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BRAHMS

NODE: RC14

ALARM CODE 819.0
RESTORE 819.1

LOCATION: BLDG. 1002

SYSTEM: BRAHMS MAGNET 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>DESCRIPTION</u>	<u>PAGE NO.</u>
RC12	MAGFLO	Magnet Water Flow	819.0-1
RC12	MAGTEMP.SUP	Magnet Water Supply Temp.	819.0-2
RC12	MAGLVL	Magnet Water Level	819.0-3
RC12	MAGRESIS	Magnet Water Resistivity	819.0-4
RC12	MAGMKUP.CNT	Magnet Water Makeup Gallons	819.0-5

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

ALARM RESPONSE SHEET - BRAHMS MAGNET COOLING

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
MAGFLOW	Mag Water Flow	(Hi/Lo/) 200/175 GPM

- ACTION:**
- 1. Verify low flow ≤ 200 GPM**
 - 2. Advise MCR (Pumps will stop @ ≤ 175 GPM)**
 - 3. Check 1002 Pump Rm Lines for major leak**
 - 4. Check other system parameters:**
 - a) Level is ≥ 9 inches**
 - b) Pressure is around approx. 175 psig.**
 - c) If actual parameters are less than a) or limits of b), turn off pump (p1 or p2)**
 - 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](#)

ALARM RESPONSE SHEET - BRAHMS MAGNET COOLING

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
MAGTEMP.SUP	Mag Water Supply Temp.	(H.Hi/Hi/Lo) 105/100/65° F

- ACTION:**
1. Verify temp is outside limits
 2. Verify that tower water temp is within limits. 90/50° F
 - a) If not, see that response sheet
 3. Verify that tower water flow is within limits ≥ 400 GPM
 - a) If not, see that response sheet
 4. For HiTemp alarm Output signal to TCV-100%
 - 4a. If H.Hi temp (105f) is reached, pumps will shut off after 60 seconds
 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](#)

819.0-3

ALARM RESPONSE SHEET - BRAHMS MAGNET COOLING

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
MAGLVL	Mag Water Level	(Hi/Lo/LoLo) 20/9/2 inches

- ACTION:**
1. Verify level is outside Hi/Lo limits
 2. Inspect area for leaks
 3. Notes 1 & 3

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

[Back to Top](#)

ALARM RESPONSE SHEET - BRAHMS MAGNET COOLING

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
MAGRESIS	Mag Water Resistivity	(Hi/Lo/LoLo) NA/.5/megohm-cm

- ACTION:**
- 1. Verify resistivity is outside limits**
 - 2. Observe that flow is thru deionizer**
 - 3. Observe deionizer output resistivity (2-16 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](#)

819.0-5

ALARM RESPONSE SHEET - BRAHMS MAGNET COOLING

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
MAGMKUP.CNT	Mag Water Make-up Gallons	(Hi/HiHi) 25/50 GAL in 10 min

- ACTION:**
1. Check 1002 Pump Room Lines for leak(s).
 2. Advise MCR, isolate leaking device
 3. Notes 1 & 3

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

[Back to Top](#)

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BRAHMS

NODE: RC14

ALARM CODE 819.2
RESTORE 819.3

LOCATION: BLDG. 1002

SYSTEM: BRAHMS MAGNET 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>DESCRIPTION</u>	<u>PAGE NO.</u>
RC12	<u>TWRFLOW</u>	<u>Tower Water Flow</u>	<u>819.2-1</u>
RC12	<u>TWRTEMP</u>	<u>Tower Water Supply Temp</u>	<u>819.2-2</u>

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

Mar. 2005

ALARM RESPONSE SHEET - BRAHMS TOWER COOLING

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
TWRFLOW	Tower Water Flow	(Lo/LoLo) 400/250 GPM

- ACTION:**
1. Verify flow is outside limits
 - a) If flow is <150 advise MCR & turn off pump(s)
 2. Check 1002 for major leak
 3. Check other system parameters @ 1002:
 - a) Pump discharge is between 15 - 20 psig
 - b) Pump suction is between +2 & -20 in Hg
 - c) Tower basin water level >14"
 4. 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](#)

ALARM RESPONSE SHEET - BRAHMS TOWER COOLING

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
TWRTEMP	Tower Water Supply Temp	(Hi/Lo) 90/50° 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 90° F
 4. For LoAlarm fan should be off
 5. 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](#)