



## 815.0-1

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (HiHi/Hi/Lo)
<b>FNXTEMP.SUP</b>	<b>FNX Mag Water Supply Temp. (62°f = normal)</b>	<b>100/80/50° F</b>

- ACTION:**
1. Verify temp is outside limits
  2. Check that MANUAL/AUTO Switch for FNX Magnet Temp. Control Valve (TCV) is in Auto position.
    - a) If not, place in AUTO and observe temp.
  3. Verify that tower water temp is within limits. 68/85°F Summer  
38/65°F Winter.
    - a) If not, see that response sheet.  
Verify that tower water flow is within limits  $\geq 1000$  GPM.  
If not, see that response sheet.
  4. For HiTemp alarm TCV indicator should be in Max Cooling Position.
    - a) If not, place AUTO/MANUAL selector in manual and raise output in 5 psi increments until temp is 5° below hi limit.
    - b) Check that tower fan & tower pumps are in Auto and are running.  
If not: Check and fill basin if necessary, place tower fans & pumps in auto and observe that the fan cycles on. If not try manual.
    - c) Observe system temp and adjust.
    - d) Advise MCR that Pumps will shut down 3 mins after system supply reaches 100°f.
  5. For lo temp alarm TCV indicator should be in the bypass position.  
If not: Check that selector is in auto.
  6. Note 3 & 1

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

[Back to Top](#)

## 815.0-2

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo)
<b>FNXPRES.SUP</b>	<b>FNX Magnet Supply Pressure (90 psig = Normal)</b>	<b>130/50</b>

- ACTION:**
- 1. Verify press is outside limits.**
  - 2. Check that Selector Switch to Press. Control Valve (TCV) is in auto.**
    - a) If not: place in Auto and observe press.**
  - 3. If  $\leq 50$  check that man/auto selector is in auto & observe press for a few min. If still low switch to manual and lower pressure output in 5 psi increments until press = 90 psig.**
  - 4. If  $\geq 130$  check that selector is in auto and observe for a few min. If still high place selector in manual and increase output to valve until press  $\approx 90$  psig.**
  - 5. Note 3 & 1**

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

## 815.0-3

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo)
FNXLVL	FNX Mag Water Level (15" - 9"=Normal)	25/9/1 inches

- ACTION:**
1. Verify level is outside Hi/Lo limits  
a) Pumps shut down @  $\leq 1"$
  2. Inspect B1008 and pump room for leaks
  3. If no leaks check that FNXMLKUP.OK light is on.  
If not: Press Make-Up Reset switch for a few seconds to reset FNXMLKUP.OK. Check for flow thru deionizer.  
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

[Back to Top](#)

## 815.0-4

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo)
<b>MAGFLO</b>	<b>FNX Magnet Water Flow (300-600 GPM=Normal)</b>	<b>750/150/100 GPM</b>

- ACTION:**
- 1. Verify Low flow  $\leq 250$  GPM**
  - 2. Advise MCR (Pumps will stop @  $\leq 150$  GPM)**
  - 3. Check B1008 Pump Room, and Exp Hall for leaks.**
  - 4. Check other system parameters:  
a) Pressure is  $\approx 90$  psig  
If less than 50: check that manual/auto selector is in Auto.  
If greater than 130: check manual/auto selector is in Auto. If press remains high switch to manual and raise output press in 5 psi increments until system press  $\leq 90$ psi**
  - 5. Note 3 & 1**

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

[Back to Top](#)

## 815.0-5

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
FNXRESIS	FNX Mag Water Resistivity	(Lo/LoLo) ≤5/megohm-cm (.5 - 1=Normal)

- ACTION:**
1. Verify resistivity is below low limits
  2. Observe that flow is thru deionizer
  3. Observe deionizer output resistivity (>2 megohm-cm)
  4. Observe that system resistivity rises above .5 megohm
  5. If Lo Alarm remains - Note 3 the following morning.

