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C049 1993 SEP 7 TUE 8 25 18 Rev 8.5B Program Blocks Free 19
Unit Number: 1 Scan Interval: 0 / 1
Attached LCUs: 3
Comm Faults on LCUs: 3
Disabled Vars: 1
History Accumulation: 1, 2, 3, 4, 5, 6

R> THIS IS WISCONSIN BELL MANITOWOC C.O. N0049 (414-682-0879)
CURRENT DATE = 9, 7, 1993 TIME = 825
LAST ALARM # 6, DATE = 9.05, & TIME = 123
TYPE: ALARMS TO CHECK CURRENT ALARMS AND CONDITIONS
ALARMDIS TO CHECK FOR DISABLED ALARMS
LCUMENU TO SEE LCU COMMANDS
DEFINE TO SEE SYSTEM DEFINITIONS

***** NOTE *****

AH2 RENTAL SPACE
AH3 POWER ROOM
IS CONTROLLED ON LCU # 2

NOTE - Active chiller selection can now be made thru output #4 (CHLSELECT)
-ON selects roof mounted chiller
+ON selects chiller in penthouse

R>p i all

Drum Index List C049 1993 SEP 7 TUE 8 25 45

1 OA/RA/EA DAMPER CONTROL V2-->DISCALC. (+ON=OPEN,-ON=CLOSE)
2 TEST
3 CHILLER DEMAND (F101=CHILLER)
4 CHILLED WATER PUMPS
5 CHILLER START # 1 NEW # 2 OLD ONE
7 AH1 EVAPORATIVE SPRAY PUMP
8 AH1 BACKUP CONTROL (OFF=BACKUP)
9 ENTHALPY COMPARISON OA.AVAIL
10 POLLING
11 CHILLED WATER COIL SHUT OFF VALVE (50%) (AH1.CWV)
12 STOP HISTORY 5 WHEN FRZTEST = OFF
15 POWER VOLTAGE DIVIDER M.POWER
16 POWER VOLTAGE DIVIDER B.POWER
17 CH.FAIL VOLTAGE DIVIDER CH1.FAIL
18 CH.FAIL VOLTAGE DIVIDER CH2.FAIL
27 ALARM -- MESSAGES
28 ALARM -- COUNTERS
29 ALARM -- DIALER
30 DAYLITE SAVINGS RESET
31 SET HISTORIES ON IF OFF
32 MODEM RESET
33 FAN & MIN OUTSIDE AIR DRUM
35 PCU 1 ACNET CHECK
36 LCU 2 ACNET CHECK
37 Display Menu
M MESSAGE - DRUM
V V VARIABLE DRUM
C COMMAND DRUM
A A DRUM

R>P DR 28

Drum -- 28 ALARM -- COUNTERS

C049 1993 SEP 7 TUE 8 27 3

LINE 10

1A) ((ROOM.ESS < 60) ! (ROOM.ESS > 80)) > AL1
2A) ((ESS%RH < 20) ! (ESS%RH > 60)) > AL2
3A) (V27 > 0) > AL3
4A) (V25 > 0) > AL4
5A) (V26 > 0) > AL5
6A) (F.TROUBL = OFF) > AL6
7A) (V51 > 0) > AL7
8A) (V59 > 0) > AL8
9A) (V24 > 0) > AL9
10A) (V53 > 0) > AL10
11A) ((AH2.RM < 60) ! (AH2.RM > 80)) > AL11

1X) Exit to Line 20 If

LINE 20

1A) ((AH3.RM < 60) ! (AH3.RM > 80)) > AL12
2A) (V52 > 0) > AL13
3A) (AH3.AFS = OFF) > AL14
4A) (HI.H2O = OFF) > AL15
5A) (AIRCOMP = OFF) > AL16
6A) (V54 > 0) > AL17

1X) Exit to Line 10 If

LINE E

1X) Exit to Line 10 If (CL = 0)

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R>ED V

V VARIABLE DRUM

EV>P 26

V26 = ((CH1.FAIL = OFF) + (2 * (CH2.FAIL = OFF)))

EV>C

R>P LA5

[LA5] ?Invalid Variable?

