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## C-A WATER GROUP ALARM MANUAL

**Dicom Alarm No: 957**

**Location: Bldg. 957**

**Systems: NASA Space Radiation Laboratory (NSRL)**

**Pages 1 through 32**

#	ALARM	RESET	STATUS	ALARM DESCRIPTION
<u>957</u>	<u>0</u>	<u>1</u>	<u>@</u>	<u>NSRL MAGNET COMMON ALARM - CRITICAL -</u>
<u>957</u>	<u>2</u>	<u>3</u>	<u>@</u>	<u>NSRL POWER SUPPLY COMMON ALARM</u>
<u>957</u>	<u>4</u>	<u>5</u>	<u>@</u>	<u>NSRL TOWER COMMON ALARM - CRITICAL-</u>
<u>957</u>	<u>6</u>	<u>7</u>	<u>@</u>	<u>NSRL SUMP COMMON ALARM</u>
957	8	9		SPARE
957	F	C		SPARE

**Revision Date**

**August 2003**

## ALARM RESPONSE SHEET – NSRL

**NODE: RC17**

**ALARM CODE        957.0**  
**RESTORE            957.1**

**LOCATION:    BLDG. 957**

**SYSTEM:        MAGNET WATER COMMON ALARM - **CRITICAL** -  
(COMNALRM.MAG)**

			<b>Page:</b>
<u>RC17</u>	<u>MAGLVL</u>	<u>Water Level</u>	<u>957.0-1</u>
<u>RC17</u>	<u>MAGFLO.</u>	<u>Low Flow</u>	<u>957.0-2</u>
<u>RC17</u>	<u>MAG.RESIS</u>	<u>Low Resistivity</u>	<u>957.0-3</u>
<u>RC17</u>	<u>MAGMKUP.CNT</u>	<u>System Water high Make-up count</u>	<u>957.0-4</u>
<u>RC17</u>	<u>MAGMKUP.</u>	<u>System Water Make-up</u>	<u>957.0-5</u>
<u>RC17</u>	<u>MAGPRES.SUP</u>	<u>Supply Pressure</u>	<u>957.0-6</u>
<u>RC17</u>	<u>LOAIR.ALRM.OK</u>	<u>Bldg. Compressed Air Low Pressure</u>	<u>957.0-7</u>
<u>RC17</u>	<u>MAGTEMP.SUP</u>	<u>Supply Temp.</u>	<u>957.0-8</u>

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

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## ALARM RESPONSE SHEET – NSRL

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

ACTION:

1. Verify level is outside Hi/Lo limits .
  - a) Pumps shut down @  $\leq 1$ ".
2. Inspect B957, pump room, Tunnel (956).
3. For Low Level: If no leaks check that MAGMKUP.OK (5k1) light is on. Press Make-Up Reset switch for a few seconds to reset MAGMKUP.OK. Check for flow thru deionizer.
4. 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 Water Systems from "Call In" list

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ALARM RESPONSE SHEET – NSRL

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
<u>MAGFLO</u>	Magnet System-Lo Flow	Alarm Limits (HI/LO/LO LO) 750/250/150 GPM

- Action:**
1. Verify Low flow <150 GPM.
  2. Verify that pump is running.
    - a) If not, Note 3.
  3. If pump is running.
    - a) Advise MCR that pumps may trip off @ 100 GPM.
    - b) Investigate for major leak and isolate.
  4. Verify if system pressure is between 100 - 200 psig,
    - a) Note 1, 3 the following workday.
    - b) If not, Note 3.

