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**Nov. 2002**

## C-A WATER GROUP ALARM MANUAL

**NODE: RPC2**

**ALARM CODE 986-2**  
**RESTORE 986-3**

**LOCATION: BLDG. 911/TE**

**SYSTEM: POWER AMPLIFIER COOLING COMMON ALARM**

**ACTION: DETERMINE WHICH SIGNAL IS IN ALARM AND TURN TO  
ALARM RESPONSE SHEET FROM LIST BELOW**

<u>NODE</u>	<u>SIGNAL NAME</u>	<u>DESCRIPTIO</u>	<u>Page:</u>
RPC2	<u>PAFLO</u>	<u>P.A. Water Flow</u>	<u>986-2-1</u>
RPC2	<u>PATEMP.SUP</u>	<u>P.A. Water Supply Temp.</u>	<u>986-2-2</u>
RPC2	<u>PALVL</u>	<u>P.A. Water Level</u>	<u>986-2-3</u>
RPC2	<u>PARESYS</u>	<u>P.A. Water Resistivity</u>	<u>986-2-4</u>
RPC2	<u>PAMKUP.CNT</u>	<u>P.A. Water Makeup Count - Hi</u>	<u>986-2-5</u>
RPC2	<u>PAMKUP</u>	<u>RFPA System Water Makeup</u>	<u>986-2-6</u>
RPC2	<u>LoAIR.ALARM</u>	<u>P.A. Instrument Air Supply</u>	<u>986-2-7</u>
RPC2	<u>PAPRESS</u>	<u>PA Water Supply Pressure</u>	<u>986-2-8</u>

**NOTE: IF COMMON ALARM IS RECEIVED - CHECK MAKE-  
UP DISPLAY FOR WATER MAKE-UP**

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## ALARM RESPONSE SHEET - POWER AMPLIFIER

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo)
PAFLO	P.A. Water Flow	500/150/125

- ACTION:**
1. Verify low flow  $\leq 150$  GPM
  2. Advise MCR (Pumps will stop @  $\leq 125$  GPM)
  3. Check 911/TE BLDG., AGS Ring, South Wiring Tunnel for major leak
  4. Check other system parameters:
    - a) Level is  $\geq 9$  inches
    - b) Pressure is between 125 and 185 psig
    - c) If actual parameters are, less than or outside limits, advise MCR & turn off pump (P1 or P2)
  5. Place P.A. Water Fill valve in "OFF" position
  6. **If freezing weather Note 3 immediately Cooler coil must be drained**
  7. Note 1 & 3

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Water Group from "Call In" list

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## ALARM RESPONSE SHEET - POWER AMPLIFIER

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
PATEMP.SUP	P.A. Water Supply Temp.	105/100/50 F (HiHi/Hi/Lo)

- ACTION:**
1. Verify temp is outside limits
  2. Check that MAN/AUTO Station to Temp. Control Valve (TCV) is in Auto
    - a) If not, place in AUTO and observe temp.
  3. Verify that cooler fan & spray pump are on for Hi Temp.
    - a) If not, place selector SW in AUTO for both fan and spray pump.
    - b) If spray pump is off check basin level
  4. Verify that cooler fan & spray pump are off for Lo Temp
    - a) If not, place selector SW in AUTO for both fan and spray pump.
  5. Check position of TCV
  6. Note 3 & 1

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Water Group from "Call In" list

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**ALARM RESPONSE SHEET - POWER AMPLIFIER**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b> (Hi/Lo/LoLo)
<b>PALVL</b>	<b>PA Level Mag Water Level</b>	<b>20/5/1 inches</b> <b>(10"-5"=Normal)</b>

- ACTION:**
- 1. Verify level is outside Hi/Lo limits**  
a) Pumps shut down @  $\leq 1''$
  - 2. Inspect magnet enclosure and pump room for leaks**
  - 3. If no leaks check that PAMKUP.OK light is on.**  
**If not: Press Make-Up Reset switch for a few seconds to reset PAMKUP.OK. Check for flow thru deionizer.**  
**If not: Open bypass valve at solenoid until level = 10'', then close bypass valve.**
  - 4. For Hi level check that solenoid bypass is closed.**  
**If not: close valve**  
**If level still rises, close Make-Up valve @ solenoid.**
  - 5. Notes 1 & 3**

- NOTE:**
- 1. Record Actions Taken**
  - 2. MCR = Main Control Room**
  - 3. Call Mech Svcs from "Call In" list**

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## ALARM RESPONSE SHEET - POWER AMPLIFIER

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo) NA/.5/megohm-
PA RESIS	P.A. Water Resistivity	

- ACTION:**
1. Verify resistivity is outside limits
  2. Observe that flow is thru deionizer  $\approx 5\text{GPM}$ 
    - a) Check that manual valves are open
    - b) Light (9,3) should be off
  3. If Lo Alarm remains - Note 3 the following morning.