R>P AL5

AL5 = OFF

R>&G

1A) OFF > PMP1_2

1X) Exit to Line 15 If (F101)

2X) Exit to Line 20 If (WKD = WED) & (TOD = 800) & (TM > 5)

LINE 13

1A) ON > PMP1_2

1X) Exit to Line 10 If TM > 4

LINE 15

1A) ON > PMP1_2

1X) Exit to Line 13 If (~F101)

2X) Exit to Line 25 If (WKD = WED) & (TOD = 800) & (TM > 5)

3X) Exit to Line 25 If (~PMP1.DP) & (TS > 60)

LINE 20

1A) OFF > PMP1_2

1X) Exit to Line 25 If (F101)

2X) Exit to Line 10 If (WKD = WED) & (TOD = 800) & (TM > 5)

LINE 23

1A) -ON > PMP1_2

1X) Exit to Line 20 If TM > 4

LINE 25

1A) -ON > PMP1_2

1X) Exit to Line 23 If (~F101)

2X) Exit to Line 15 If (WKD = WED) & (TOD = 800) & (TM > 5)

3X) Exit to Line 15 If (~PMP2.DP) & (TS > 60)

LINE E

1X) Exit to Line 10 If CL = 0

R>P DR 5

Drum -- 5 CHILLER START # 1 NEW # 2 OLD ONE

- C049 1993 SEP 7 TUE 8 26 36

LINE 10

1A) OFF > CHILLERS

1X) Exit to Line 20 If (F101) & (TM > 5)

LINE 20

1A) ON > CHILLERS

1X) Exit to Line 10 If (~F101) & (TM > 20)

LINE E

1X) Exit to Line 10 If (CL = 0)

R>P 1

Assigned Points	on IOU #1	C049	1993 SEP	7 TUE	8 25 55
Symbol	Value	OVR	DIS		
T1	DATEMP	=	59.47		
T2	AH1.RET	=	75.45		
T3	AH1.MIX	=	68.65		
T4	AH1.DIS	=	56.57		
T5	ROOM.ESS	=	75.28		
T6	CH1.CWS	=	60.23		
T7	CH2.CWS	=	135.4		
T8	CWR	=	223.8		
V9	OA.HUMID	=	2.661		
V10	RM.HUMID	=	3.359		
D11	PMP1.DP	=	OFF		
D13	PMP2.DP	=	ON		
V14	CH.MX1	=	1.311		
D15	F.TROUBL	=	ON		
V16	POWER	=	.001		
O1	AH1.DAMP	=	- ON		
O2	PMP1_2	=	- ON		
O3	CHILLERS	=	ON		
O4	CHLSELCT	=	- ON	*	
O5	AH1.EVAP	=	OFF		
O6	AH1.CWV	=	OFF		
O7	OUT7	=	OFF		
O8	AH1.BKUP	=	ON		

R>P DR 3

Drum -- 3 CHILLER DEMAND (F101=CHILLER)
C049 1993 SEP 7 TUE 8 26 12

LINE 10

1A) OFF > F101
1X) Exit to Line 12 If (V100 > 0)

LINE 12

1A) OFF > F101
1X) Exit to Line 10 If (V100 = 0)
2X) Exit to Line 20 If (TM > 10)
3X) Exit to Line 20 If (ESS%RH > 53) ! (OA.AVAIL = OFF)

LINE 20

1A) ON > F101
1X) Exit to Line 10 If (V100 = 0) & (TM > 15)

LINE E

1X) Exit to Line 10 If (CL = 0)