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

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>MAG.RESIS</u></b>	<b>Magnet Water Resistivity (.75 -1.25=Normal)</b>	<b>(Lo) .5/megohm-cm</b>

- ACTION:**
- 1. Verify resistivity is below low limits.**
  - 2. Observe that MAGDI.BYPASS LED is off.**
  - 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 Water Systems from "Call In" list**

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ALARM RESPONSE SHEET – NSRL

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
<u>MAGMKUP.CNT</u>	Magnet Water Make-up count	(Hi/HiHi) 50/100 GAL in 10 min

- ACTION:**
1. Check B957 Pump Room, Tunnel (956) 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 Water Systems from "Call In" list

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>MAGMKUP.</u></b>	<b>System Water Make-up</b>	<b>ON/OFF</b>

**ACTION:**

- 1. Verify Make-Up is ON on Water Group PC.**
- 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 Systems from "Call In" list**

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>MAGPRESS.SUP</u></b>	<b>Magnet Water Supply Press.</b>	<b>(Hi/Lo) 210/50psig</b>

**ACTION:**

- 1. Verify Press. is outside limits.**
- 2. Check that Auto/Manual Switch to Press. Control Valve (PCV) is in Auto.**
  - a) If not, place in Auto and observe press.**
- 3. Check for LOAIR.ALARM.**
- 4. For HiPress. Alarm, Check for closed valves & Lo flow.**
- 5. For LoPress. Alarm, Check for HiFlow & large leak.**
- 6. Note 3 & 1.**

**NOTE:**

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

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>LOAIR.ALRM.OK</u></b>	<b>Control Air Low Pressure</b>	<b>50psig</b>

- ACTION:**
- 1. Verify Low Air Pressure.**
  - 2. Advise MCR that NSRL Water Press. & Temp. Control will be affected.**
  - 3. Check that Magnet Water press. Is within limits (see attached response sheet).**
  - 4. Call Plant Engineering Site Shift Supervisor at x4174, cell – 872-8988 or C/W desk x4284 during off hours.**
  - 5. Note 1 & Note 3.**

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

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>MAGTEMP.SUP.</u></b>	<b>Water Supply Temp.</b>	<b>(HiHi/Hi/Lo) 105/100/55°F</b>

- ACTION:**
- 1. Verify temp is outside limits.**
  - 2. Advise MCR that pumps will go off at 105°F.**
  - 3. Verify that tower water temp is within limits. 50/90°F.**
    - a) If not, see that response sheet.**
  - 4. Verify that tower water flow is within limits 750 - 2000 GPM.**
    - a) If not, see that response sheet.**
  - 5. Note 3 & 1.**

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

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# ALARM RESPONSE SHEET – NSRL

**NODE: RC17**

**ALARM CODE      957.2**  
**RESTORE            957.3**

**LOCATION:      BLDG. 957**

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

			<b>Page:</b>
<u>RC17</u>	<u>PSLVL</u>	<u>Water Level</u>	<u>957.2-1</u>
<u>RC17</u>	<u>PSFLO..</u>	<u>Low Flow</u>	<u>957.2-2</u>
<u>RC17</u>	<u>PS.RESIS</u>	<u>Low Resistivity</u>	<u>957.2-3</u>
<u>RC17</u>	<u>PSMKUP.CNT</u>	<u>System Water high Make-up count</u>	<u>957.2-4</u>
<u>RC17</u>	<u>PSPRES.SUP</u>	<u>Supply Pressure</u>	<u>957.2-5</u>
<u>RC17</u>	<u>LOAIR.ALRM.OK</u>	<u>Bldg. Compressed Air Low Pressure</u>	<u>957.2-6</u>
<u>RC17</u>	<u>PSTEMP.SUP</u>	<u>Supply Temp.</u>	<u>957.2-7</u>

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**ALARM RESPONSE SHEET – NSRL**

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

**ACTION:**

1. Verify level is outside Hi/Lo limits.  
b) Pumps shut down @  $\leq 1$ ".
2. Inspect B957, pump room, B930A & 930UEB for leaks.
3. For Low Level: If no leaks check that PSMKUP.OK (1k1) light is on. Press Make-Up Reset switch for a few seconds to reset PSMKUP.OK. Check for flow thru deionizer.
4. If not: Open bypass valve at solenoid until level = 15", then close bypass valve.
6. For Hi level check that solenoid bypass is closed. If not: close valve If level still rises, close Make-Up valve @ solenoid.
7. Notes 1 & 3.

