
 Free Running Clock S:4 = 0110-0111-0000-0000  
 Index Across Data Files S:2/3 = No  
 CIF Addressing Mode S:2/8 = 0  
 Online Edits S:33/11 - S:33/12 = No online edits exist

Day of the Week S:53L = Monday  
 DD / MM / YYYY  
 Date S:39-37 = 9 / 10 / 2011  
 HH : MM : SS  
 Time S:40-42 = 12 : 5 : 24

**Proc**

OS Catalog Number S:57 = 501  
 OS Series S:58 = C  
 OS FRS S:59 = 10  
 Processor Catalog Number S:60 = 551  
 Processor Series S:61 = C  
 Processor FRN S:62 = 5  
 Ethernet Daughterboard Series S:9 = 3  
 Ethernet Daughterboard FRN S:10 = 46

User Program Type S:63 = 2049  
 User Program Functionality Index S:64 = 95  
 User RAM Size S:66 = 16  
 OS Memory Size S:66 = 512

**Scan Times**

Maximum (x10 ms) S:22 = 2  
 Average (x10 ms) S:23 = 1  
 Current (x10 ms) S:3 (low byte) = 1  
 Watchdog (x10 ms) S:3 (high byte) = 10  
 Last 1ms Scan Time S:35 = 7  
 Scan Toggle Bit S:33/9 = 0  
 Time Base Selection S:33/13 = 0

**Math**

Math Overflow Selected S:2/14 = 0  
 Overflow Trap S:5/0 = 0  
 Carry S:0/0 = 0  
 Overflow S:0/1 = 0  
 Zero Bit S:0/2 = 0  
 Sign Bit S:0/3 = 0  
 Floating Point Flag Disable S:34/2 = 0

Math Register (lo word) S:13 = 0  
 Math Register (high word) S:14-S:13 = 2  
 Math Register (32 Bit) S:14-S:13 = 131072

**IO**

I/O Interrupt Executing S:32 = 0  
 Interrupt Latency Control S:33/8 = 0  
 Event Interrupt 10 uS Time Stamp S:44 = 0

I/O Slot Enables: S:11 \_S:12  
 0 10 20 30  
 11111111 11111111 11111111 11111111

I/O Slot Interrupt Enables: S:27 \_S:28  
 0 10 20 30  
 11111111 11111111 11111111 11111111

I/O Slot Interrupt Pending: S:25 \_S:26  
 0 10 20 30  
 00000000 00000000 00000000 00000000

**Chan 0**

Processor Mode S:1/0- S:1/4 = Remote Run  
 Channel Mode S:33/3 = 1  
 Comms Active S:33/4 = 0  
 Incoming Cmd Pending S:33/0 = 0  
 Msg Reply Pending S:33/1 = 0

DTR Control Bit S:33/14 = 0  
 DTR Force Bit S:33/15 = 0  
 Outgoing Msg Cmd Pending S:33/2 = 0  
 Comms Servicing Sel S:33/5 = 0  
 Msg Servicing Sel S:33/6 = 0  
 Modem Lost S:5/14 = 1

**Chan 1**

Processor Mode S:1/0- S:1/4 = Remote Run  
 Comms Active S:1/7 = 1  
 Incoming Cmd Pending S:2/5 = 0  
 Msg Reply Pending S:2/6 = 0  
 DH485 Gateway Disable Bit S:34/0 = 0

Outgoing Msg Cmd Pending S:2/7 = 0  
 Comms Servicing Sel S:2/15 = 1  
 Msg Servicing Sel S:33/7 = 0



**Debug**

```
Suspend Code S:7 = 0          Test Single Step Breakpoint
Suspend File S:8 = 0         Rung # S:18 = 0
Compiled For Single Step S:2/4 = Yes  File # S:19 = 0

Fault/Powerdown             Test Single Step
Fault/Powerdown (Rung #) S:20 = 24   Rung # S:16 = 0
(File #) S:21 = 2             File # S:17 = 2
```

**Errors**

```
Fault Override At Power Up S:1/8 = 0  ASCII String Manipulation error S:5/15 = 0
Startup Protection Fault S:1/9 = 0     Fault Routine S:29 = 0
Major Error Halt S:1/13 = 0           Major Error S:6 = 0h
Overflow Trap S:5/0 = 0
Control Register Error S:5/2 = 0      Error Description:
Major Error Executing User Fault Rtn. S:5/3 = 0
M0/M1 Referenced On Disabled Slot S:5/4 = 0
Battery Low S:5/11 = 0
Fault/Powerdown (Rung #) S:20 = 24
(File #) S:21 = 2
```

**STI**

```
Setpoint (x10ms) S:30 = 0           Resolution Select Bit S:2/10 = 0
File Number S:31 = 0               Executing Bit S:2/2 = 0
10 uS Time Stamp S:43 = 0         Overflow Bit S:5/10 = 0
Pending Bit S:2/0 = 0             Lost S:36/9 = 0
Enable Bit S:2/1 = 1             Interrrupt Latency Control S:33/8 = 0
```

**DII**

```
Preset S:50 = 0                   File Number S:46 = 0
Accumulator S:52 = 0             Slot Number S:47 = 0
Pending Bit S:2/11 = 0          Bit Mask S:48 = 0h
Enable Bit S:2/12 = 1          Compare Value S:49 = 0h
Executing Bit S:2/13 = 0       Return Mask S:51 = 0h
Reconfiguration Bit S:33/10 = 0  Last Scan Time (x1 ms) S:55 = 0
Overflow Bit S:5/12 = 0       Max Observed Scan Time (x1 ms) S:56 = 0
Lost S:36/8 = 0              Interrrupt Latency Control S:33/8 = 0
10 uS Time Stamp S:45 = 0
```

**Protection**

```
Deny Future Access S:1/14 = No
```

**Mem Module**

```
Memory Module Loaded On Boot S:5/8 = 0
Password Mismatch S:5/9 = 0
Load Memory Module On Memory Error S:1/10 = 0
Load Memory Module Always S:1/11 = 0
Load Memory Module and RUN S:1/12 = 0
Program Compare S:2/9 = 0
Data File Overwrite Protection Lost S:36/10 = 0
```

**Forces**

```
Forces Enabled S:1/5 = No
Forces Installed S:1/6 = No
```

---

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	(Symbol)	Description
B3:0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

---

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol)	Description
T4:0	1	1	0	.01 sec	100	11	One Second Flasher Timer	
T4:1	0	0	0	.01 sec	100	0	One Second Flasher Reset Timer	

---

Offset	CU	CD	DN	OV	UN	UA	PRE	ACC	(Symbol)	Description
C5:0	0	0	0	0	0	0	0	0		

---

Offset	EN	EU	DN	EM	ER	UL	IN	FD	LEN	POS	(Symbol)	Description
R6:0	0	0	0	0	0	0	0	0	0	0		

Data File N7 (dec) -- INTEGER

---

Offset	0	1	2	3	4	5	6	7	8	9
N7:0	0									

---

Offset	0	1	2	3	4
F8:0	0				

Data File N9 (dec) -- CONFIGURE -- Analog Configuration

Offset	0	1	2	3	4	5	6	7	8	9
N9:0	0									



---

Offset	0	1	2	3	4
F10:0	0.07324889	0	0	0	0
F10:5	0	0	0	0	0
F10:10	0	0			

Data File B11 (bin) -- PLC BIT RD -- PLC Bit Read From HMI

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	(Symbol) Description
B11:0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	(Symbol) Description
B12:0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
B12:1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B12:2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B12:3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B12:4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B12:5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B12:6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B12:7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B12:8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B12:9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Data File N13 (dec) -- PLC INT RD -- PLC Integer Read From HMI

Offset	0	1	2	3	4	5	6	7	8	9
N13:0	0	0	0	0	0	0	0	0	0	0
N13:10	0	0	0	0	0	0	0	0	0	0
N13:20	0	0	0	0	0	0	0	0	0	0
N13:30	0	0	0	0	0	0	0	0	0	0
N13:40	0	0	0	0	0	0	0	0	0	0
N13:50	0	0	0	0	0	0	0	0	0	0
N13:60	0	0	0	0	0	0	0	0	0	0
N13:70	0	0	0	0	0	0	0	0	0	0
N13:80	0	0	0	0	0	0	0	0	0	0
N13:90	0	0	0	0	0	0	0	0	0	0
N13:100	1	0	0	0	1	0	2	0	2	0
N13:110	95	0	15	0	100	0	80	0	1	0
N13:120	2	0	50	0	0	0	0	0	0	0
N13:130	0	0	0	0	0	0	0	0	0	0
N13:140	0	0	0	0	0	0	0	0	0	0
N13:150	0	0	0	0	0	0	0	0	0	0
N13:160	0	0	0	0	0	0	0	0	0	0
N13:170	0	0	0	0	0	0	0	0	0	0
N13:180	0	0	0	0	0	0	0	0	0	0
N13:190	0	0	0	0	0	0	0	0	0	0
N13:200	1	0	1	0	1	0	2	0	2	0
N13:210	96	0	32	0	125	0	80	0	1	0
N13:220	2	0	75							

