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NODE: RPC 5

ALARM CODE 995.0
RESTORE 995.1

LOCATION: BLDG. 911

SYSTEM: MAIN MAG. COOLING COMMON ALARM
(COMNALRM.MMAG)

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>
RPC 5	MMFLO.	Magnet Water Flow	995.0-1
RPC 5	MMTEMP.SUP	Magnet Water Supply Temp.	995.0-2
RPC 5	MMLVL	Magnet Water Level	995.0-3
RPC 5	MMRESIS	Magnet Water Resistivity	995.0-4
RPC 5	MKUP.CNT	Magnet Water Makeup Flow	995.0-5
RPC 5	MKUP.	C-A Main Magnet	
		Water Make-Up	995.0-6

NOTE: [IF COMMON ALARM IS RECEIVED - CHECK](#)
[MAKE-UP DISPLAY FOR WATER MAKE-UP.](#)

ALARM RESPONSE SHEET - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> Hi/Lo/LoLo)
MMFLO	Mag Water Flow w/ 2 pumps (≈3000 GPM Normal) w/ 1 pumps (≈1700 GPM Normal)	w/ 2 pumps 3500/2750/2000 w/ 1 pump 3500/1000/500

- ACTION:**
1. Verify low flow \leq lo flow limit
 2. Advise MCR (Pumps will stop @ \leq lolo flow limit
 3. Check 911 Pump Rm, AGS Ring, South Wiring Tunnel & Target Bldg., 242 magnet area for major leaks
 4. Check other system parameters:
 - a) Level is \geq 9 inches
 - b) Pressure is between 50 and 100 psig
 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 - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (HiHi/Hi/Lo) 100/90/65°f
MMTEMP.	Mag Water Supply Temp. (≤85°f mean delta t = normal)	

ACTION: 1. Verify temp is outside limits

2. Verify that domestic water inlet temp is within limits. ≈50/60 f.
a) If not, see that response sheet.

3. For HiTemp alarm TCV indicator should be in full open position.

a) If not, place AUTO/MANUAL selector at valve in manual and raise output in 5 psi increments until temp is 5° below hi limit.

b) Check that fluid coolers & spray pumps are in Auto and are running.

c) If not: Check and fill basins if necessary, place fans & spray pumps in auto observe that 1 or more cooler cycles on. If not put cooler in manual and start with hand push button next to appropriate cooler.

d) Observe system temp and adjust.

e) Advise MCR that Pumps will shut down 3 mins after system supply reaches 100°f.

4. For lo temp alarm TCV indicator should be in the closed position . If not: Check that selector is in auto.

5. Note 3 & 1

NOTE:

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

ALARM RESPONSE SHEET - AGS

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

- ACTION:**
1. Verify level is outside Hi/Lo limits
 - a) Pumps shut down @ ≤ 1 "
 2. Check 911 Pump Rm, AGS Ring, South Wiring Tunnel & Target Bldg., 242 magnet area for major leaks
 3. If no leaks check that MKUP.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
 4. Call Water systems from "Call In" list

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ALARM RESPONSE SHEET - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo)
MMRESIS	Mag Water Resistivity (.75-1.25=Normal)	NA/.5/megohm-cm

- ACTION:**
- 1. Verify level is below low 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 regular workday.**

- 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 - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (HiHi/Hi)
MKUP.CNT	Mag Water Make-up Flow	125/75 Gal in 10min

- ACTION:**
1. Check 911 Pump Room, AGS Ring, S.Wiring tunnel, 242 magnet area & target bldg. 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
 5. Call Water systems from "Call In" list

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ALARM RESPONSE SHEET - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> ON/OFF
MKUP.	C-A Main Magnet Water Make-up	

- 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**
 - 6. Call Mech Svcs from "Call In" list**

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NODE: RPC 5

ALARM CODE 995.2

RESTORE 995.3

LOCATION: BLDG. 911

**SYSTEM: SPEC. EJECT. COOLING COMMON ALARM
(COMNALRM.SPEJ)**

**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>
RPC 5	<u>SPEJFLO</u>	<u>Special Ejection Water Flow</u>	<u>995.2-1</u>
RPC 5	<u>SPEJPRES.SUP</u>	<u>Special Ejection Supply Pressure</u>	<u>995.2-2</u>