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

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## ALARM RESPONSE SHEET – NSRL

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
<u>PSFLO</u>	Power Supply-Lo Flow	Alarm Limits (HI/LO/LO LO) 1500/250/150 GPM

- Action:**
1. Verify Low flow <250 GPM.
  2. Verify that pump is running.
    - b) If not, Note 3.
  3. If pump is running.
    - c) Advise MCR that pumps may trip off @ 150 GPM.
    - d) Investigate for major leak and isolate.
  4. Verify if system pressure is between 50 - 150 psig,
    - c) Note 1, 3 the following workday.
    - d) If not, Note 3.

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

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## ALARM RESPONSE SHEET – NSRL

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

- ACTION:**
1. Verify resistivity is below low limits.
  2. Observe that PSDI.BYPASS LED is off.
  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 Water Systems from "Call In" list

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**ALARM RESPONSE SHEET – NSRL**

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

- ACTION:**
- 1. Check B957 Pump Room, B930A & 930UEB 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 Water Systems from "Call In" list**

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**ALARM RESPONSE SHEET – NSRL**

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
<u>PSPRESS.SUP</u>	Power Supply Water Supply Press.	(Hi/Lo) 150/50psig

**ACTION:**

1. Verify Press. is outside limits.
2. Check that Auto/Manual Switch to Press. Control Valve (PCV) is in Auto.
  - a) If not, place in Auto and observe press.
3. Check for LOAIR.ALARM.
4. For HiPress. Alarm, Check for closed valves & Lo flow.
5. For LoPress. Alarm, Check for HiFlow & large leak.
6. Note 3 & 1.

**NOTE:**

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

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>LOAIR.ALRM.OK</u></b>	<b>Control Air Low Pressure</b>	<b>50psig</b>

- ACTION:**
- 1. Verify Low Air Pressure.**
  - 2. Advise MCR that NSRL Water Press. & Temp. Control will be affected.**
  - 3. Check that Power Supply Water press. Is within limits (see attached response sheet).**
  - 4. Call Plant Engineering Site Shift Supervisor at x4174, cell – 872-8988 or C/W desk x4284 during off hours.**
  - 5. Note 1 & Note 3.**

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

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**ALARM RESPONSE SHEET – NSRL**

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

- ACTION:**
- 1. Verify temp is outside limits.**
  - 2. Advise MCR that pumps will go off at 105°F.**
  - 3. Verify that tower water temp is within limits. 50/90°F.**
    - a) If not, see that response sheet.**
  - 4. Verify that tower water flow is within limits 750 - 2000 GPM.**
    - a) If not, see that response sheet.**
  - 5. Note 3 & 1.**

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

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**NODE: RC17**

**ALARM CODE        957.4**  
**RESTORE            957.5**

**LOCATION: BLDG. 957**

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

			<b>Page:</b>
<u>RC17</u>	<u>TWRFLO.BAF.</u>	<u>Tower Low Flow</u>	<u>957.4-1</u>
<u>RC17</u>	<u>TWRLVL BAF</u>	<u>Tower Level</u>	<u>957.4-2</u>
<u>RC17</u>	<u>TWRTEMP.SUP BAF</u>	<u>Tower Supply Temp.</u>	<u>957.4-3</u>
<u>RC17</u>	<u>TWRPIPING.LOTEMP.ALARM BAF</u>	<u>Tower Heat Trace</u>	<u>957.4-4</u>
<u>RC17</u>	<u>TWRFAN.VIB.HI BAF</u>	<u>Tower Fan Vibration</u>	<u>957.4-5</u>
<u>RC17</u>	<u>TWRPRES BAF</u>	<u>Tower Pressure</u>	<u>957.4-6</u>
<u>RC17</u>	<u>TWRCOND.. BAF</u>	<u>Tower Conductivity</u>	<u>957.4-7</u>
<u>RC17</u>	<u>O3.ALRMHI.OK</u>	<u>Tower High Bldg. Ozone</u>	<u>957.4-8</u>
<u>RC17</u>	<u>O3.SYS.OK</u>	<u>Tower Ozone System Fault</u>	<u>957.4-9</u>