Data File N14 (dec) -- PLC INT WT -- PLC Integer Write To HMI

Offset	0	1	2	3	4	5	6	7	8	9
N14:0	17	50	75	0	0	0	0	0	0	0
N14:10	0	4	4	0	0	0	0	0	0	0
N14:20	0	0	0	0	0	0	0	0	0	0
N14:30	0	0	0	0	0	0	0	0	0	0
N14:40	0	0	0	0	0	0	0	0	0	0
N14:50	0	0	0	0	0	0	0	0	0	0
N14:60	0	0	0	0	0	0	0	0	0	0
N14:70	0	0	0	0	0	0	0	0	0	0
N14:80	0	0	0	0	0	0	0	0	0	0
N14:90	0	0	0	0	0	0	0	0	0	0
N14:100	1	0	0	0	1	0	2	0	2	0
N14:110	95	0	15	0	100	0	80	0	1	0
N14:120	2	0	50	0	0	0	0	0	0	0
N14:130	0	0	0	0	0	0	0	0	0	0
N14:140	0	0	0	0	0	0	0	0	0	0
N14:150	0	0	0	0	0	0	0	0	0	0
N14:160	0	0	0	0	0	0	0	0	0	0
N14:170	0	0	0	0	0	0	0	0	0	0
N14:180	0	0	0	0	0	0	0	0	0	0
N14:190	0	0	0	0	0	0	0	0	0	0
N14:200	1	0	1	0	1	0	2	0	2	0
N14:210	96	0	32	0	125	0	80	0	1	0
N14:220	2	0	75							

Data File F15 -- PLC FLT RD -- PLC Float Read From HMI

Offset	0	1	2	3	4
F15:0	0	0	0	0	0
F15:5	0	0	0	0	0
F15:10	0	15	15	0	0
F15:15	0	0	0	0	0
F15:20	0	0	0	0	0
F15:25	0	0	0	0	0
F15:30	0	0	0	0	0
F15:35	0	0	0	0	0
F15:40	0	0	0	0	0
F15:45	0	0	0	0	0
F15:50	0	0	0	0	0
F15:55	0	0	0	0	0
F15:60	0	0	0	0	0
F15:65	0	0	0	0	0
F15:70	0	0	0	0	0
F15:75	0	0	0	0	0
F15:80	0	0	0	0	0
F15:85	0	0	0	0	0
F15:90	0	0	0	0	0
F15:95	0	0	0	0	0
F15:100	12.5	0	9.5	0	0
F15:105	0	0	0	0	0
F15:110	0	0	0	0	0
F15:115	0	0	0	0	0
F15:120	0	0	0	0	0
F15:125	0	0	0	0	0
F15:130	0	0	0	0	0
F15:135	0	0	0	0	0
F15:140	0	0	0	0	0
F15:145	0	0	0	0	0
F15:150	0	0	0	0	0
F15:155	0	0	0	0	0
F15:160	0	0	0	0	0
F15:165	0	0	0	0	0
F15:170	0	0	0	0	0
F15:175	0	0	0	0	0
F15:180	0	0	0	0	0
F15:185	0	0	0	0	0
F15:190	0	0	0	0	0
F15:195	0	0	0	0	0
F15:200	12.5	0	9.5	0	0
F15:205	0	0			

Data File F16 -- PLC FLT WT -- PLC Float Write To HMI

Offset	0	1	2	3	4
F16:0	0	0	0	0	0
F16:5	0	0	0	0	0
F16:10	0	15	15	0	0
F16:15	0	0	0	0	0
F16:20	0	0	0	0	0
F16:25	0	0	0	0	0
F16:30	0	0.07210438	0	0	0
F16:35	0	0	0	0	0
F16:40	0	0	0	0	0
F16:45	0	0	0	0	0
F16:50	0	0	0	0	0
F16:55	0	0	0	0	0
F16:60	0	0	0	0	0
F16:65	0	0	0	0	0
F16:70	0	0	0	0	0
F16:75	0	0	0	0	0
F16:80	0	0	0	0	0
F16:85	0	0	0	0	0
F16:90	0	0	0	0	0
F16:95	0	0	0	0	0
F16:100	12.5	0	9.5	0	0
F16:105	0	0	0	0	0
F16:110	0	0	0	0	0
F16:115	0	0	0	0	0
F16:120	0	0	0	0	0
F16:125	0	0	0	0	0
F16:130	0	0	0	0	0
F16:135	0	0	0	0	0
F16:140	0	0	0	0	0
F16:145	0	0	0	0	0
F16:150	0	0	0	0	0
F16:155	0	0	0	0	0
F16:160	0	0	0	0	0
F16:165	0	0	0	0	0
F16:170	0	0	0	0	0
F16:175	0	0	0	0	0
F16:180	0	0	0	0	0
F16:185	0	0	0	0	0
F16:190	0	0	0	0	0
F16:195	0	0	0	0	0
F16:200	12.5	0	9.5	0	0

Data File B17 (bin) -- CNTL BITS -- System Control Bits

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	(Symbol) Description
B17:0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:6	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	
B17:7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
B17:8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:12	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
B17:13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
B17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:18	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
B17:19	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	
B17:20	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	
B17:21	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
B17:22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:25	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
B17:26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:27	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
B17:28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	



Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	(Symbol) Description
B17:67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:68	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
B17:69	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
B17:70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
B17:76	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:81	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
B17:82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:83	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	
B17:84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:87	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
B17:88	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
B17:89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B17:90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

Data File N18 (dec) -- CNTL INTS -- System Control Integers

Offset	0	1	2	3	4	5	6	7	8	9
N18:0	0	50	75	0	0	0	0	0	0	0
N18:10	0	0	0	0	0	0	0	0	0	0
N18:20	0	0	0	0	0	0	0	0	0	0
N18:30	0	0	0	0	0	0	0	0	0	0
N18:40	0	0	0	0	0	0	0	0	0	0
N18:50	0	0	0	0	0	0	0	0	0	0
N18:60	0	0	0	0	0	0	0	0	0	0
N18:70	0	0	0	0	0	0	0	0	0	0
N18:80	0	0	0	0	0	0	0	0	0	0
N18:90	0	0	0	0	0	0	0	0	0	0
N18:100	60	0	0	0	60	0	120	0	120	0
N18:110	95	0	15	0	100	0	80	0	60	80
N18:120	120	0	80	0	15	0	50	0	0	0
N18:130	0	0	0	0	0	0	0	0	0	0
N18:140	0	0	0	0	0	0	0	0	0	0
N18:150	0	0	0	0	0	0	0	0	0	0
N18:160	0	0	0	0	0	0	0	0	0	0
N18:170	0	0	0	0	0	0	0	0	0	0
N18:180	0	0	0	0	0	0	0	0	0	0
N18:190	0	0	0	0	0	0	0	0	0	0
N18:200	60	0	60	0	60	0	120	0	120	0
N18:210	96	0	32	0	125	0	80	0	60	80
N18:220	120	0	80	0	32	0	75			

Data File F19 -- CNTL FLTS -- System Control Float

Offset	0	1	2	3	4
F19:0	0	0	0	0	0
F19:5	0	0	0	0	0
F19:10	0	15	15	0	0
F19:15	0	0	0	0	0
F19:20	0	0	0	0	0
F19:25	0	0	0	0	0
F19:30	0	0	0	0	0
F19:35	0	0	0	0	0
F19:40	0	0	0	0	0
F19:45	0	0	0	0	0
F19:50	0	0	0	0	0
F19:55	0	0	0	0	0
F19:60	0	0	0	0	0
F19:65	0	0	0	0	0
F19:70	0	0	0	0	0
F19:75	0	0	0	0	0
F19:80	0	0	0	0	0
F19:85	0	0	0	0	0
F19:90	0	0	0	0	0
F19:95	0	0	0	0	0
F19:100	12.5	0	9.5	0	0
F19:105	0	0	0	0	0
F19:110	0	0	0	0	0
F19:115	0	0	0	0	0
F19:120	0	0	0	0	0
F19:125	0	0	0	0	0
F19:130	0	0	0	0	0
F19:135	0	0	0	0	0
F19:140	0	0	0	0	0
F19:145	0	0	0	0	0
F19:150	0	0	0	0	0
F19:155	0	0	0	0	0
F19:160	0	0	0	0	0
F19:165	0	0	0	0	0
F19:170	0	0	0	0	0
F19:175	0	0	0	0	0
F19:180	0	0	0	0	0
F19:185	0	0	0	0	0
F19:190	0	0	0	0	0
F19:195	0	0	0	0	0
F19:200	12.5	0	9.5	0	0
F19:205	0	0			