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Water Group from "Call In" list

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**ALARM RESPONSE SHEET - POWER AMPLIFIER**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b> <b>(Hi/Lo/LoLo)</b> <b>20 GAL in 10 min</b>
<b>MKUP.CNT</b>	<b>P.A. Water Make-up Counts</b>	

- ACTION:**
- 1. Check 911/TE Pump Room, AGS Ring, South Wiring Tunnel for leak(s)**
  - 2. Advise MCR, isolate leaking device. (If MKUP  $\geq$ 100 Gal in 10 Min., Pumps will shut down after 3 min. delay)**
  - 3. Notes 1 & 3**

- NOTE:**
- 1. Record Actions Taken**
  - 2. MCR = Main Control Room**
  - 3. Call Water Group from "Call In" list**

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**ALARM RESPONSE SHEET - POWER AMPLIFIER**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b> <b>ON/OFF</b>
<b>MKUP.OUT</b>	<b>RFPA Water Make-up</b>	

- ACTION:**
1. Verify Make-Up is ON.
  2. If make-up is verified follow [C-A-OPM 2.19](#)

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Water Group from "Call In" list

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**ALARM RESPONSE SHEET - POWER AMPLIFIER**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b> <b>(Hi/Lo/LoLo)</b>
<b>LoAIR.ALRM</b>	<b>P.A. Instrument Air Supply</b>	<b>≤50 psig</b>

- ACTION:**
- 1. Verify Low press**
  - 2. Call Plant Engineering Site Shift Supervisor at x4174, cell – 872-8988 or C/W desk x4284 during off hours.**
  - 3. Note 1 & 3 the next regular workday**

- NOTE:**
- 1. Record Actions Taken**
  - 2. MCR = Main Control Room**
  - 3. Call Water Group from "Call In" list**

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**ALARM RESPONSE SHEET - POWER AMPLIFIER**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b> (Hi/Lo/LoLo) 200/50 psig
<b>PAPRESS</b>	<b>P.A. Water Supply Pressure</b>	

- ACTION:**
- 1. Verify pressure, discharge & suction**
  - 2. Check for large leaks, Ring, S. wiring tunnel, MER**
  - 3. If suction is close to zero advise MCR that system will shut down @  
≈zero**
  - 4. If hi press, check:**
    - a) for closed valves**
    - b) differential press @ bag fitter > 5 psig**
- 3. Note 3**

- NOTE:**
- 1. Record Actions Taken**
  - 2. MCR = Main Control Room**
  - 3. Call Water Group from "Call In" list**

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# ALARM RESPONSE SHEET – FAST PULSE QUAD

**NODE: RPC2**

**ALARM CODE      986-6**  
**RESTORE            986-7**

**LOCATION:            BLDG. 911/TE**

**SYSTEM:            FAST PULSE QUAD COOLING SYSTEM COMMON ALARM**

**ACTION:            DETERMINE WHICH SIGNAL IS IN ALARM AND TURN TO  
ALARM RESPONSE SHEET FROM LIST BELOW**

<b><u>NODE</u></b>	<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>Page No.:</u></b>
RPC2	FPQPRES.SUP	FPQ Water Pressure	<u>986-6-1</u>
RPC2	FPQTEMP.SUP	FPQ Water Supply Temp.	<u>986-6-2</u>
RPC2	FPQLVL	FPQ Water Level	<u>986-6-3</u>
RPC2	FPQRESIS	FPQ Water Resistivity	<u>986-6-4</u>
RPC2	FPQMKUP.CNT	FPQ Water Makeup Count - Hi	<u>986-6-5</u>
RPC2	FPQMKUP.ALARM	FPQ System Water Makeup	<u>986-6-6</u>
RPC2	LoAIR.ALARM	FPQ Instrument Air Supply	<u>986-6-7</u>
RPC2	FPQPMP.CNTRL	FPQ Pump (On/Off)	<u>986-6-8</u>