R>P DR 4

Drum -- 4 CHILLED WATER PUMPS
C049 1993 SEP 7 TUE 8 26 20

LINE 10

p i all

Drum Index List C049 1993 SEP 3 FRI 7 27 0

- 1 OA/RA/EA DAMPER CONTROL V2-->DISCALC. (+ON=OPEN,-ON=CLOSE)
- 2 TEST
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- 10 POLLING
- 11 CHILLED WATER COIL SHUT OFF VALVE (50%) (AH1.CWV)
- 12 STOP HISTORY 5 WHEN FRZTEST = OFF
- 15 POWER VOLTAGE DIVIDER M.POWER
- 16 POWER VOLTAGE DIVIDER B.POWER
- 17 CH.FAIL VOLTAGE DIVIDER CH1.FAIL
- 18 CH.FAIL VOLTAGE DIVIDER CH2.FAIL
- 27 ALARM -- MESSAGES
- 28 ALARM -- COUNTERS
- 29 ALARM -- DIALER
- 30 DAYLITE SAVINGS RESET
- 31 SET HISTORIES ON IF OFF
- 32 MODEM RESET
- 33 FAN & MIN OUTSIDE AIR DRUM
- 35 PCU 1 ACNET CHECK
- 36 LCU 2 ACNET CHECK
- 37 Display Menu
- M MESSAGE - DRUM
- V VARIABLE DRUM
- C COMMAND DRUM
- A A DRUM

R>p dr 3

Drum -- 3 CHILLER DEMAND (F101=CHILLER)
C049 1993 SEP 3 FRI 7 27 13

LINE 10

- 1A) OFF > F101
- 1X) Exit to Line 12 If (V100 > 0)

LINE 12

- 1A) OFF > F101
- 1X) Exit to Line 10 If (V100 = 0)
- 2X) Exit to Line 20 If (TM > 10)
- 3X) Exit to Line 20 If (ESS%RH > 53) ! (OA.AVAIL = OFF)

LINE 20

- 1A) ON > F101
- 1X) Exit to Line 10 If (V100 = 0) & (TM > 15)

LINE F

1X) Exit to Line 10 If (CL = 0)

R>p dr 5

Drum -- 5 CHILLER START # 1 NEW # 2 OLD ONE
C049 1993 SEP 3 FRI 7 27 48

LINE 10

1A) OFF > CHILLERS

1X) Exit to Line 20 If (F101) & (TM > 5)

LINE 20

1A) ON > CHILLERS

1X) Exit to Line 10 If (~F101) & (TM > 20)

-15 ~~1X~~

LINE E

1X) Exit to Line 10 If (CL = 0)

R>p 1

Assigned Points on IOU #1 C049 1993 SEP 3 FRI 7 28 2

	Symbol	Value	DVR	DIS
T1	QATEMP	= 60.76		
T2	AH1.RET	= 76.34		
T3	AH1.MIX	= 77.5		
T4	AH1.DIS	= 55.92		
T5	ROOM.ESS	= 75.57		
T6	CH1.CWS	= 51.19		
T7	CH2.CWS	= 106		
T8	CWR	= 129.1		
V9	QA.HUMID	= 2.742		
V10	RM.HUMID	= 3.319		
D11	FMP1.DP	= OFF		
D13	FMP2.DP	= ON		
V14	CH.MX1	= 1.313		
D15	F.TROUBL	= ON		
V16	POWER	= .002		
O1	AH1.DAMP	= - ON		
O2	FMP1_2	= - ON		
O3	CHILLERS	= ON		
O4	CHLCHOIC	= - ON	*	
O5	AH1.EVAP	= OFF		
O6	AH1.CWV	= OFF		
O7	OUT7	= OFF		
O8	AH1.BKUP	= ON		

*DR 6
CHILLER SELECT*

R>p sf

Assigned Flags C049 1993 SEP 3 FRI 7 28 12

FAN.CALL	= ON	MIN.CALL	= ON	QA.AVAIL	= OFF	M.POWER	= ON
B.POWER	= ON	CH1.FAIL	= ON	CH2.FAIL	= ON	AL1	= OFF
AL2	= OFF	AL3	= OFF	AL4	= OFF	AL5	= OFF
AL6	= OFF	AL7	= OFF	AL8	= OFF	AL9	= OFF
AL10	= OFF	AL11	= OFF	AL12	= OFF	AL13	= OFF
AL14	= OFF	AL15	= OFF	AL16	= OFF	AL17	= OFF
AL18	= OFF	AL19	= OFF	AL20	= OFF		

System Defined Flags

HISTOR.1 = ON HISTOR.2 = ON HISTOR.3 = ON HISTOR.4 = ON
HISTOR.5 = ON HISTOR.6 = ON HISTOR.7 = OFF HISTOR.8 = OFF
HISTOR.9 = OFF HISTOR.10 = OFF HISTOR.11 = ?