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol) Description
T20:0	0	0	0	.01 sec	0	0	
T20:1	0	0	0	.01 sec	0	0	
T20:2	0	0	0	.01 sec	0	0	
T20:3	0	0	0	.01 sec	0	0	
T20:4	0	0	0	.01 sec	0	0	
T20:5	0	0	0	.01 sec	0	0	
T20:6	0	0	0	.01 sec	0	0	
T20:7	0	0	0	.01 sec	0	0	
T20:8	0	0	0	.01 sec	0	0	
T20:9	0	0	0	.01 sec	0	0	
T20:10	0	0	0	1.0 sec	10	0	Fine Screen #1 At Start Differential Level Delay Timer
T20:11	0	0	0	.01 sec	0	0	
T20:12	0	0	0	1.0 sec	60	0	Fine Screen #1 At Stop Differential Level Delay Timer
T20:13	0	0	0	.01 sec	0	0	
T20:14	0	0	0	.01 sec	0	0	
T20:15	0	0	0	.01 sec	0	0	
T20:16	0	0	0	.01 sec	0	0	
T20:17	0	0	0	.01 sec	0	0	
T20:18	0	0	0	.01 sec	0	0	
T20:19	0	0	0	.01 sec	0	0	
T20:20	0	0	0	1.0 sec	0	0	Fine Screen #1 Elapsed Timed Mode Idle Dwell Timer
T20:21	0	0	0	.01 sec	0	0	
T20:22	1	1	0	1.0 sec	60	25	Fine Screen #1 Elapsed Timed Mode Run Dwell Timer
T20:23	0	0	0	.01 sec	0	0	
T20:24	0	0	0	.01 sec	0	0	
T20:25	0	0	0	.01 sec	0	0	
T20:26	0	0	0	.01 sec	0	0	
T20:27	0	0	0	.01 sec	0	0	
T20:28	0	0	0	.01 sec	0	0	
T20:29	0	0	0	.01 sec	0	0	
T20:30	1	0	1	1.0 sec	60	0	Impeller #1 Off Delay Dwell Timer
T20:31	0	0	0	.01 sec	0	0	
T20:32	1	1	0	1.0 sec	120	25	Impeller #1 Run Dwell Timer
T20:33	0	0	0	.01 sec	0	0	
T20:34	0	0	0	1.0 sec	120	0	Impeller #1 Rest Dwell Timer
T20:35	0	0	0	.01 sec	0	0	
T20:36	1	0	1	1.0 sec	120	0	Compactor #1 Off Delay Dwell Timer
T20:37	0	0	0	.01 sec	0	0	
T20:38	0	0	0	.01 sec	0	0	
T20:39	0	0	0	.01 sec	0	0	
T20:40	0	0	0	.01 sec	0	0	
T20:41	0	0	0	.01 sec	0	0	
T20:42	0	0	0	.01 sec	0	0	
T20:43	0	0	0	.01 sec	0	0	
T20:44	0	0	0	.01 sec	0	0	
T20:45	0	0	0	.01 sec	0	0	
T20:46	0	0	0	.01 sec	0	0	
T20:47	0	0	0	.01 sec	0	0	
T20:48	0	0	0	.01 sec	0	0	
T20:49	0	0	0	.01 sec	0	0	
T20:50	0	0	0	.01 sec	0	0	
T20:51	0	0	0	.01 sec	0	0	
T20:52	0	0	0	.01 sec	0	0	
T20:53	0	0	0	.01 sec	0	0	
T20:54	0	0	0	.01 sec	0	0	
T20:55	0	0	0	.01 sec	0	0	
T20:56	0	0	0	.01 sec	0	0	
T20:57	0	0	0	.01 sec	0	0	
T20:58	0	0	0	.01 sec	0	0	
T20:59	0	0	0	.01 sec	0	0	
T20:60	0	0	0	.01 sec	0	0	
T20:61	0	0	0	.01 sec	0	0	
T20:62	0	0	0	.01 sec	0	0	
T20:63	0	0	0	.01 sec	0	0	
T20:64	0	0	0	.01 sec	0	0	
T20:65	0	0	0	.01 sec	0	0	
T20:66	0	0	0	.01 sec	0	0	

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol) Description
T20:67	0	0	0	.01 sec	0	0	
T20:68	0	0	0	.01 sec	0	0	
T20:69	0	0	0	.01 sec	0	0	
T20:70	0	0	0	.01 sec	0	0	
T20:71	0	0	0	.01 sec	0	0	
T20:72	0	0	0	.01 sec	0	0	
T20:73	0	0	0	.01 sec	0	0	
T20:74	0	0	0	.01 sec	0	0	
T20:75	0	0	0	.01 sec	0	0	
T20:76	0	0	0	.01 sec	0	0	
T20:77	0	0	0	.01 sec	0	0	
T20:78	0	0	0	.01 sec	0	0	
T20:79	0	0	0	.01 sec	0	0	
T20:80	0	0	0	.01 sec	0	0	
T20:81	0	0	0	.01 sec	0	0	
T20:82	0	0	0	.01 sec	0	0	
T20:83	0	0	0	.01 sec	0	0	
T20:84	0	0	0	.01 sec	0	0	
T20:85	0	0	0	.01 sec	0	0	
T20:86	0	0	0	.01 sec	0	0	
T20:87	0	0	0	.01 sec	0	0	
T20:88	0	0	0	.01 sec	0	0	
T20:89	0	0	0	.01 sec	0	0	
T20:90	0	0	0	.01 sec	0	0	
T20:91	0	0	0	.01 sec	0	0	
T20:92	0	0	0	.01 sec	0	0	
T20:93	0	0	0	.01 sec	0	0	
T20:94	0	0	0	.01 sec	0	0	
T20:95	0	0	0	.01 sec	0	0	
T20:96	0	0	0	.01 sec	0	0	
T20:97	0	0	0	.01 sec	0	0	
T20:98	0	0	0	.01 sec	0	0	
T20:99	0	0	0	.01 sec	0	0	
T20:100	0	0	0	.01 sec	0	0	
T20:101	0	0	0	.01 sec	0	0	
T20:102	0	0	0	.01 sec	0	0	
T20:103	0	0	0	.01 sec	0	0	
T20:104	0	0	0	.01 sec	0	0	
T20:105	0	0	0	.01 sec	0	0	
T20:106	0	0	0	.01 sec	0	0	
T20:107	0	0	0	.01 sec	0	0	
T20:108	0	0	0	.01 sec	0	0	
T20:109	0	0	0	.01 sec	0	0	
T20:110	0	0	0	1.0 sec	10	0	Fine Screen #2 At Start Differential Level Delay Timer
T20:111	0	0	0	.01 sec	0	0	
T20:112	0	0	0	1.0 sec	60	0	Fine Screen #2 At Stop Differential Level Delay Timer
T20:113	0	0	0	.01 sec	0	0	
T20:114	0	0	0	.01 sec	0	0	
T20:115	0	0	0	.01 sec	0	0	
T20:116	0	0	0	.01 sec	0	0	
T20:117	0	0	0	.01 sec	0	0	
T20:118	0	0	0	.01 sec	0	0	
T20:119	0	0	0	.01 sec	0	0	
T20:120	0	0	0	1.0 sec	60	0	Fine Screen #2 Elapsed Timed Mode Idle Dwell Timer
T20:121	0	0	0	.01 sec	0	0	
T20:122	1	1	0	1.0 sec	60	25	Fine Screen #2 Elapsed Timed Mode Run Dwell Timer
T20:123	0	0	0	.01 sec	0	0	
T20:124	0	0	0	.01 sec	0	0	
T20:125	0	0	0	.01 sec	0	0	
T20:126	0	0	0	.01 sec	0	0	
T20:127	0	0	0	.01 sec	0	0	
T20:128	0	0	0	.01 sec	0	0	
T20:129	0	0	0	.01 sec	0	0	
T20:130	1	0	1	1.0 sec	60	0	Impeller #2 Off Delay Dwell Timer
T20:131	0	0	0	.01 sec	0	0	
T20:132	1	1	0	1.0 sec	120	25	Impeller #2 Run Dwell Timer
T20:133	0	0	0	.01 sec	0	0	