**NOTE:            IF COMMON ALARM IS RECEIVED - CHECK  
MAKE-UP DISPLAY FOR WATER MAKE-UP**

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## ALARM RESPONSE SHEET – FAST PULSE QUAD

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Lo/Hi) 125/175
FPQPRES.SUP	Fast Quad Cooling System - Low Press	(normal = 150)

**Action:**

1. Verify low pressure
2. Check that pressure control valve (PCV) is closed
  - a) If not, close manual valve at PCV until system press  $\approx$ 150 psig
  - b) Note 1 & 3 the next regular workday.
2. Check for major leak in AGS ring & "18" Houses and isolate
4. If pump discharge press  $\leq$ 100
  - a) Advise MCR and turn off pump
  - b) Note 1 & 3
5. Verify Hi Pressure condition
6. Crack open manual bypass valve, around press control valve, to maintain 150 psig
  - a) If successful, Note 1 & 3 the next regular workday
  - b) If not, Note 1 & 3

**NOTE:**

1. Record Actions Taken
2. MCR = Main Control Room
3. Call Water Group from "Call In" list

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**ALARM RESPONSE SHEET – FAST PULSE QUAD**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b> <b>(Lo/Hi/HiHi)</b> <b>65/90/100</b>
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<b>FPQTEMP.SUP</b>	<b>Fast Quad Cooling System - Temp</b>	
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- Action:**
- 1. Verify high temperature**
  - 2. Open bypass valve around temp control valve and throttle to maintain system temp of 80 F**
  - 3. If successful, Note 1 & 3 the next regular morning**  
**a)If not, Note 1 & 3**

- Notes:**
- 1. Record Actions Taken**
  - 2. MCR = Main Control Room (x 4662)**
  - 3. Call Water Group from "Call In" List**

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## ALARM RESPONSE SHEET – FAST PULSE QUAD

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo) 25/5/0.5"
FPQLVL	Fast Quad Cooling System - Lo Level	
<b><u>Action:</u></b>	<ol style="list-style-type: none"> <li>1. Verify low level</li> <li>2. Check level trend and Mkup totals on Water Group PC</li> <li>3. If low level &lt; 9"               <ol style="list-style-type: none"> <li>a) Notify Control Room that Pumps will shutdown @ &lt;1"</li> <li>b) Check for leaks in the "18 houses" and the bldg. 913 enclosure.</li> </ol> </li> <li>4. Reset alarm</li> </ol>	
<b><u>Notes:</u></b>	<ol style="list-style-type: none"> <li>1. Record Actions Taken</li> <li>2. MCR = Main Control Room (x 4662)</li> <li>3. Call Water Group from "Call In" List</li> </ol>	

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## ALARM RESPONSE SHEET – FAST PULSE QUAD

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u> (normal = 0.75 – 1.25)	<u>ALARM LIMITS</u> (Lo) ≤0.5 Megohm
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<b>FPQRESIS</b>	<b>Fast Quad Cooling System - Low Resistivity</b>
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**Action:**

1. Verify low resistivity
2. Check deionizer flow meter for 3 - 5 gpm flow
  - a) If no flow, check that deionizer manual valves are open
  - b) If flow exists check deionizer output with meter.
3. Note 1 & Note 3 the next normal workday

**Notes:**

1. Record Actions Taken
2. MCR = Main Control Room (x 4662)
3. Call Water Group from "Call In" List

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## ALARM RESPONSE SHEET – FAST PULSE QUAD

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo) 20 GALin 10 min
MKUP.CNT	FPQ Water Make-up Flow	
<b><u>ACTION:</u></b>	<ol style="list-style-type: none"> <li>1. Check 911/TE Pump Room, AGS Ring, South Wiring Tunnel for leak(s)</li> <li>2. Advise MCR, isolate leaking device. (If MKUP <math>\geq</math>50 Gal in 10 Min., Pumps will shut down after 3 min. delay)</li> <li>3. Notes 1 &amp; 3</li> </ol>	
<b><u>Notes:</u></b>	<ol style="list-style-type: none"> <li>1. Record Actions Taken</li> <li>2. MCR = Main Control Room (x 4662)</li> <li>3. Call Water Group from "Call In" List</li> </ol>	

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## ALARM RESPONSE SHEET – FAST PULSE QUAD

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> ON/OFF
MKUP.OUT	FPQ Water Make-up	

- ACTION:**
1. Verify Make-Up is ON.
  2. Reset alarm.