R>alarms

R> THIS IS WISCONSIN BELL MANITOWOC C.O. NC049 (414-682-0879)

CURRENT DATE = 9 , 3 , 1993 TIME = 728

LAST ALARM # 8 , DATE = 8.3 , & TIME = 954

AL# DESCRIPTION ON/OFF TIMER STATUS ALARM CONDITION

AL#	DESCRIPTION	ON/OFF	TIMER	STATUS	ALARM CONDITION
1	AH1 ROOM TEMP	OFF	0	75.63	<60 OR > 80
2	AH1 ROOM % RH	OFF	0	49.88	<20 OR > 60
3	AH1 AIR FLOW	OFF	0	0	1=SUPPLY 2=RETURN 3=BOTH
4	POWER FAILURE	OFF	0	0	1=MAIN 2=BACKUP
5	CHILLER FAILED	OFF	0	0	1=CH.1 2=CH.2 3=BOTH
6	FIRE TROUBLE	OFF	0	1	OFF
7	CW HI TEMP	OFF	0	0	1=CH.1 2=CH.2 3=BOTH
8	AH1 STATIC	OFF	0	.6919	<.4 INCH OR >4 INCHES
9	CWP FAILED	OFF	0	0	1=Pump1 2=Pump2
10	ACNET ALARM	OFF	0	0	1=PCU1 2=LCU2
11	AH2 ROOM TEMP	OFF	0	74.55	<60 OR > 80
12	AH3 ROOM TEMP	OFF	0	72.6	<60 OR > 80
13	AH2 AIR FLOW	OFF	0	0	1=SUPPLY 2=RETURN 3=BOTH
14	AH3 AIR FLOW	OFF	0	1	OFF
15	HIGH WATER	OFF	0	1	OFF
16	AIR SUPPLY	OFF	0	1	OFF
17	LCU POWER FAIL	OFF	0	0	1=MAIN 2=BACKUP

&p dr 4

I&P 1 ?Invalid Keyword?

R>p dr 4

Drum -- 4 CHILLED WATER PUMPS

C049 1993 SEP 3 FRI 7 29 32

LINE 10

1A) OFF > PMP1_2

1X) Exit to Line 15 If (F101)

2X) Exit to Line 20 If (WKD = WED) & (TOD = 800) & (TM > 5)

LINE 13

1A) ON > PMP1_2

1X) Exit to Line 10 If TM > 4

LINE 15

1A) ON > PMP1_2

1X) Exit to Line 13 If (~F101)

2X) Exit to Line 25 If (WKD = WED) & (TOD = 800) & (TM > 5)

3X) Exit to Line 25 If (~PMP1.DP) & (TS > 60)

LINE 20

1A) OFF > PMP1_2

1X) Exit to Line 25 If (F101)

2X) Exit to Line 10 If (WKD = WED) & (TOD = 800) & (TM > 5)

LINE 23

1A) -ON > PMP1_2

1X) Exit to Line 20 If TM > 4

LINE 25

1A) -DN > PMP1_2

1X) Exit to Line 23 If (*F101)

2X) Exit to Line 15 If (WKD = WED) & (TOD = 800) & (TM > 5)

3X) Exit to Line 15 If (*PMP2.DP) & (TS > 60)