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol) Description
T20:134	0	0	0	1.0 sec	120	0	Impeller #2 Rest Dwell Timer
T20:135	0	0	0	.01 sec	0	0	
T20:136	1	0	1	1.0 sec	120	0	Compactor #2 Off Delay Dwell Timer

Data File C21 -- CNTL CTRS -- System Control Counters

Offset	CU	CD	DN	OV	UN	UA	PRE	ACC	(Symbol)	Description
C21:0	0	0	0	0	0	0	0	0		

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	(Symbol) Description
B22:0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B22:13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	



Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol)	Description
T23:0	0	0	0	.01 sec	0	0		
T23:1	0	0	0	.01 sec	500	0	Alarm #1	Delay Timer
T23:2	0	0	0	.01 sec	500	0	Alarm #2	Delay Timer
T23:3	0	0	0	.01 sec	200	0	Alarm #3	Delay Timer
T23:4	0	0	0	.01 sec	200	0	Alarm #4	Delay Timer
T23:5	0	0	0	.01 sec	100	0	Alarm #5	Delay Timer
T23:6	0	0	0	.01 sec	100	0	Alarm #6	Delay Timer
T23:7	0	0	0	.01 sec	200	0	Alarm #7	Delay Timer
T23:8	0	0	0	.01 sec	200	0	Alarm #8	Delay Timer
T23:9	0	0	0	.01 sec	200	0	Alarm #9	Delay Timer
T23:10	0	0	0	.01 sec	200	0	Alarm #10	Delay Timer
T23:11	0	0	0	.01 sec	200	0	Alarm #11	Delay Timer
T23:12	0	0	0	.01 sec	200	0	Alarm #12	Delay Timer
T23:13	0	0	0	.01 sec	500	0	Alarm #13	Delay Timer
T23:14	0	0	0	.01 sec	500	0	Alarm #14	Delay Timer
T23:15	0	0	0	.01 sec	500	0	Alarm #15	Delay Timer
T23:16	0	0	0	.01 sec	500	0	Alarm #16	Delay Timer
T23:17	0	0	0	.01 sec	100	0	Alarm #17	Delay Timer
T23:18	0	0	0	.01 sec	100	0	Alarm #18	Delay Timer
T23:19	0	0	0	.01 sec	100	0	Alarm #19	Delay Timer
T23:20	0	0	0	.01 sec	100	0	Alarm #20	Delay Timer
T23:21	0	0	0	.01 sec	100	0	Alarm #21	Delay Timer
T23:22	0	0	0	.01 sec	100	0	Alarm #22	Delay Timer
T23:23	0	0	0	.01 sec	100	0	Alarm #23	Delay Timer
T23:24	0	0	0	.01 sec	100	0	Alarm #24	Delay Timer
T23:25	0	0	0	.01 sec	0	0		
T23:26	0	0	0	.01 sec	0	0		
T23:27	0	0	0	.01 sec	0	0		
T23:28	0	0	0	.01 sec	0	0		
T23:29	0	0	0	.01 sec	0	0		
T23:30	0	0	0	.01 sec	0	0		
T23:31	0	0	0	.01 sec	0	0		
T23:32	0	0	0	.01 sec	0	0		
T23:33	0	0	0	.01 sec	0	0		
T23:34	0	0	0	.01 sec	0	0		
T23:35	0	0	0	.01 sec	0	0		
T23:36	0	0	0	.01 sec	0	0		
T23:37	0	0	0	.01 sec	0	0		
T23:38	0	0	0	.01 sec	0	0		
T23:39	0	0	0	.01 sec	0	0		
T23:40	0	0	0	1.0 sec	5	0	Alarm Display	Timer

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Offset	CU	CD	DN	OV	UN	UA	PRE	ACC	(Symbol)	Description
C24:0	1	0	1	1	0	0	32	17	Alarm Display Counter	

Address (Symbol) = Value [Description]

## Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group
B3:0/0			Always Off	
B11:0/0			HMI PB Alarm Reset	
B12:0/1			HMI Display Fine Screen #1 Mode Of Operation 0 = Elapsed Time 1 = Diff Level	
B12:0/2			HMI Display Fine Screen #2 Mode Of Operation 0 = Elapsed Time 1 = Diff Level	
B12:0/11			HMI Display Course Screen #1 Running	
B12:0/12			HMI Display Course Screen #2 Running	
B12:1/0			HMI LT Fine Screen #1 Setpoint Entry Out Of Range	
B12:1/1			HMI LT Fine Screen #2 Setpoint Entry Out Of Range	
B17:6/4			Fine Screen #1 VFD Start Permissive	
B17:6/6			Fine Screen #1 VFD Run Permissive	
B17:6/14			Fine Screen #1 In Differential Level Mode Of Operation	
B17:7/0			Fine Screen #1 In Elapse Time Mode Of Operation	
B17:7/8			Fine Screen #1 At Start Differential Level Setpoint	
B17:7/10			Fine Screen #1 At Stop Differential Level Setpoint	
B17:7/12			Fine Screen #1 At Start Differential Level Latch	
B17:8/2			Fine Screen #1 Differential Level Mode VFD #1 Run Enable 0:4/00	
B17:12/8			Fine Screen #1 Enable Elapsed Time Mode	
B17:14/6			Fine Screen #1 Elapsed Time Mode VFD #1 Run Enable 0:4/00	
B17:18/12			Impeller #1 And Compactor #1 Start Request	
B17:19/6			Impeller #1 Start / Run Permissives	
B17:20/10			Impeller #1 Start Latch	
B17:21/4			Impeller #1 Run Enable 0:4/6	
B17:25/0			Compactor #1 Start Request	
B17:25/10			Compactor #1 Start / Run Permissives	
B17:27/8			Compactor #1 Run Enable 0:4/7	
B17:68/12			Fine Screen #2 VFD Start Permissive	
B17:68/14			Fine Screen #2 VFD Run Permissive	
B17:69/6			Fine Screen #2 In Differential Level Mode Of Operation	
B17:69/8			Fine Screen #2 In Elapse Time Mode Of Operation	
B17:70/0			Fine Screen #2 At Start Differential Level Setpoint	
B17:70/2			Fine Screen #2 At Stop Differential Level Setpoint	
B17:70/4			Fine Screen #2 At Start Differential Level Latch	
B17:70/10			Fine Screen #2 Differential Level Mode VFD #2 Run Enable 0:4/00	
B17:75/0			Fine Screen #2 Enable Elapsed Time Mode	
B17:76/14			Fine Screen #2 Elapsed Time Mode VFD #2 Run Enable 0:4/00	
B17:81/4			Impeller #2 And Compactor #2 Start Request	
B17:81/14			Impeller #2 Start / Run Permissives	
B17:83/2			Impeller #2 Start Latch	
B17:83/12			Impeller #2 Run Enable 0:4/8	
B17:87/8			Compactor #2 Start Request	
B17:88/2			Compactor #2 Start / Run Permissives	
B17:90/0			Compactor #2 Run Enable 0:4/9	
B22:0/0			Scan Pulser	
B22:0/1			Alarm #1 Fine Screen #1 Run Fail Alarm	
B22:0/2			Alarm #2 Fine Screen #2 Run Fail Alarm	
B22:0/3			Alarm #3 Fine Screen #1 Overload	
B22:0/4			Alarm #4 Fine Screen #2 Overload	
B22:0/5			Alarm #5 Fine Screen #1 E-Stop Pushed	
B22:0/6			Alarm #6 Fine Screen #2 E-Stop Pushed	
B22:0/7			Alarm #7 Fine Screen #1 VFD Fail	
B22:0/8			Alarm #8 Fine Screen #2 VFD Fail	
B22:0/9			Alarm #9 Impeller #1 Overload	
B22:0/10			Alarm #10 Compactor #1 Overload	
B22:0/11			Alarm #11 Impeller #2 Overload	
B22:0/12			Alarm #12 Compactor #2 Overload	
B22:0/13			Alarm #13 Compactor #1 Run Fail	
B22:0/14			Alarm #14 Impeller #1 Run Fail	
B22:0/15			Alarm #15 Compactor #2 Run Fail	
B22:1/0			Alarm #16 Impeller #2 Run Fail	
B22:1/1			Alarm #17 Wash Compactor E-Stop Pressed	
B22:1/2			Alarm #18 Washpactor Tank Low Level	
B22:1/3			Alarm #19	
B22:1/4			Alarm #20	
B22:1/5			Alarm #21	
B22:1/6			Alarm #22	
B22:1/7			Alarm #23	
B22:1/8			Alarm #24	
B22:6/5			Alarm #1 Enable Display	
B22:6/6			Alarm #2 Enable Display	
B22:6/7			Alarm #3 Enable Display	
B22:6/8			Alarm #4 Enable Display	
B22:6/9			Alarm #5 Enable Display	
B22:6/10			Alarm #6 Enable Display	
B22:6/11			Alarm #7 Enable Display	
B22:6/12			Alarm #8 Enable Display	
B22:6/13			Alarm #9 Enable Display	
B22:6/14			Alarm #10 Enable Display	
B22:6/15			Alarm #11 Enable Display	
B22:7/0			Alarm #12 Enable Display	
B22:7/1			Alarm #13 Enable Display	
B22:7/2			Alarm #14 Enable Display	
B22:7/3			Alarm #15 Enable Display	
B22:7/4			Alarm #16 Enable Display	
B22:7/5			Alarm #17 Enable Display	

## Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group
B22:7/6			Alarm #18 Enable Display	
B22:7/7			Alarm #19 Enable Display	
B22:7/8			Alarm #20 Enable Display	
B22:7/9			Alarm #21 Enable Display	
B22:7/10			Alarm #22 Enable Display	
B22:7/11			Alarm #23 Enable Display	
B22:7/12			Alarm #24 Enable Display	
B22:7/13			Alarm #25 Enable Display	
B22:7/14			Alarm #26 Enable Display	
B22:7/15			Alarm #27 Enable Display	
B22:8/0			Alarm #28 Enable Display	
B22:8/1			Alarm #29 Enable Display	
B22:8/2			Alarm #30 Enable Display	
B22:8/3			Alarm #31 Enable Display	
B22:8/4			Alarm #32 Enable Display	
B22:12/9			Have An Alarm 1 Thru 8	
B22:12/10			Have An Alarm 9 Thru 16	
B22:12/11			Have An Alarm 17 Thru 24	
B22:12/12			Have An Alarm 25 Thru 32	
B22:13/2			Have An Alarm	
C24:0			Alarm Display Counter	
C24:0.ACC			Alarm Display Counter Actual	
C24:0/DN			Alarm Display Counter Complete	
F10:0	N18	Global	Fine Screen #1 Differential Level Scaled 0" to 50"	
F10:1			Fine Screen #2 Differential Level Scaled 0 to 10 Ft	
F10:11			Fine Screen #2 VFD Command Speed Raw Analog 6242 to 31208	
F15:1			HMI Edit Differential Level Xmitter #1 Min Engineering Units (Inches)	
F15:2			HMI Edit Differential Level Xmitter #2 Min Engineering Units (Inches)	
F15:11			HMI Edit Differential Level Xmitter #1 Max Engineering Units (Inches)	
F15:12			HMI Edit Differential Level Xmitter #2 Max Engineering Units (Inches)	
F15:100			HMI Edit Fine Screen #1 Start Setpoint (Inches)	
F15:102			HMI Edit Fine Screen #1 Stop Setpoint (Inches)	
F15:200			HMI Edit Fine Screen #2 Start Setpoint (Inches)	
F15:202			HMI Edit Fine Screen #2 Stop Setpoint (Inches)	
F16:1			HMI Display Differential Level Xmitter #1 Min Engineering Units (Inches)	
F16:2			HMI Display Differential Level Xmitter #2 Min Engineering Units (Inches)	
F16:11			HMI Display Differential Level Xmitter #1 Max Engineering Units (Inches)	
F16:12			HMI Display Differential Level Xmitter #2 Max Engineering Units (Inches)	
F16:31			HMI Display SCR #1 Differential Level	
F16:32			HMI Display SCR #2 Differential Level	
F16:100			HMI dISPLAY Fine Screen #1 Start Setpoint (Inches)	
F16:102			HMI Display Fine Screen #1 Stop Setpoint (Inches)	
F16:200			HMI Display Fine Screen #2 Start Setpoint (Inches)	
F16:202			HMI Display Fine Screen #2 Stop Setpoint (Inches)	
F19:1			Differential Level Xmitter #1 Min Engineering Units (Inches)	
F19:2			Differential Level Xmitter #2 Min Engineering Units (Inches)	
F19:11			Differential Level Xmitter #1 Max Engineering Units (Inches)	
F19:12			Differential Level Xmitter #2 Max Engineering Units (Inches)	
F19:100			Fine Screen #1 Start Setpoint (Inches)	
F19:102			Fine Screen #1 Stop Setpoint (Inches)	
F19:200			Fine Screen #2 Start Setpoint (Inches)	
F19:202			Fine Screen #2 Stop Setpoint (Inches)	
I:1.0			Fine Screen #1 Differential Level Raw Analog 3277 to 16384	
I:1.1			Fine Screen #2 Differential Level Raw Analog 3277 to 16384	
I:2/0			Fine Screen #1 VFD Run Confirm	
I:2/1			Fine Screen #2 VFD Run Confirm	
I:2/2			Fine Screen #1 Motor Overload	
I:2/3			Fine Screen #2 Motor Overload	
I:2/4			Fine Screen #1 Differential Level Operation SS	
I:2/5			Fine Screen #1 Elapse Time Operation SS	
I:2/6			Fine Screen #2 Differential Level Operation SS	
I:2/7			Fine Screen #2 Elapse Time Operation SS	
I:2/8			Fine Screen #1 In Auto Mode	
I:2/9			Fine Screen #2 In Auto Mode	
I:2/10			Fine Screen #1 E-Stop Pressed	
I:2/11			Fine Screen #2 E-Stop Pressed	
I:2/12			Fine Screen #1 VFD Fail	
I:2/13			Fine Screen #2 VFD Fail	
I:2/14			Spare Digital Input	
I:2/15			Spare Digital Input	
I:3/0			Impeller #1 Overload Contact	
I:3/1			Compactor #1 Overload Contact	
I:3/2			Impeller #2 Overload Contact	
I:3/3			Compactor #2 Overload Contact	
I:3/4			Compactor #1 Run Confirm	
I:3/5			Impeller #1 Run Confirm	
I:3/6			Compactor #2 Run Confirm	
I:3/7			Impeller #2 Run Confirm	
I:3/8			Run Enable From Course Screen #1	
I:3/9			Run Enable From Course Screen #2	
I:3/10			Wash Compactor E-Stop Pressed	
I:3/11			Washpactor Tank Low Level	
I:3/12			Spare Digital Input	
I:3/13			Spare Digital Input	

## Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group
I:3/14			Spare Digital Input	
I:3/15			Spare Digital Input	
N13:100			HMI Edit Fine Screen #1 Differential Level Screen Minimum Run Time (Minutes)	
N13:102			HMI Edit Fine Screen #1 Elapsed Time Mode Idle Time Setpoint (Minutes)	
N13:104			HMI Edit Fine Screen #1 Elapsed Time Mode Run Time Setpoint (Minutes)	
N13:106			HMI Edit Impeller #1 Run Time Setpoint (Minutes)	
N13:108			HMI Edit Impeller #1 Rest Time Setpoint (Minutes)	
N13:110			HMI Edit Fine Screen #1 Maximum VFD Speed Setpoint (0 to 100%)	
N13:112			HMI Edit Fine Screen #1 Minimum VFD Speed Setpoint (0 to 100%)	
N13:114			HMI Edit Fine Screen #1 Maximum VFD Speed Level Setpoint (0 to 50.0")	
N13:116			HMI Edit Fine Screen #1 Minimum VFD Speed Level Setpoint (0 to 50.0")	
N13:118			HMI Edit Compactor #1 Off Delay Setpoint (Minutes)	
N13:120			HMI Edit Impeller #1 Off Delay Setpoint (Minutes)	
N13:122			HMI Edit Fine Screen #1 Timed Mode VFD 1 Idle Speed Setpoint	
N13:200			HMI Edit Fine Screen #2 Differential Level Screen Minimum Run Time (Minutes)	
N13:202			HMI Edit Fine Screen #2 Elapsed Time Mode Idle Time Setpoint (Minutes)	
N13:204			HMI Edit Fine Screen #2 Elapsed Time Mode Run Time Setpoint (Minutes)	
N13:206			HMI Edit Impeller #2 Run Time Setpoint (Minutes)	
N13:208			HMI Edit Impeller #2 Rest Time Setpoint (Minutes)	
N13:210			HMI Edit Fine Screen #2 Maximum VFD Speed Setpoint (0 to 100%)	
N13:212			HMI Edit Fine Screen #2 Minimum VFD Speed Setpoint (0 to 100%)	
N13:214			HMI Edit Fine Screen #2 Maximum VFD Speed Level Setpoint (0 to 50.0")	
N13:216			HMI Edit Fine Screen #2 Minimum VFD Speed Level Setpoint (0 to 50.0")	
N13:218			HMI Edit Compactor #2 Off Delay Setpoint (Minutes)	
N13:220			HMI Edit Impeller #2 Off Delay Setpoint (Minutes)	
N13:222			HMI Edit Fine Screen #2 Timed Mode VFD 2 Idle Speed Setpoint	
N14:0			HMI Display Current Alarm Number	
N14:1			HMI Display VFD #1 Command Speed	
N14:2			HMI Display VFD #2 Command Speed	
N14:10				
N14:11			HMI Display Fine Screen #1 Hand/Off/Auto Status	
N14:12			HMI Display Fine Screen #2 Hand/Off/Auto Status	
N14:21				
N14:22				
N14:100			HMI Display Fine Screen #1 Differential Level Screen Minimum Run Time (Minutes)	
N14:102			HMI Display Fine Screen #1 Elapsed Time Mode Idle Time Setpoint (Minutes)	
N14:104			HMI Display Fine Screen #1 Elapsed Time Mode Run Time Setpoint (Minutes)	
N14:106			HMI Display Impeller #1 Run Time Setpoint (Minutes)	
N14:108			HMI Display Impeller #1 Rest Time Setpoint (Minutes)	
N14:110			HMI Display Fine Screen #1 Maximum VFD Speed Setpoint (0 to 100%)	
N14:112			HMI Display Fine Screen #1 Minimum VFD Speed Setpoint (0 to 100%)	
N14:114			HMI Display Fine Screen #1 Maximum VFD Speed Level Setpoint (0 to 50.0")	
N14:116			HMI Display Fine Screen #1 Minimum VFD Speed Level Setpoint (0 to 50.0")	
N14:118			HMI Display Impeller #1 Of Delay Setpoint (Minutes)	
N14:120			HMI Display Compactor #1 Of Delay Setpoint (Minutes)	
N14:122			HMI Display Fine Screen #1 Timed Mode VFD 1 Idle Speed Setpoint	
N14:200			HMI dISPLAY Fine Screen #2 Differential Level Screen Minimum Run Time (Minutes)	
N14:202			HMI Display Fine Screen #2 Elapsed Time Mode Idle Time Setpoint (Minutes)	
N14:204			HMI Display Fine Screen #2 Elapsed Time Mode Run Time Setpoint (Minutes)	
N14:206			HMI Display Impeller #2 Run Time Setpoint (Minutes)	
N14:208			HMI Display Impeller #2 Rest Time Setpoint (Minutes)	
N14:210			HMI Display Fine Screen #2 Maximum VFD Speed Setpoint (0 to 100%)	
N14:212			HMI Display Fine Screen #2 Minimum VFD Speed Setpoint (0 to 100%)	
N14:214			HMI Display Fine Screen #2 Maximum VFD Speed Level Setpoint (0 to 50.0")	
N14:216			HMI Display Fine Screen #2 Minimum VFD Speed Level Setpoint (0 to 50.0")	
N14:218			HMI Display Impeller #2 / Compactor #2 Of Delay Setpoint (Minutes)	
N14:220			HMI Display Compactor #2 Of Delay Setpoint (Minutes)	
N14:222			HMI Display Fine Screen #2 Timed Mode VFD 2 Idle Speed Setpoint	
N18:1			Fine Screen #1 VFD Command Output 0 To 100%	
N18:2			Fine Screen #2 VFD Command Output 0 To 100%	
N18:100			Fine Screen #1 Differential Level Screen Minimum Run Time (Seconds)	
N18:102			Fine Screen #1 Elapsed Time Mode Idle Time Setpoint (Seconds)	
N18:104			Fine Screen #1 Elapsed Time Mode Run Time Setpoint (Seconds)	
N18:106			Impeller #1 Run Time Setpoint (Seconds)	
N18:108			Impeller #1 Rest Time Setpoint (Seconds)	
N18:110			Fine Screen #1 Maximum VFD Speed Setpoint (0 to 100%)	
N18:112			Fine Screen #1 Minimum VFD Speed Setpoint (0 to 100%)	
N18:114			HMI Edit Fine Screen #1 Max VFD Speed Level Setpoint (0 to 500" 1 DP Assumed	
N18:116			HMI Edit Fine Screen #1 Min VFD Speed Level Setpoint (0 to 500" 1 DP Assumed	
N18:118			Compactor #1 Off Delay Setpoint (Seconds)	
N18:120			Impeller #1 Off Delay Setpoint (Seconds)	
N18:122			Fine Screen #1 Differential Level Scaled 0" to 500" 1 DP	
N18:124			Fine Screen #1 VFD Command Output 0 To 100%	
N18:126			Fine Screen #1 Timed Mode VFD 1 Idle Speed Setpoint 0 To 100%	
N18:200			Fine Screen #2 Differential Level Screen Minimum Run Time (Seconds)	
N18:202			Fine Screen #2 Elapsed Time Mode Idle Time Setpoint (Seconds)	
N18:204			Fine Screen #2 Elapsed Time Mode Run Time Setpoint (Seconds)	
N18:206			Impeller #2 Run Time Setpoint (Seconds)	
N18:208			Impeller #2 Rest Time Setpoint (Seconds)	
N18:210			Fine Screen #2 Maximum VFD Speed Setpoint (0 to 100%)	
N18:212			Fine Screen #2 Minimum VFD Speed Setpoint (0 to 100%)	
N18:214			HMI Edit Fine Screen #2 Max VFD Speed Level Setpoint (0 to 500" 1 DP Assumed	
N18:216			HMI Edit Fine Screen #2 Min VFD Speed Level Setpoint (0 to 500" 1 DP Assumed	
N18:218			Compactor #2 Of Delay Setpoint (Seconds)	

## Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group
N18:220			Impeller #2 Of Delay Setpoint (Seconds)	
N18:222			Fine Screen #2 Differential Level Scaled 0" to 500" 1 DP	
N18:224			Fine Screen #2 VFD Command Output 0 To 100%	
N18:226			Fine Screen #2 Timed Mode VFD 2 Idle Speed Setpoint 0 To 100%	
O:1.0			Fine Screen #1 VFD Command Speed Raw Analog 6242 to 31208	
O:1.1			Fine Screen #2 VFD Command Speed Raw Analog 6242 to 31208	
O:4/0			Fine Screen #1 Run Relay	
O:4/1			Fine Screen #2 Run Relay	
O:4/2			Fine Screen #1 Fail Relay	
O:4/3			Fine Screen #2 Fail Relay	
O:4/4			Fine Screen #1 Differential Level Speed Select	
O:4/5			Fine Screen #2 Differential Level Speed Select	
O:4/6			Impeller #1 Run Relay	
O:4/7			Compactor #1 Run Relay	
O:4/8			Impeller #2 Run Relay	
O:4/9			Compactor #2 Run Relay	
O:4/10			Spare Digital Output	
O:4/11			Spare Digital Output	
O:4/12			Spare Digital Output	
O:4/13			Spare Digital Output	
O:4/14			Spare Digital Output	
O:4/15			Spare Digital Output	
S:0			Arithmetic Flags	
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			Processor Mode Status/ Control	
S:1/0			Processor Mode Bit 0	
S:1/1			Processor Mode Bit 1	
S:1/2			Processor Mode Bit 2	
S:1/3			Processor Mode Bit 3	
S:1/4			Processor Mode Bit 4	
S:1/5			Forces Enabled	
S:1/6			Forces Present	
S:1/7			Comms Active	
S:1/8			Fault Override at Powerup	
S:1/9			Startup Protection Fault	
S:1/10			Load Memory Module on Memory Error	
S:1/11			Load Memory Module Always	
S:1/12			Load Memory Module and RUN	
S:1/13			Major Error Halted	
S:1/14			Access Denied	
S:1/15			First Pass	
S:2/0			STI Pending	
S:2/1			STI Enabled	
S:2/2			STI Executing	
S:2/3			Index Addressing File Range	
S:2/4			Saved with Debug Single Step	
S:2/5			DH-485 Incoming Command Pending	
S:2/6			DH-485 Message Reply Pending	
S:2/7			DH-485 Outgoing Message Command Pending	
S:2/15			Comms Servicing Selection	
S:3			Current Scan Time/ Watchdog Scan Time	
S:4			Time Base	
S:5/0			Overflow Trap	
S:5/2			Control Register Error	
S:5/3			Major Err Detected Executing UserFault Routine	
S:5/4			M0-M1 Referenced on Disabled Slot	
S:5/8			Memory Module Boot	
S:5/9			Memory Module Password Mismatch	
S:5/10			STI Overflow	
S:5/11			Battery Low	
S:6			Major Error Fault Code	
S:7			Suspend Code	
S:8			Suspend File	
S:9			Active Nodes	
S:10			Active Nodes	
S:11			I/O Slot Enables	
S:12			I/O Slot Enables	
S:13			Math Register	
S:14			Math Register	
S:15			Node Address/ Baud Rate	
S:16			Debug Single Step Rung	
S:17			Debug Single Step File	
S:18			Debug Single Step Breakpoint Rung	
S:19			Debug Single Step Breakpoint File	
S:20			Debug Fault/ Powerdown Rung	
S:21			Debug Fault/ Powerdown File	
S:22			Maximum Observed Scan Time	
S:23			Average Scan Time	
S:24			Index Register	
S:25			I/O Interrupt Pending	
S:26			I/O Interrupt Pending	

## Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group
S:27			I/O Interrupt Enabled	
S:28			I/O Interrupt Enabled	
S:29			User Fault Routine File Number	
S:30			STI Setpoint	
S:31			STI File Number	
S:32			I/O Interrupt Executing	
S:33			Extended Proc Status Control Word	
S:33/0			Incoming Command Pending	
S:33/1			Message Reply Pending	
S:33/2			Outgoing Message Command Pending	
S:33/3			Selection Status User/DF1	
S:33/4			Communicat Active	
S:33/5			Communicat Servicing Selection	
S:33/6			Message Servicing Selection Channel 0	
S:33/7			Message Servicing Selection Channel 1	
S:33/8			Interrupt Latency Control Flag	
S:33/9			Scan Toggle Flag	
S:33/10			Discrete Input Interrupt Reconfigur Flag	
S:33/11			Online Edit Status	
S:33/12			Online Edit Status	
S:33/13			Scan Time Timebase Selection	
S:33/14			DTR Control Bit	
S:33/15			DTR Force Bit	
S:34			Pass-thru Disabled	
S:34/0			Pass-Thru Disabled Flag	
S:34/1			DH+ Active Node Table Enable Flag	
S:34/2			Floating Point Math Flag Disable,Fl	
S:35			Last 1 ms Scan Time	
S:36			Extended Minor Error Bits	
S:36/8			DII Lost	
S:36/9			STI Lost	
S:36/10			Memory Module Data File Overwrite Protection	
S:37			Clock Calendar Year	
S:38			Clock Calendar Month	
S:39			Clock Calendar Day	
S:40			Clock Calendar Hours	
S:41			Clock Calendar Minutes	
S:42			Clock Calendar Seconds	
S:43			STI Interrupt Time	
S:44			I/O Event Interrupt Time	
S:45			DII Interrupt Time	
S:46			Discrete Input Interrupt- File Number	
S:47			Discrete Input Interrupt- Slot Number	
S:48			Discrete Input Interrupt- Bit Mask	
S:49			Discrete Input Interrupt- Compare Value	
S:50			Processor Catalog Number	
S:51			Discrete Input Interrupt- Return Number	
S:52			Discrete Input Interrupt- Accumulat	
S:53			Reserved/ Clock Calendar Day of the Week	
S:55			Last DII Scan Time	
S:56			Maximum Observed DII Scan Time	
S:57			Operating System Catalog Number	
S:58			Operating System Series	
S:59			Operating System FRN	
S:61			Processor Series	
S:62			Processor Revision	
S:63			User Program Type	
S:64			User Program Functional Index	
S:65			User RAM Size	
S:66			Flash EEPROM Size	
S:67			Channel 0 Active Nodes	
S:68			Channel 0 Active Nodes	
S:69			Channel 0 Active Nodes	
S:70			Channel 0 Active Nodes	
S:71			Channel 0 Active Nodes	
S:72			Channel 0 Active Nodes	
S:73			Channel 0 Active Nodes	
S:74			Channel 0 Active Nodes	
S:75			Channel 0 Active Nodes	
S:76			Channel 0 Active Nodes	
S:77			Channel 0 Active Nodes	
S:78			Channel 0 Active Nodes	
S:79			Channel 0 Active Nodes	
S:80			Channel 0 Active Nodes	
S:81			Channel 0 Active Nodes	
S:82			Channel 0 Active Nodes	
S:83			DH+ Active Nodes	
S:84			DH+ Active Nodes	
S:85			DH+ Active Nodes	
S:86			DH+ Active Nodes	
T4:0			One Second Flasher Timer	
T4:0/DN			One Second Flasher Timer Complete	
T4:1			One Second Flasher Reset Timer	
T4:1/DN			One Second Flasher Reset Timer Complete	



## Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group
T20:10			Fine Screen #1 At Start Differential Level Delay Timer	
T20:10.PRE			Fine Screen #1 At Start Differential Level Delay Timer Preset	
T20:10.ACC			Fine Screen #1 At Start Differential Level Delay Timer Actual	
T20:10/DN			Fine Screen #1 At Start Differential Level Delay Timer Complete	
T20:10/TT			Fine Screen #1 At Start Differential Level Delay Timer In Cycle	
T20:10/EN			Fine Screen #1 At Start Differential Level Delay Timer Enabled	
T20:12			Fine Screen #1 At Stop Differential Level Delay Timer	
T20:12.PRE			Fine Screen #1 At Stop Differential Level Delay Timer Preset	
T20:12.ACC			Fine Screen #1 At Stop Differential Level Delay Timer Actual	
T20:12/DN			Fine Screen #1 At Stop Differential Level Delay Timer Complete	
T20:12/TT			Fine Screen #1 At Stop Differential Level Delay Timer In Cycle	
T20:12/EN			Fine Screen #1 At Stop Differential Level Delay Timer Enabled	
T20:20			Fine Screen #1 Elapsed Timed Mode Idle Dwell Timer	
T20:20.PRE			Fine Screen #1 Elapsed Timed Mode Idle Dwell Timer Preset	
T20:20.ACC			Fine Screen #1 Elapsed Timed Mode Idle Dwell Timer Actual	
T20:20/DN			Fine Screen #1 Elapsed Timed Mode Idle Dwell Timer Complete	
T20:20/TT			Fine Screen #1 Elapsed Timed Mode Idle Dwell Timer In Cycle	
T20:20/EN			Fine Screen #1 Elapsed Timed Mode Idle Dwell Timer Enabled	
T20:22			Fine Screen #1 Elapsed Timed Mode Run Dwell Timer	
T20:22.PRE			Fine Screen #1 Elapsed Timed Mode Run Dwell Timer Preset	
T20:22.ACC			Fine Screen #1 Elapsed Timed Mode Run Dwell Timer Actual	
T20:22/DN			Fine Screen #1 Elapsed Timed Mode Run Dwell Timer Complete	
T20:22/TT			Fine Screen #1 Elapsed Timed Mode Run Dwell Timer In Cycle	
T20:22/EN			Fine Screen #1 Elapsed Timed Mode Run Dwell Timer Enabled	
T20:30			Impeller #1 Off Delay Dwell Timer	
T20:30.PRE			Impeller #1 Off Delay Dwell Timer Preset	
T20:30.ACC			Impeller #1 Off Delay Dwell Timer Actual	
T20:30/DN			Impeller #1 Off Delay Dwell Timer Complete	
T20:30/TT			Impeller #1 Off Delay Dwell Timer In Cycle	
T20:30/EN			Impeller #1 Off Delay Dwell Timer Enabled	
T20:32			Impeller #1 Run Dwell Timer	
T20:32.PRE			Impeller #1 Run Dwell Timer Preset	
T20:32.ACC			Impeller #1 Run Dwell Timer Actual	
T20:32/DN			Impeller #1 Run Dwell Timer Complete	
T20:32/TT			Impeller #1 Run Dwell Timer In Cycle	
T20:32/EN			Impeller #1 Run Dwell Timer Enabled	
T20:34			Impeller #1 Rest Dwell Timer	
T20:34.PRE			Impeller #1 Rest Dwell Timer Preset	
T20:34.ACC			Impeller #1 Rest Dwell Timer Actual	
T20:34/DN			Impeller #1 Rest Dwell Timer Complete	
T20:34/TT			Impeller #1 Rest Dwell Timer In Cycle	
T20:34/EN			Impeller #1 Rest Dwell Timer Enabled	
T20:36			Compactor #1 Off Delay Dwell Timer	
T20:36.PRE			Compactor #1 Off Delay Dwell Timer Preset	
T20:36.ACC			Compactor #1 Off Delay Dwell Timer Actual	
T20:36/DN			Compactor #1 Off Delay Dwell Timer Complete	
T20:36/TT			Compactor #1 Off Delay Dwell Timer In Cycle	
T20:36/EN			Compactor #1 Off Delay Dwell Timer Enabled	
T20:110			Fine Screen #2 At Start Differential Level Delay Timer	
T20:110.PRE			Fine Screen #2 At Start Differential Level Delay Timer Preset	
T20:110.ACC			Fine Screen #2 At Start Differential Level Delay Timer Actual	
T20:110/DN			Fine Screen #2 At Start Differential Level Delay Timer Complete	
T20:110/TT			Fine Screen #2 At Start Differential Level Delay Timer In Cycle	
T20:110/EN			Fine Screen #2 At Start Differential Level Delay Timer Enabled	
T20:112			Fine Screen #2 At Stop Differential Level Delay Timer	
T20:112.PRE			Fine Screen #2 At Stop Differential Level Delay Timer Preset	
T20:112.ACC			Fine Screen #2 At Stop Differential Level Delay Timer Actual	
T20:112/DN			Fine Screen #2 At Stop Differential Level Delay Timer Complete	
T20:112/TT			Fine Screen #2 At Stop Differential Level Delay Timer In Cycle	
T20:112/EN			Fine Screen #2 At Stop Differential Level Delay Timer Enabled	
T20:120			Fine Screen #2 Elapsed Timed Mode Idle Dwell Timer	
T20:120.PRE			Fine Screen #2 Elapsed Timed Mode Idle Dwell Timer Preset	
T20:120.ACC			Fine Screen #2 Elapsed Timed Mode Idle Dwell Timer Actual	
T20:120/DN			Fine Screen #2 Elapsed Timed Mode Idle Dwell Timer Complete	
T20:120/TT			Fine Screen #2 Elapsed Timed Mode Idle Dwell Timer In Cycle	
T20:120/EN			Fine Screen #2 Elapsed Timed Mode Idle Dwell Timer Enabled	
T20:122			Fine Screen #2 Elapsed Timed Mode Run Dwell Timer	
T20:122.PRE			Fine Screen #2 Elapsed Timed Mode Run Dwell Timer Preset	
T20:122.ACC			Fine Screen #2 Elapsed Timed Mode Run Dwell Timer Actual	
T20:122/DN			Fine Screen #2 Elapsed Timed Mode Run Dwell Timer Complete	
T20:122/TT			Fine Screen #2 Elapsed Timed Mode Run Dwell Timer In Cycle	
T20:122/EN			Fine Screen #2 Elapsed Timed Mode Run Dwell Timer Enabled	
T20:130			Impeller #2 Off Delay Dwell Timer	
T20:130.PRE			Impeller #2 Off Delay Dwell Timer Preset	
T20:130.ACC			Impeller #2 Off Delay Dwell Timer Actual	
T20:130/DN			Impeller #2 Off Delay Dwell Timer Complete	
T20:130/TT			Impeller #2 Off Delay Dwell Timer In Cycle	
T20:130/EN			Impeller #2 Off Delay Dwell Timer Enabled	
T20:132			Impeller #2 Run Dwell Timer	
T20:132.PRE			Impeller #2 Run Dwell Timer Preset	
T20:132.ACC			Impeller #2 Run Dwell Timer Actual	
T20:132/DN			Impeller #2 Run Dwell Timer Complete	
T20:132/TT			Impeller #2 Run Dwell Timer In Cycle	
T20:132/EN			Impeller #2 Run Dwell Timer Enabled	

## Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group
T20:134			Impeller #2 Rest Dwell Timer	
T20:134.PRE			Impeller #2 Rest Dwell Timer Preset	
T20:134.ACC			Impeller #2 Rest Dwell Timer Actual	
T20:134/DN			Impeller #2 Rest Dwell Timer Complete	
T20:134/TT			Impeller #2 Rest Dwell Timer In Cycle	
T20:134/EN			Impeller #2 Rest Dwell Timer Enabled	
T20:136			Compactor #2 Off Delay Dwell Timer	
T20:136.PRE			Compactor #2 Off Delay Dwell Timer Preset	
T20:136.ACC			Compactor #2 Off Delay Dwell Timer Actual	
T20:136/DN			Compactor #2 Off Delay Dwell Timer Complete	
T20:136/TT			Compactor #2 Off Delay Dwell Timer In Cycle	
T20:136/EN			Compactor #2 Off Delay Dwell Timer Enabled	
T23:1			Alarm #1 Delay Timer	
T23:1/DN			Alarm #1 Delay Timer Complete	
T23:2			Alarm #2 Delay Timer	
T23:2/DN			Alarm #2 Delay Timer Complete	
T23:3			Alarm #3 Delay Timer	
T23:3/DN			Alarm #3 Delay Timer Complete	
T23:4			Alarm #4 Delay Timer	
T23:4/DN			Alarm #4 Delay Timer Complete	
T23:5			Alarm #5 Delay Timer	
T23:5/DN			Alarm #5 Delay Timer Complete	
T23:6			Alarm #6 Delay Timer	
T23:6/DN			Alarm #6 Delay Timer Complete	
T23:7			Alarm #7 Delay Timer	
T23:7/DN			Alarm #7 Delay Timer Complete	
T23:8			Alarm #8 Delay Timer	
T23:8/DN			Alarm #8 Delay Timer Complete	
T23:9			Alarm #9 Delay Timer	
T23:9/DN			Alarm #9 Delay Timer Complete	
T23:10			Alarm #10 Delay Timer	
T23:10/DN			Alarm #10 Delay Timer Complete	
T23:11			Alarm #11 Delay Timer	
T23:11/DN			Alarm #11 Delay Timer Complete	
T23:12			Alarm #12 Delay Timer	
T23:12/DN			Alarm #12 Delay Timer Complete	
T23:13			Alarm #13 Delay Timer	
T23:13/DN			Alarm #13 Delay Timer Complete	
T23:14			Alarm #14 Delay Timer	
T23:14/DN			Alarm #14 Delay Timer Complete	
T23:15			Alarm #15 Delay Timer	
T23:15/DN			Alarm #15 Delay Timer Complete	
T23:16			Alarm #16 Delay Timer	
T23:16/DN			Alarm #16 Delay Timer Complete	
T23:17			Alarm #17 Delay Timer	
T23:17/DN			Alarm #17 Delay Timer Complete	
T23:18			Alarm #18 Delay Timer	
T23:18/DN			Alarm #18 Delay Timer Complete	
T23:19			Alarm #19 Delay Timer	
T23:19/DN			Alarm #19 Delay Timer Complete	
T23:20			Alarm #20 Delay Timer	
T23:20/DN			Alarm #20 Delay Timer Complete	
T23:21			Alarm #21 Delay Timer	
T23:21/DN			Alarm #21 Delay Timer Complete	
T23:22			Alarm #22 Delay Timer	
T23:22/DN			Alarm #22 Delay Timer Complete	
T23:23			Alarm #23 Delay Timer	
T23:23/DN			Alarm #23 Delay Timer Complete	
T23:24			Alarm #24 Delay Timer	
T23:24/DN			Alarm #24 Delay Timer Complete	
T23:40			Alarm Display Timer	
T23:40/DN			Alarm Display Timer Complete	
T23:40/TT			Alarm Display Timer In Cycle	
U:3			Analog Scaling	
U:4			Setpoint Limits	
U:5			Fine Screen #1 Control	
U:6			Fine Screen #2 Control	
U:7			Impeller #1 And Conveyor #1 Control	
U:8			Impeller #2 And Conveyor #2 Control	
U:9			Alarms Logic	
U:10			HMI Display Logic	

Instruction Comment Database

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Address	Instruction	Description
B3:0/0	OTE	Always Off

Symbol Group Database

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Group\_Name Description