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

[Back to Top](#)

## 815.0-6

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
LOAIR.ALARM	Low Compressed Air	(Lo) <50 psig

- ACTION:**
1. Verify compressed air pressure with press gauge.
  2. Check that manual valves are open.
  3. Check compressor in B1008 Support Building.
    - a) If compressor is off - Call Plant Engineering Site Shift Supervisor at x4174, cell – 872-8988 or C/W desk x4284 during off hours.
  4. Notes 1 & 3

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

[Back to Top](#)

815.0-7

ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (HiHi/Hi)
FNXMKUP.CNT	FNX Mag Water Make-up Flow	150/100Gal in 10min

- ACTION:**
1. Check B1008 Pump Room, Assembly & Exp Hall for leaks.
  2. If HiHi, advise MCR Pumps will shut off in 3 min.
  3. Advise MCR, isolate leaking device.
  4. Notes 1 & 3

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

[Back to Top](#)

## 815.0-8

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo)
ELECFLO.LO	FNX Electronics Water Flow	700/150/100

- ACTION:**
1. Verify low flow  $\leq$  150 GPM
  2. Check B1008 Pump Room & Exp Hall for major leak or closed valves
  3. Check other system parameters:
    - a) Pressure is  $\approx$  90 psig
    - b) FNX Mag Flow = 200 - 600 gpm.
  4. Note 3 & 1

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

[Back to Top](#)

**NODE: RPC 8**

**ALARM CODE            815.2**

**RESTORE                815.3**

**LOCATION:    BLDG. 1008C**

**SYSTEM:        PHENIX POWER SUPPLY COMMON ALARM  
(COMNALRM.PS)**

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

<b>NODE</b>	<b>SIGNAL NAME</b>	<b>DESCRIPTION</b>	<b>PAGE NO.</b>
RPC 8	<u>PSTEMP.SUP</u>	<u>Power Supply Water Supply Temp</u>	<u>815.2-1</u>
RCP 8	<u>PSPRES.SUP</u>	<u>Power Supply Water Supply Press</u>	<u>815.2-2</u>
RCP 8	<u>PSLVL</u>	<u>Power Supply Water Level</u>	<u>815.2-3</u>
RCP 8	<u>PSFLO</u>	<u>Power Supply Water Flow</u>	<u>815.2-4</u>
RCP 8	<u>PSRESIS</u>	<u>Power Supply Water Resistivity</u>	<u>815.2-5</u>
RCP 8	<u>PSMKUP.CNT</u>	<u>Power Supply Water High Mkup</u>	<u>815.2-6</u>

[Back to Top](#)

## 815.2-1

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (HiHi/Hi/Lo)
PSTEMP.SUP	Power Supply Water Supply Temp.	105/100/60°F (≈85°F = normal)

- ACTION:**
1. Verify temp is outside limits
  2. Check that MANUAL/AUTO Switch for Power Supply Temp. Control Valve (TCV) is in Auto position.
    - a) If not, place in AUTO and observe temp.
  3. Verify that tower water temp is within limits. 68/85°F Summer  
38/65°F Winter.
    - a) If not, see that response sheet.
  4. Verify that tower water flow is within limits  $\geq 1000$  GPM.
    - a) If not, see that response sheet.
  5. For HiTemp alarm TCV indicator should be in Max Cooling Position.
    - a) If not, place AUTO/MANUAL selector in manual and lower output in 5 psi increments until temp is 5° below hi limit.
    - b) Check that pump is in Auto and is running.  
If not: NOTE 3.
    - c) Advise MCR that Pumps will shut down 3 mins after system supply reaches 105°f.
  6. For lo temp alarm TCV indicator should be in the closed position.  
If not: Check that the manual/auto selector is in auto.
  7. Note 3 & 1

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

[Back to PS Menu](#)

[Back to Top](#)

## 815.2-2

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo)
PSPRES.SUP	Power Supply Water Pressure	150/75 (100 psig = Normal)