- Notes:**
1. Record Actions Taken
  2. MCR = Main Control Room (x 4662)
  3. Call Water Group from "Call In" List

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## ALARM RESPONSE SHEET – FAST PULSE QUAD

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo) ≤50 psig
LoAIR.ALARM	FPQ Instrument Air Supply	

- ACTION:**
1. Verify Low press
  2. Call Plant Engineering's Site Shift Supervisor @ x 4174, pp0519 or x 4284
  4. Note 1 & 3 the next regular workday

- Notes:**
1. Record Actions Taken
  2. MCR = Main Control Room (x 4662)
  3. Call Water Group from "Call In" List

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**ALARM RESPONSE SHEET – FAST PULSE QUAD**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b> <b>ON/OFF</b>
<b>FPQPMP.CNTRL</b>	<b>FPQ PUMP CONTROL OFF</b>	

- ACTION:**
- 1. Verify Pump is off.**
  - 2. Check for previous FPQ system alarms to determine reason for trip.**
  - 3. If no level / make-up or pressure problems are found reset breaker and try to restart pump. (FPQ control panel has a make-up reset that may need to be reset)**
  - 4. If pump will still not start notes 1 & 3.**

- Notes:**
- 1. Record Actions Taken**
  - 2. MCR = Main Control Room (x 4662)**
  - 3. Call Water Group from "Call In" List**

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**NODE: RPC2**

**ALARM CODE      986-F**  
**RESTORE          986-C**

**LOCATION:            BLDG. 911/TE**

**SYSTEM:            COOLER SYSTEM COMMON ALARM**

**ACTION:            DETERMINE WHICH SIGNAL IS IN ALARM AND TURN TO  
ALARM RESPONSE SHEET FROM LIST BELOW**

<u>NODE</u>	<u>SIGNAL NAME</u>	<u>DESCRIPTIO</u>	<u>Page:</u>
RPC2	<a href="#">CLRMKUP.CNT</a>	Cooler Sys. Make-up Count	<a href="#">986-F-1</a>
RPC2	<a href="#">CLRLVL</a>	Cooler Sys. Level	<a href="#">986-F-2</a>
RPC2	<a href="#">PAPIPNG.LOTEMP.ALARM</a>	P.A. Piping Outdoors – Lo Temp	<a href="#">986-F-3</a>
RPC2	<a href="#">CLRPIPNG.LOTEMP.ALARM</a>	Fluid Cooler Outdoor Piping Lo Temp	<a href="#">986-F-4</a>
RPC2	<a href="#">CLRFL0</a>	Cooler Sys. Low Flow	<a href="#">986-F-5</a>
RPC2	<a href="#">CLRTEMP.SUP</a>	Cooler Sys. Temp	<a href="#">986-F-6</a>
RPC2	<a href="#">CLRBASIN.TEMP.LO</a>	Cooler Basin Lo Temp	<a href="#">986-F-7</a>
RPC2	<a href="#">CLRBASIN.LVL</a>	Cooler Basin Level	<a href="#">986-F-8</a>

**NOTE:            IF COMMON ALARM IS RECEIVED - CHECK MAKE-  
UP DISPLAY FOR WATER MAKE-UP**

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**ALARM RESPONSE SHEET – COOLER SYSTEM**

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/HiHi) 20/50 Gal.
CLRMKUP.CNT	Cooler System Water Make-up Flow	

- ACTION:**
1. Check 911/TE Pump Room, and Cooler for leaks.
  2. Advise MCR, isolate leaking device. (If MKUP  $\geq$ 50 Gal in 10 Min., Pumps will shut down after 3 min. delay)
  3. Notes 1 & 3

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Water Group from "Call In" list

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## ALARM RESPONSE SHEET – COOLER SYSTEM

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo)
CLRLVL	Cooler System Level	25/6/1 inches (15" - 9"=Normal)