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**NOTE:        IF COMMON ALARM IS RECEIVED - CHECK**  
**FOR "BUILDING HIGH O-ZONE ALARM FIRST.**

**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>TWRFLO.</u></b>	<b>Tower Water Flow</b>	<b>(Lo/LoLo) 750/500 gpm</b>

**ACTION:**

- 1. Verify flow is outside limits.**
  - a) If flow is <500 advise MCR that pump(s) will shut down.**
- 2. Check 957 for major leak.**
- 3. Check other system parameters @ 957.**
  - a) Pump discharge is between 50 & 20 psig.**
  - b) Pump suction is between +2 & -10 in Hg.**
  - c) Tower basin water level >12.**
- 4. If actual parameters are outside of a) or b) or to c) advise MCR that cooling for NSRL Equipment, will be affected (Note 3).**
- 5. Note 3 & 1.**

**NOTE:**

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

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## ALARM RESPONSE SHEET – NSRL

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
<u>TWRLVL</u>	Cooling Tower Water Level	(Lo/LoLo) 12/10 inches
<u>ACTION:</u>	<ol style="list-style-type: none"> <li>1. Verify level is outside limits.</li> <li>2. Check that LED on Relays @ location 1k5 is on.               <ol style="list-style-type: none"> <li>a) Solenoid valve SV9 should be energized.</li> <li>b) If necessary open twr mkup bypass until level ~ 22 inches; then close valve.</li> </ol> </li> <li>3. Inspect area for leaks &amp; check that drain valves are closed.</li> <li>4. Notes 1 &amp; 3.</li> </ol>	
<u>NOTE:</u>	<ol style="list-style-type: none"> <li>1. Record Actions Taken</li> <li>2. MCR = Main Control Room</li> <li>3. Call Water Systems from "Call In" list</li> </ol>	

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## ALARM RESPONSE SHEET – NSRL

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
<u>TWRTEMP.SUP</u>	Tower Water Supply Temp	(Hi/Lo) 90/45°F

- 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 fwd and observe temp.
    - c) Place in HiSpeed fwd only if temp remains above 85°F.
  4. For LoAlarm fan should be off.
  5. Notes 1 & 3.

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

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**ALARM RESPONSE SHEET – NSRL**

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
<u>TWRPIPNG.LOTEMP</u> <u>.ALRM</u>	Cooling Tower Outdoor 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 at cooling tower until LED on Relay is OFF @ location 2K8.
  3. If outdoor air temp is 32F, Note 3.

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

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>TWRFANVIB.HI</u></b>	<b>Cooling Tower Fan</b>	<b>ON/OFF</b>

- ACTION:**
- 1. Verify that fan has stopped.**
  - 2. Advise MCR that NSRL cooling will be affected.**
  - 3. Notes 1 & 3.**

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

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>TWRPRES.SUP</u></b>	<b>Tower Water Supply Pressure (40 psig = Normal)</b>	<b>(Lo) 15</b>

- ACTION:**
- 1. Verify press is outside limits.**
  - 2. Check that Tower Pumps is running.**
  - 3. Check that flow  $\approx$ 1500gpm.**
  - 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 Water Systems from "Call In" list**

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>TWRCOND</u></b>	<b>TOWER WATER CONDUCTIVITY (210 - 1190 = Normal)</b>	<b>(Hi/Lo) 1200 milisiemens 200 milisiemens</b>

- ACTION:**
- 1. Verify conductivity is outside limits.**
  - 2. If Hi Alarm remains - Note 3 the following morning.**

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

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## ALARM RESPONSE SHEET – NSRL

<u>Signal Name</u>	<u>Description</u>	<u>Alarm Limits</u>
O3.ALRMHI.OK	HIGH BLDG. OZONE	(HI) .1 ppm.

