THIS IS WISCONSIN BELL MANITOWOC C.O.  NC049  (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 (CHLSELELCT)
          -ON selects roof mounted chiller
          +ON selects chiller in penthouse

Drum Index List  CO49  1993 SEP  7 TUE  8 25 45

1  OA/RA/EA DAMPER CONTROL  \2--->DISCALC. (+ON=OPEN,-ON=CLOSE)
2  TEST                          
3  CHILLER DEMAND (F101=CHILLER)
4  CHILLED WATER PUMPS           
5  CHILLER START # 1 NEW # 2 OLD ONE
6  AH1 EVAPORATIVE SPRAY PUMP    
7  AH1 BACKUP CONTROL (OFF=BACKUP)
8  ENTHALPY COMPARISON OA.AVAIL  
9  POLLING                       
10  CHILLED WATER COIL SHUT OFF VALVE (50%) (AH1.CWV)
12  STOP HISTORY 5 WHEN FR2TEST = 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
Drum -- 28 ALARM -- COUNTERS

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.TROUBLE = 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)

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) & (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) & (TM > 5)
2X) Exit to Line 25 If (WKD = WED) & (TDD = 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) & (TM > 5)
2X) Exit to Line 10 If (WKD = WED) & (TDD = 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) & (TM > 5)
2X) Exit to Line 15 If (WKD = WED) & (TDD = 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
            0049 1973 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)
Assigned Points on IOU #1  C049  1993 SEP 7 TUE  8 25 55

Symbol       Value  QVR DIS
T1            OATURE  =  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 =  3.359
V10           RM.HUMID =  3.359
D11           PMP1.DP = OFF
D13           PMP2.DP = ON
V14           CH.LX1  =  1.311
V15           F.TROUBL = ON
V16           POWER   = .001
D1            AH1.DAMP  = ON
D2            PMP1_2  = - ON
D3            CHILLERS = ON
D4            CHLSELECT = - ON
D5            AH1.EVAP = OFF
D6            AH1.CWV  = OFF
D7            OUT7    = OFF
D8            AH1.BKUP = OFF

R>P DR 3

Drum -- 3  CHILLER DEMAND (F101=CHILLER)

LINE 10

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

LINE 12

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

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

LINE 10
Drum Index List  CO49  1993 SEP 3 FRI 7 27 0

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
9  AH1 BACKUP CONTROL (OFF=BACKUP)
11  ENTENALPY COMPARISON OA.AVAIL
10  POLLING
11  CHILLED WATER COIL SHUT OFF VALVE (50%) (AH1.CWV)
12  STOP HISTORY 5 WHEN FR2TEST = OFF
15  POWER VOLTAGE DIVIDER M.SWIR
16  POWER VOLTAGE DIVIDER R.PWIR
17  CH.FAIL VOLTAGE DIVIDER CH1.FAIL
18  CH.FAIL VOLTAGE DIVIDER CH2.FAIL
27  ALARM ---- MESSAGES
28  ALARM ---- COUNTERS
29  ALARM ---- DIALER
30  DAVLITE SAVINGS RESET
31  SET HISTORIES ON IF OFF
32  MODEM RESET
33  FAN & MIN OUTSIDE AIR DRUM
35  PCU 1 ACMET CHECK
36  LCU 2 ACMET CHECK
37  Dauay Menu
M  MESSAGE - DRUM
V  V VARIABLE DRUM
C  COMMAND DRUM
A  A DRUM

R> p dr 3

Drum -- 3  CHILLER DEMAND (F101=CHILLER)

CO49  1993 SEP 3 FRI 7 27 3

LINE 10
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)
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)

LINE E

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

Assigned Points on IDU #1  C049  1993 SEP 3 FRI  7 28 2
Symbol Value OVR DIS
T1  DATE =  60.76
T2  AH1.RET = 76.34
T3  AH1.MIX = 77.5
T4  AH1.DIS = 55.92
T5  ROOM.ES = 75.57
T6  CH1.CWS = 51.19
T7  CH2.CWS = 106
T8  CWR = 129.1
V9  GA.HUMID = 3.742
V10 RM.HUMID = 3.319
D11 PMP1.DP = OFF
D12 PMP2.DP = ON
V14 CH.MXI = 1.313
D15 F.TROUBL = ON
V16 POWER = .002
D1 AH1.DAMP = ON
D2 PMP1_2 = ON
D3 CHILLERS = ON
D4 CHLCHDIC = ON
D5 AH1.EVAP = OFF
D6 AH1.CWV = OFF
D7 OUT? = OFF
D8 AH1.BKUP = ON
R>p sf