ALARM RESPONSE SHEET - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/LoLo) 200/20/10 GPM
SPEJFLO	Special Ejection Water Flow (≈100-120 GPM=Normal)	

- ACTION:**
1. **Verify Low flow ≤ 20 GPM**
 2. **Advise MCR (Pumps will stop @ ≤ 10 GPM)**
 3. **Check 911 Pump Room, and AGS Ring for major leak.**
 4. **Check other system parameters:**
 - a) **Pressure is between 175 and 340 psig**
If less than 175: check that manual/auto selector is in Auto.
If greater than 340: check manual/auto selector is in Auto. If
press remains high switch to manual and lower output press
in 5 psi increments until system press ≤ 300 psi
 5. **Note 3 & 1**

- 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 - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (HiHi/Hi/Lo) 375/340/175
SPEJPRES.SUP	Special Ejection Supply Pressure (220 psig = Normal)	

- 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 ≤ 175 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 = 220.
 4. If ≥ 340 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 ≈ 220 .
 5. Note 3 & 1

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

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NODE: RPC 5

ALARM CODE 995.4

RESTORE 995.5

LOCATION: BLDG. 911

**SYSTEM: FLUID COOLER COMMON ALARM
(COMNALR.CLR)**

**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>
RPC 5	<u>CLRTEMP.SUP</u>	<u>Fluid Cooler Water Supply Temp.</u>	<u>995.4-1</u>
RPC 5	<u>CLRDP</u>	<u>Fluid Cooler Diff. Press.</u>	<u>995.4-2</u>
RCP 5	<u>CLRBSN1-8.LVL</u>	<u>Fluid Cooler Basin Level</u>	<u>995.4-3</u>
RCP 5	<u>CLRBSN1-8. LOTEMP.ALARM</u>	<u>Fluid Cooler Basin Temp</u>	<u>995.4-4</u>
RCP 5	<u>CLRMKUP. LOTEMP.ALARM</u>	<u>Fluid Cooler Mkup Piping</u>	<u>995.4-5</u>

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ALARM RESPONSE SHEET - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u> (Hi/Lo/ 100/50° f
CLRTEMP.SUP	Fluid Cooler Water Supply Temp (80-95°f = normal)	

- 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 and 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 and spray pump are off for Lo Temp.
 - a) If not, place selector SW in Auto for both fan and spray pump.
 5. Note 3 & 1

- 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 - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
CLRDP	Fluid Cooler Diff Press.	Hi= 15 PSID

- ACTION:**
- 1. Check that Auto/Manual Selector is in Auto Position**
 - 2. If not, place in Auto**
 - 3. Notes 1 and 3**

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

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3ALARM RESPONSE SHEET - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
CLRBSN1-4.LVL	Fluid Cooler Basin Level	ON=OK; OFF=ALARM
CLRBSN5-8.LVL	Fluid Cooler Basin Level	Lo = 12" water LoLo = 1" water

- ACTION:**
1. Verify Low water condition
 2. Check that make up valve is open and drain is closed.
 3. Open domestic water bypass on cooler if level is low.
 4. Note 1 & 3 as required.

- 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 - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARMLIMITS</u>
CLRBSN1-4.LOTEMP. ALRM	Fluid Cooler Basin Temp	On=OK; OFF=ALARM
CLRBSN5-8.LOTEMP. ALRM	Fluid Cooler Basin Temp	Low $\leq 36^{\circ}\text{F}$

- ACTION:**
1. Verify Lo Temp exists.
 2. If basin water temp is ≤ 40 f turn off cooler fan and spray pump switch and drain basin.
 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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ALARM RESPONSE SHEET - AGS

<u>SIGNAL NAME</u>	<u>DESCRIPTION</u>	<u>ALARM LIMITS</u>
CLRMKUP.LOTEMP. ALRM	Fluid Cooler Mkup Piping	Hi/Lo/LoLo NA/40 f/NA

- 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.
 3. Note 1 & 3

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

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