- ACTION:**
1. Verify press is outside limits.
  2. Check that Selector Switch to Press. Control Valve (PCV) is in auto.
    - a) If not: place in Auto and observe press.
  3. If  $\leq 75$  check that man/auto selector is in auto & observe press for a few min. If still low switch to manual and lower pressure output in 5 psi increments until press  $\approx 100$ .
  4. If  $\geq 150$  check that selector is in auto and observe for a few min. If still high place selector in manual and increase output to valve until press  $\approx 100$ .
  5. Note 3 & 1

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

[Back to PS Menu](#)

[Back to Top](#)

## 815.2-3

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo)
PSLVL	Power Supply Water Level	25/6/1 inches (9"-15"=Normal)

- ACTION:**
1. Verify level is outside Hi/Lo limits
    - a) Pumps shut down @  $\leq 1"$
  2. Inspect B1008, pump room and Power Supply mezzanine for leaks.
  3. For Low Level:
    - If no leaks check that PSMKUP.OK light is on.
    - If not: Press Make-Up Reset switch for a few seconds to reset MKUP.OK.
    - Check for flow thru deionizer.
    - 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

[Back to PS Menu](#)

[Back to Top](#)

## 815.2-4

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo)
PSFLO	Power Supply Water Flow	150/50/25 (≈100 GPM Normal)

- ACTION:**
1. Verify low flow  $\leq 50$  GPM
  2. Advise MCR (Pumps will stop @  $\leq 25$  GPM)
  3. Check B1008 Pump Rm, Assembly Build. Exp Hall and Power Supply mezzanine for major leak.
  4. Check other system parameters:
    - a) Level is  $\geq 9$  inches
    - b) Pressure is between 100 and 130 psig
  5. Note 3 & 1

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

[Back to PS Menu](#)

[Back to Top](#)

## 815.2-5

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
PSRESIS	Power Supply Water Resistivity	(Lo) .5/megohm-cm (.75-1.25=Normal)

- ACTION:**
1. Verify resistivity is below low limits
  2. Observe that flow is thru deionizer
  3. Observe deionizer output resistivity (>2 megohm-cm)
  4. Observe that system resistivity rises above .5 megohm
  5. If Lo Alarm remains - Note 3 the following morning.

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

[Back to PS Menu](#)

[Back to Top](#)

## 815.2-6

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/HiHi)
PSMKUP.CNT	Power Supply Water Make-up Flow	50/100 GAL in 10 min

- ACTION:**
1. Check B1008 Pump Room and Power Supply mezzanine for leaks.
  2. Advise MCR that pumps will shut down after 3 min. If HiHi MKUP occurs
  3. Advise MCR, isolate leaking device
  4. Notes 1 & 3

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

[Back to PS Menu](#)

[Back to Top](#)

**NODE: RPC 8**

**ALARM CODE        815.4**  
**RESTORE            815.5**

**LOCATION:    BLDG. 1008C**

**SYSTEM:        PHENIX CHILLED WATER COMMON ALARM**  
**(COMNALR.CHW)**

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

<b>RCP 8</b>	<b><u>CHWTEMP.SUP</u></b>	<b><u>Chilled Water Supply Temp</u></b>	<b><u>815.4-1</u></b>
<b>RCP 8</b>	<b><u>CHWPRES.SUP</u></b>	<b><u>Chilled Water Supply Press</u></b>	<b><u>815.4-2</u></b>
<b>RCP 8</b>	<b><u>CHWLVL</u></b>	<b><u>Chilled Water Level</u></b>	<b><u>815.4-3</u></b>
<b>RCP 8</b>	<b><u>CHWFLO</u></b>	<b><u>Chilled Water Flow</u></b>	<b><u>815.4-4</u></b>
<b>RCP 8</b>	<b><u>CHWMKUP.CNT</u></b>	<b><u>Chilled Water High Mkup</u></b>	<b><u>815.4-5</u></b>