LINE E

1X) Exit to Line 10 If CL = 0

R>&g


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CLEAR FORM C RELAY WATCH DOG WATCH DOG 06:02A 09/03/93 371
ACTIVE FORM C RELAY WATCH DOG WATCH DOG 07:01A 09/03/93 371
CLEAR FORM C RELAY WATCH DOG WATCH DOG 07:02A 09/03/93 371
***** HISTORY REPORT END ***** 07:55A 09/03/93
WISCONSIN BELL - FOND DU LAC ALL SYSTEMS NORMAL 07:56A 09/03/93
PRESS 1=RPTS,2=HIS : 2
PRESS 1=PRINT,2=DISPLAY,3=STEP, 4=RANGE/STATUS : 2
ENTER FIRST EVENT (1 - 400) : 375
ENTER LAST EVENT (375 - 400) : 385
***** HISTORY REPORT BEGIN ***** 07:56A 09/03/93
ACTIVE FORM C RELAY WATCH DOG WATCH DOG 06:01P 09/02/93 371
CLEAR FORM C RELAY WATCH DOG WATCH DOG 06:02P 09/02/93 371
ACTIVE FORM C RELAY WATCH DOG WATCH DOG 07:01P 09/02/93 371
CLEAR FORM C RELAY WATCH DOG WATCH DOG 07:02P 09/02/93 371
ACTIVE FORM C RELAY WATCH DOG WATCH DOG 08:01P 09/02/93 371
CLEAR FORM C RELAY WATCH DOG WATCH DOG 08:02P 09/02/93 371
ACTIVE FORM C RELAY WATCH DOG WATCH DOG 09:01P 09/02/93 371
CLEAR FORM C RELAY WATCH DOG WATCH DOG 09:02P 09/02/93 371
ACTIVE FORM C RELAY WATCH DOG WATCH DOG 11:01P 09/02/93 371
CLEAR FORM C RELAY WATCH DOG WATCH DOG 11:02P 09/02/93 371
ACTIVE FORM C RELAY WATCH DOG WATCH DOG 12:01A 09/03/93 371
***** HISTORY REPORT END ***** 07:56A 09/03/93
WISCONSIN BELL - FOND DU LAC ALL SYSTEMS NORMAL 07:56A 09/03/93

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Alt-Z FOR HELP | TVI 910 | FDX | 2400 E71 | LOG CLOSED | PRINT OFF | ON-LINE
ENTER LXX(D/M)YY, ZXXX OR AXXPY FOR PT. CHANGE (BCKSPC TO ABORT) :
Z238ENTER LXX(D/M)YY, ZXXX OR AXXPY FOR PT. CHANGE (BCKSPC TO ABORT) :
WISCONSIN BELL - FOND DU LAC ALL SYSTEMS NORMAL 08:04A 09/03/93
ENTER LEVEL TWO PASSWORD:
*****PRESS 1=PSYS,2=FSYS,3=PPRG,4=FPRG,5=REMV,6=PSWD,7=MSG,8=HIS :
4ENTER LXX(D/M)YY, ZXXX OR AXXPY FOR PT. INSTALL (BCKSPC TO ABORT) :
Z238ENTER TYPE ID :
WISCONSIN BELL - FOND DU LAC ALL SYSTEMS NORMAL 08:05A 09/03/93
ENTER LEVEL TWO PASSWORD:
*****PRESS 1=PSYS,2=FSYS,3=PPRG,4=FPRG,5=REMV,6=PSWD,7=MSG,8=HIS :
3PRESS 1=TYPID,2=CBE,3=LBL,4=OPTNS,5=AMAP :
2ENTER LXX(D/M)YY, ZXXX OR AXXPY FOR PT. CHANGE (BCKSPC TO ABORT) :
Z238ENTER CONTROL-BY-EVENT :
OR(Z229 Z230 Z231 Z232 Z233 Z234)ENTER LXX(D/M)YY, ZXXX OR AXXPY FOR PT. CHANGE (BC
WISCONSIN BELL - FOND DU LAC ALL SYSTEMS NORMAL 08:07A 09/03/93
PRESS 1=SYS,2=PTREAD,3=ALM,4=TBL,5=DIS, 6=MONON,7=CTLON :
2ENTER LXX(D/M)YY, ZXXX OR AXXPY FOR PT. STATUS (BCKSPC TO ABORT) :
Z238NORMAL REVERSE ZONE WATCH DOG 2238
OR(Z229 Z230 Z231 Z232 Z233 Z234)
WISCONSIN BELL - FOND DU LAC ALL SYSTEMS NORMAL 08:07A 09/03/93
WISCONSIN BELL - FOND DU LAC ALL SYSTEMS NORMAL 08:08A 09/03/93

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C: B175 1993 SEP 3 FRI 8 13 45 Rev 5.5 Program Blocks Free 2426
Unit Number: 1 Attached IOUs: 1 Scan Interval: 0 / 2
History Accumulation: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
FAIL 1
R>

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