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## C-A WATER GROUP ALARM MANUAL

**Dicom Alarm No: 959**

**Location: Bldg. 946**

**Systems: BEAM STOP Cooling System**

**Pages 1 through 8**

| #          | ALARM    | RESET    | STATUS   | ALARM DESCRIPTION                          |
|------------|----------|----------|----------|--|
| <u>959</u> | <u>0</u> | <u>1</u> | <u>@</u> | <u>BEAM STOP COMMON ALARM - CRITICAL -</u> |
| 959        | 2        | 3        | SPARE    |  |
| 959        | 4        | 5        | SPARE    |  |
| 959        | 6        | 7        | SPARE    |  |
| 959        | 8        | 9        | SPARE    |  |
| 959        | F        | C        | SPARE    |  |

**Revision Date**

**September 2005**

## ALARM RESPONSE SHEET – BEAM STOP

**NODE: RC19**

**ALARM CODE        959.0**  
**RESTORE            959.1**

**LOCATION:    BLDG. 946**

**SYSTEM:        BEAM STOP COOLING COMMON ALARM - **CRITICAL** -  
(COMNALRM.BLIP)**

|             |                     |                             | <b>Page:</b>   |
|-------------|---------------------|-----------------------------|----------------|
| <b>RC19</b> | <b>BLIPLVL</b>      | <b>Water Level</b>          | <b>957.0-1</b> |
| <b>RC19</b> | <b>BLIPFLO..</b>    | <b>Low Flow</b>             | <b>957.0-2</b> |
| <b>RC19</b> | <b>BLIP.RESIS</b>   | <b>Low Resistivity</b>      | <b>957.0-3</b> |
| <b>RC19</b> | <b>BLIPMKUP.</b>    | <b>System Water Make-up</b> | <b>957.0-4</b> |
| <b>RC19</b> | <b>BLIPPRES.SUP</b> | <b>Supply Pressure</b>      | <b>957.0-5</b> |
| <b>RC19</b> | <b>BLIPTEMP.SUP</b> | <b>Supply Temp.</b>         | <b>957.0-6</b> |

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

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## ALARM RESPONSE SHEET – BEAM STOP

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

ACTION:

1. Verify level is outside Hi/Lo limits
  - a) Pumps shut down @  $\leq 1$ "
2. Inspect B946, pump room, BLIP & Booster Tunnels.
3. For Low Level: If no leaks Press interlock Reset button and verify level returns to 15".
  - a. If not: Open bypass valve at solenoid until level  $\approx 15$ ", 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 – BEAM STOP**

| <b><u>SIGNAL NAME</u></b> | <b><u>DESCRIPTION</u></b>       | <b><u>ALARM LIMITS</u></b>                       |
|---------------------------|---------------------------------|--|
| <b><u>BLIPFLO</u></b>     | <b>BEAM STOP System-Lo Flow</b> | <b>Alarm Limits<br/>(LO/LO LO)<br/>75/50 GPM</b> |

**Action:**

- 1. Verify Low flow <75 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 @ 50 GPM.**
  - b) Investigate for major leak and isolate**
- 4. Verify if system pressure is between 75 - 125 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 – BEAM STOP**

| <u>SIGNAL NAME</u> | <u>DESCRIPTION</u>                              | <u>ALARM LIMITS</u>  |
|--------------------|---|----------------------|
| <u>BLIP.RESIS</u>  | BEAM STOP Water Resistivity<br>(.9 -1.1=Normal) | (Lo)<br>.5/megohm-cm |

- ACTION:**
1. Verify resistivity is below low limits
  2. Observe that BLIPDI.BYP LED is off.
  3. Observe that system resistivity rises above .5 megohm
  4. 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 – BEAM STOP**

| <b><u>SIGNAL NAME</u></b><br><b><u>LIMITS</u></b> | <b><u>DESCRIPTION</u></b> | <b><u>ALARM</u></b> |
|---|---------------------------|---------------------|
|---|---------------------------|---------------------|

|                         |                             |               |
|-------------------------|-----------------------------|---------------|
| <b><u>BLIPMKUP.</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 – BEAM STOP**

| <b><u>SIGNAL NAME</u></b>  | <b><u>DESCRIPTION</u></b>            | <b><u>ALARM LIMITS</u></b> |
|----------------------------|--------------------------------------|----------------------------|
| <b><u>BLIPPRES.SUP</u></b> | <b>BEAM STOP Water Supply Press.</b> | <b>(Lo)<br/>50psig</b>     |

**ACTION:**

- 1. Verify Press. is outside limits.**
- 2. For HiPress. Alarm, Check for closed valves & Lo flow  
If High Press – open pressure bypass until pressure on  
PC is ≈85psig.**
- 3. For LoPress. Alarm, Check for HiFlow & large leak**
- 4. 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 – BEAM STOP**

| <u>SIGNAL NAME</u>   | <u>DESCRIPTION</u> | <u>ALARM LIMITS</u>         |
|----------------------|--------------------|-----------------------------|
| <u>BLIPTEMP.SUP.</u> | Water Supply Temp. | (HiHi/Hi/Lo)<br>105/100/60F |

- ACTION:**
1. Verify temp is outside limits.
  2. Check for build. Lo air pressure.
  3. Advise MCR that pumps will go off at 105F.
  4. Open bypass valve around temp control valve and throttle to maintain temp of  $\approx 80^{\circ}\text{F}$ .
  5. If successful, Note 1 & 3 the following morning.
  6. If not, Note 1 & 3.

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

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