- ACTION:**
1. Verify level is outside Hi/Lo limits
    - a) Pumps shut down @  $\leq 1"$
  2. Inspect B951, pump room and Cooler for leaks
  3. If no leaks check that CLRMKUP.OK light is on.  
If not: Press Make-Up Reset switch for a few seconds to reset  
If not: Open bypass valve at solenoid until level = 15", then close bypass valve.
  4. For Hi level check that solenoid bypass is closed.  
If not: close valve  
If level still rises, close Make-Up valve @ solenoid.
  5. Notes 1 & 3

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Mech Svcs from "Call In" list

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**ALARM RESPONSE SHEET – COOLER SYSTEM**

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
PAPIPNG.Lo TEMP.ALARM	P.A. Piping Outdoor - Lo Temp.	$\leq 40^{\circ}\text{F}$

- ACTION:**
1. Verify that Lo Temp condition exists.
  2. Check that power to heat tracing is on.
    - a) If not: Turn on circuit
    - b) If on: raise thermostat to energize heat trace (TS-2)
  3. Verify that water flow to Cooler exists
    - a) If not, check if cooler pump is running.
  4. Notes 1 & 3

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Mech Svcs from "Call In" list

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**ALARM RESPONSE SHEET – COOLER SYSTEM**

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
CLRPIPNG.Lo TEMP.ALARM	Make up & DrainPiping - Outdoor Temp.	≤ 40°F

- ACTION:**
1. Verify that Lo Temp condition exists.
  2. Check that power to heat tracing is on.
    - a) If not: Turn on circuit
    - b) If on: raise thermostat to energize heat trace (TS-2)
  3. If System is Off – is the system drained? Note 3.
  4. Notes 1 & 3

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Mech Svcs from "Call In" list

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**ALARM RESPONSE SHEET – COOLER SYSTEM**

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Lo/LoLo)
CLRFLO	Cooler System Water Flow	150/125

- ACTION:**
1. Verify low flow  $\leq 150$  GPM
  2. Advise MCR (Pumps will stop @  $\leq 125$  GPM) and RFPA cooling will be affected
  3. Check 911/TE BLDG., and Cooler for leaks.
  4. Check other system parameters:
    - a) Level is  $\geq 9$  inches
    - b) Pressure is between 40 and 60 psig
    - c) If actual parameters are, less than or outside limits, advise MCR, Note 3.
  5. **If  $< 32^{\circ}\text{F}$  outside air Temp, Note 3 immediately, Cooler coil must be drained**
  6. Note 1 & 3

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Water Group from "Call In" list

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**ALARM RESPONSE SHEET – COOLER SYSTEM**

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
CLRTEMP.SUP	Cooler System Water Supply Temp.	105/85/42° F (HiHi/Hi/Lo)

- ACTION:**
1. Verify temp is outside limits
  2. Verify that cooler fan & spray pump are on for Hi Temp.
    - a) If not, place selector SW in AUTO for both fan and spray pump.
    - b) If spray pump is off check basin level > 14 inches.
    - c) Notify MCR that the PA cooling will be affected.
  3. Verify that cooler fan & spray pump are off for Lo Temp
    - a) If not, place selector SW in AUTO for both fan and spray pump.
  4. Note 3 & 1

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Water Group from "Call In" list

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**ALARM RESPONSE SHEET – COOLER SYSTEM**

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
CLRBASIN.TEMP.LO	Cooler Basin Water Temp.	$\leq 40^{\circ}\text{F}$

- ACTION:**
1. Verify that Lo Temp condition exists.
  2. If temp < 40 check that the basin heater is on and operational.
  3. Notes 1 & 3

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Mech Svcs from "Call In" list

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## 986-F-8

### ALARM RESPONSE SHEET – COOLER SYSTEM

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u> (normal = 14 – 16)	<u>ALARM LIMITS</u> (Lo/LoLo) 12/10 inches
CLRBASIN.LVL	Fluid Cooler Basin Water Level	

- ACTION:**
1. Verify level is below Lo limits.
  2. Check that Manual make up bypass valve is open.
    - a) If not, open.
  3. Verify level returns to normal.
  4. Notes 1 & 3

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room
  3. Call Mech Svcs from "Call In" list

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