**[Back to Top](#)**

## 815.4-1

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (HiHi/Hi/Lo)
CHWTEMP.SUP	Chilled Water Supply Temp.	85/65/38°f (≤45-50f = normal)

- ACTION:**
1. Verify temp is outside limits
  2. Verify that chilled water flow is within limits  $\geq 300$
  3. GPM.
    - a) If not, see that response sheet.
  3. For HiTemp alarm:
    - a) Check that pump is in Auto and is running.  
If not: Call Plant Engineering Site Shift Supervisor at x4174, cell – 872-8988 or C/W desk x4284 during off hours.
  4. For lo temp alarm:  
If not: Same as 5a.
  5. Note 3 & 1

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

[Back to CW menu](#)

[Back to Top](#)

## 815.4-2

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo)
CHWPRES.SUP	Chilled Water Pressure	55/25 psig (40-50 psig = Normal)

- ACTION:**
1. Verify press is outside limits.
  2. Check that Pump is running.
  3. Check that level = 9 -15 inches.
  4. Check that flow is  $\approx$ 750 gpm.
  5. Check that appropriate valves are open.
  6. Note 3 & 1

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

[Back to CW menu](#)

[Back to Top](#)

## 815.4-3

### ALARM RESPONSE SHEET - PHENIX

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

- ACTION:**
1. Verify level is outside Hi/Lo limits
    - a) Pumps shut down @  $\leq 1"$
  2. Inspect B1008 pump room for leaks.
  3. For Low Level:
    - If no leaks check that CHWMKUP.OK light is on.
    - If not: Press Make-Up Reset switch for a few seconds to reset CHWMKUP.OK. Check for level increase.
    - 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

[Back to CW menu](#)

[Back to Top](#)

## 815.4-4

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo)
CHWFLO	Chilled Water Flow	875/300/100 (≈750 GPM Normal)

- ACTION:**
1. Verify low flow  $\leq 300$  GPM
  2. Advise MCR (Pumps will stop @  $\leq 100$  GPM)
  3. Check B1008 Pump Room for major leak.
  4. Check other system parameters:
    - a) Level is  $\geq 9$  inches
    - b) Pressure is between 40 and 50 psig
  5. Note 3 & 1

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

[Back to CW menu](#)

[Back to Top](#)

## 815.4-5

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/HiHi)
CHWMKUP.CNT	Chilled Water Make-up Flow	100/200 GAL in 10 min

- ACTION:**
1. Check B1008 Pump Room for leaks.
  2. Advise MCR that pumps will shut down after 3 min. If HiHi MKUP occurs
  3. Advise MCR, isolate leaking device
  4. Notes 1 & 3

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

[Back to CW menu](#)

[Back to Top](#)

**NODE: RPC 8**

**ALARM CODE        815.6**  
**RESTORE            815.7**

**LOCATION:    BLDG. 1008C**

**SYSTEM:        PHENIX TOWER COMMON ALARM**  
**(COMNALRM.TWR)**

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

RCP 8	<u>TWRTEMP.SUP</u>	<u>Tower Water Supply Temp</u>	<u>815.6-1</u>
RCP 8	<u>TWRPRES.SUP</u>	<u>Tower Water Supply Press</u>	<u>815.6-2</u>
RCP 8	<u>TWRLVL</u>	<u>Tower Water Level</u>	<u>815.6-3</u>
RCP 8	<u>TWRFLO</u>	<u>Tower Water Flow</u>	<u>815.6-4</u>
RCP 8	<u>TWRCOND</u>	<u>Tower Water Conductivity</u>	<u>815.6-5</u>
RCP 8	<u>TWRMKUP.LOTEMP.ALARM</u>	<u>Tower Water Mkup Low Temp</u>	<u>815.6-6</u>
RCP 8	<u>TWRFAN.VIB.NI</u>	<u>Tower Fan Hi Vibration</u>	<u>815.6-7</u>

**NOTE:    IF ALARM IS INTERMITTENT,**  
**CHECK MKUP DISPLAY & TREND**  
**FOR WATER LOSS**

[Back to Top](#)