Assigned Flags  C049  1993 SEP 3 FRI  7 28 12
FAN.CALL = ON  MIN.CALL = ON  DA.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
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

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<tr>
<th>AL#</th>
<th>ROOM TEMP</th>
<th>ROOM RH</th>
<th>AIR FLOW</th>
<th>POWER FAILURE</th>
<th>CHILLER FAILED</th>
<th>FIRE TROUBLE</th>
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& p dr 4
[p] 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) ~ON > PMP1_2

1X) Exit to Line 23 If (~F101)
2X) Exit to Line 15 If (WKD = WED) & (TDD = 900) & (TM > 5)
3X) Exit to Line 15 If (~PMP2.DP) & (TS > 60)

LINE E

1X) Exit to Line 10 If CL = 0

R>&g
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 **********

WISCONSIN BELL - FOND DU LAC ALL SYSTEMS NORMAL 07:56A 09/03/93

PRESS 1=RTS, 2=HIS
PRESS 1=PRINT, 2=DISPLAY, 3=STEP, 4=RANGE/STATUS
ENTER FIRST EVENT (1 - 400)
ENTER LAST EVENT (375 - 400)

********** HISTORY REPORT BEGIN **********

ACTIVE FORM C RELAY WATCH DOG   WATCH DOG 06:02P 09/03/93 371
CLEAR FORM C RELAY WATCH DOG   WATCH DOG 06:02P 09/03/93 371
ACTIVE FORM C RELAY WATCH DOG   WATCH DOG 07:01P 09/03/93 371
CLEAR FORM C RELAY WATCH DOG   WATCH DOG 07:02P 09/03/93 371
ACTIVE FORM C RELAY WATCH DOG   WATCH DOG 07:01P 09/03/93 371
CLEAR FORM C RELAY WATCH DOG   WATCH DOG 08:01P 09/03/93 371
ACTIVE FORM C RELAY WATCH DOG   WATCH DOG 08:02P 09/03/93 371
CLEAR FORM C RELAY WATCH DOG   WATCH DOG 09:01P 09/03/93 371
ACTIVE FORM C RELAY WATCH DOG   WATCH DOG 09:02P 09/03/93 371
CLEAR FORM C RELAY WATCH DOG   WATCH DOG 11:01P 09/03/93 371
ACTIVE FORM C RELAY WATCH DOG   WATCH DOG 11:02P 09/03/93 371
ACTIVE FORM C RELAY WATCH DOG   WATCH DOG 12:01P 09/03/93 371

********** HISTORY REPORT END **********

WISCONSIN BELL - FOND DU LAC ALL SYSTEMS NORMAL 07:56A 09/03/93

Alt-Z FOR HELP | TVI 910 | FDX | 2400 E71 | LOG CLOSED | PRINT OFF | ON-LINE
ENTER LXX(D/M)YY, ZXXX OR AXXPYY 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=PSYS, 3=PPRG, 4=FPRG, 5=REMV, 6=PSWD, 7=MSG, 8=HIS
4 ENTER LXX(D/M)YY, ZXXX OR AXXPYY FOR PT. INSTALL (BCKSPC TO ABORT)

WISCONSIN BELL - FOND DU LAC ALL SYSTEMS NORMAL 08:05A 09/03/93

ENTER LEVEL TWO PASSWORD:
********PRESS 1=PSYS, 2=PSYS, 3=PPRG, 4=FPRG, 5=REMV, 6=PSWD, 7=MSG, 8=HIS
3 PRESS 1=TPID, 2=CEB, 3=LDB, 4=OPTNS, 5=AMAP
2 ENTER LXX(D/M)YY, ZXXX OR AXXPYY FOR PT. CHANGE (BCKSPC TO ABORT)

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
2 ENTER LXX(D/M)YY, ZXXX OR AXXPYY FOR PT. STATUS (BCKSPC TO ABORT)
233 NORMAL REVERSE ZONE WATCH DOG
OR(2229 2230 2231 2232 2233 2234) ENTER LXX(D/M)YY, ZXXX OR AXXPYY FOR PT. CHANGE (BCKSPC TO ABORT)

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

P>

C:B175 1993 SEP 3 FRI 8 13 45  Rev 5.5 Program Blocks Free 2426
Unit Number: 1 Attached I0Us: 1 Scan Interval: 0 / 2
History Accumulation: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
FAIL 1
R>