- Action:**
1. Verify "Bldg. high ozone alarm" on Water Group PC (Flashing Red).
  2. Verify ozone system has shutdown on Water Group PC.
    - a. "O3 System Interlocked" should be flashing red.
    - b. "O3 System Status" should be flashing red.
  3. After ozone system has been interlocked, Bldg. 957 ozone levels should drop within 15 minutes. The Bldg high ozone alarm should clear (turn green) and the "O3 System Interlocked" should stay on Flashing Red).
  4. If the "Bldg high ozone alarm" resets on the Water Group PC (turns green) and the system is off, notify Water Group of system status during normal working hours.
  5. If the "Bldg high ozone alarm" does not reset on the Water Group PC (turn green) within 15 minutes the Fire Department must respond to Bldg. 957 and disable the Ozone system. (Instructions to disable the ozone system are on the Fire Department Run Cards).
  6. Do not try to restart ozone system under any circumstances!
  7. Note: A yellow strobe light is located on the ozone unit.
    - a. Light on: Evacuate Bldg. 957 and follow step 2.

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**ALARM RESPONSE SHEET – NSRL**

<b><u>Signal Name</u></b>	<b><u>Description</u></b>	<b><u>Alarm Limits</u></b>
<b>O3.SYS.OK</b>	<b>Ozone System Fault</b>	<b>(On/Off)</b>

- Action:**
- 1. If "O3 System Status" show the Ozone system as off (Flashing red) on the Water Group PC, notify Water Group of system status during normal working hours.**
  - 2. Do not try to restart ozone system under any circumstances!**
  - 3. If "Bldg. high ozone alarm" on the Water Group PC is flashing red, follow instructions for that alarm.**

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# ALARM RESPONSE SHEET – NSRL

**NODE: RC17**

**ALARM CODE      957.6**  
**RESTORE            957.7**

**LOCATION:      BLDG. 957**

**SYSTEM:        SUMP COMMON ALARM**

			<b>Page:</b>
<b><u>RC17</u></b>	<b><u>TUNNEL.SUMP.PMP</u></b>	<b><u>Tunnel Sump</u></b>	<b><u>957.6-1</u></b>
<b><u>RC17</u></b>	<b><u>PUMPRM.SUMP.PMP</u></b>	<b><u>Pump Room Sump</u></b>	<b><u>957.6-2</u></b>
<b><u>RC17</u></b>	<b><u>MEZZ.TANK.HI</u></b>	<b><u>Mezzanine Tank Level</u></b>	<b><u>957.6-3</u></b>

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>TUNNEL.SUMP.PMP</u></b>	<b>Tunnel Sump Pump</b>	<b>ON/OFF</b>

- ACTION:**
- 1. Check water group PC for water losses in the BAF magnet cooling system.**
  - 2. Inspect tunnel for leaks and verify sump volume.**
  - 3. Verify holding tank on mezzanine level is not full.**
  - 4. Notes 1 & 3**

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

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>PUMPRM.SUMP.PMP</u></b>	<b>Pump Room Sump Pump</b>	<b>ON/OFF</b>

- ACTION:**
- 1. Inspect B957 pump room and power supply area for leaks.**
  - 2. Verify holding tank on mezzanine level is not full.**
    - a) If tank is not full – Note 1 & Note 3 the following day.**
    - b) If tank IS full Note 3 immediately.**

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

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**ALARM RESPONSE SHEET – NSRL**

<b><u>SIGNAL NAME</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ALARM LIMITS</u></b>
<b><u>MEZZ.TANK.HI</u></b>	<b>Mezzanine Tank Hi Level</b>	<b>ON/OFF</b>

- ACTION:**
- 1. Verify that no water is being pumped into tank from sumps.**
  - 2. If no additional water is being pumped into tank - Notes 1 & 3 in the morning.**

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

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