## 815.6-1

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo)
TWRTEMP.SUP.	Tower Water Supply Temp	85/60°f - Summer 65/38°f – Winter

- ACTION:**
1. Verify temp is outside limits
  2. Check that tower fan switch is in Auto
    - a) If not, place switch in Auto
  3. For HiAlarm fan should be in HiSpeed and water flow to top of tower.
    - a) If not, redirect water to top with tower valve
    - b) If fan does not operate in Auto, place fan switch in manual, slow speed and observe temp
    - c) Place in HiSpeed fwd only if temp remains above 85°F
  4. For LoAlarm fans should be off.
  5.
    - a) Summer alarms – Chiller On
    - b) Winter alarms – Chiller Off
  6. Notes 1 & 3

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

[Back to Tower menu](#)

[Back to Top](#)

## 815.6-2

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo)
TWRPRES.SUP	Tower Water Supply Pressure	75/15 ( $\approx$ 30 psig = Normal)

- ACTION:**
1. Verify press is outside limits.
  2. Check that Tower Pump is running.
  3. Check that flow  $\approx$ 1200gpm.
  4. Check that appropriate valves are open.
  5. For low Press check for leaks in Pump Room and at tower.
  6. Note 3 & 1

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

[Back to Tower menu](#)

[Back to Top](#)

## 815.6-3

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
TWRLVL	Tower Water Level	(Lo/LoLo) 17/14 (23"-29"=Normal)

- ACTION:**
1. Verify level is outside Lo limits
    - a) Pumps shut down @  $\leq 14"$
  2. Inspect B1008 pump room and tower for leaks.
  3. For Low Level:  
If no leaks check that TWRMKUP.OK light is on.  
If not: Open bypass valve at solenoid until level = 29", then close bypass valve.
  4. Notes 1 & 3

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

[Back to Tower menu](#)

[Back to Top](#)

## 815.6-4

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo)
TWRFLO	Tower Water Flow	1800/1000/750 (≈1200 GPM Normal)

- ACTION:**
1. Verify low flow  $\leq 1000$  GPM
  2. Advise MCR (Pumps will stop @  $\leq 750$  GPM)
  3. Check B1008 Pump Room and Tower for major leak.
  4. Check other system parameters:
    - a) Level is  $\geq 17$  inches
    - b) Pressure is between 15 and 75 psig
  5. Note 3 & 1

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

[Back to Tower menu](#)

[Back to Top](#)

## 815.6-5

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
TWRCOND	TOWER WATER CONDUCTIVITY	(Hi) ≥ 0.8 milisiemens (.45 - .55 = Normal)

- ACTION:**
1. Verify conductivity is outside limits
  2. Check that manual valve in series with solenoid valve is open
  3. If Hi Alarm remains - Note 3 the following morning.

- NOTE:**
1. Record Actions Taken
  2. MCR = Main Control Room (x4662)
  3. Call Mech Svcs from "Call In" list
  4. CAS = Support (x2024)

[Back to Tower menu](#)

[Back to Top](#)

## 815.6-6

### ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
TWRMKUP.LOTEMP. ALRM	Cooling Tower Make-up Piping	(Lo) 40°f

- ACTION:**
1. Verify temp is outside limits.
  2. Verify that heat trace is on.
    - a) If not - raise upper temp SW setting until LED on Controller is on at location 12,7
  3. If outdoor air temp is  $\leq 32^{\circ}\text{f}$ , Note 3.

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

[Back to Tower menu](#)

[Back to Top](#)

815.6-7

ALARM RESPONSE SHEET - PHENIX

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
TWRFAN.VIB.HI	Cooling Tower Fan Vibration	ON/OFF

- ACTION:**
1. Verify That the fan has stopped.
  2. Advise MCR that PHENIX cooling will be affected.
  3. Note 1 & 3.

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

[Back to Tower menu](#)

[Back to Top](#)