

**From:** Farnholtz, Thomas *RECEIVED*  
**To:** Alexander, Ryan; Kennedy, Kriss; Clark, Jeff; Vogel, Anton; Caldwell, Robert; Azua, Ray; Howell, Linda  
**Subject:** FW: Fort Calhoun Station 7/9/11 0500 Nightshift Incident Command Report  
**Date:** Saturday, July 09, 2011 8:53:18 AM  
**Attachments:** 7-09-11 Nights.docx

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Hi -

The night shift Incident Command Report for Fort Calhoun.

Enjoy.

Tom.

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**From:** MCMANIS, JOE L [mailto:jmcmanis@oppd.com]  
**Sent:** Saturday, July 09, 2011 5:38 AM  
**To:** FCS Flood Incident Commander Reports  
**Cc:** Farnholtz, Thomas; R4 IRC  
**Subject:** Fort Calhoun Station 7/9/11 0500 Nightshift Incident Command Report

All

Attached is the 7/9/11 0500 Nightshift Incident Command Report.

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Act, exemptions 6, 7, 8, 9  
FOIA- 2011-0339

C/40

# 2011 FLOODING INCIDENT COMMANDER'S REPORT

DATE: 7-9-2011

TIME: 0500

IC: Joe McManis

SHIFT: Nightshift

## EMERGENCY PLAN CLASSIFICATION

Notification of Unusual Event (NOUE): Declared 6/6/11 0800; HU-1, EAL-5

## SAFETY STATUS and ISSUES

### Nuclear Safety:

SOPP Shutdown Condition: 1	ORAM Color: Green but elevated risk due to Station flooding	Time to Boil - Cavity: 39.7 hours Time to Boil - SFP: 80 hours
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### Industrial Safety:

- 1) Stay clear of energized, submerged 13.8 kV transformers inside PA
- 2) The two person rule is in effect for working or traversing in high flood waters.
- 3) Contact Mike Godfrey and Brian Kramer for all non-routine dayshift switchyard entries.
- 4) Maintenance Shop cross path secured with red tape due to column sinking. Requires bypassing through the Machine Shop. Safety Glasses required for passage. Safety glasses staged at both doors to the Machine Shop.
- 5) Do not park in or block reserved parking locations in the parking lot. Also, only on shift staff and personnel directly supporting the flooding efforts/priorities are to park in the new parking lot at the top of the hill. All others are to park at Blair High School and use the shuttle bus.
- 6) PA Clean-up Spray Team members: Long sleeve shirts and goggles required per IS Coordinator. Normal PPE for all other workers.

Radiological Safety: The portal radiation monitor at the south security exit point has been restored to service. Please ensure you stop and pause in the monitor on your way out of the Protected Area.

## PLANT STATUS

345 kV Status: Available	161 kV Status: Available
DG1 Status: Available	DG2 Status: Available
Significant Bus / MCC Outages: Buses 1B4A	
Containment Closure Status: Still set for heavy loads	Containment Temp: 77 °F
Reactor/Cavity Water Level: 1036' 9"	River Level: 1006' (AOP-01)

Significant Equipment Unavailable: AC-3B, VA-64B, Switchgear Room A/C VA-89/90

## SIGNIFICANT PROTECTED EQUIPMENT

### Areas and Equipment protected for Spent Fuel Pool, Shutdown Cooling, and Containment Closure:

- Room 5 – Spent Fuel Pool Cooling components
- Room 13 & 14 – Shutdown Cooling Components
- Room 15A - Shutdown Cooling Components
- Room 18 – Raw Water/CCW Heat exchanger AC-1D
- Room 69 – Component Cooling Water Pump AC-3C
- East & West Switchgear Room – Bus 1A3
- DG-1 Room 63 – Emergency Generator DG-1
- Intake Structure – Raw Water Pump AC-10D, "E" gate/screen, AC-12B RW Strainer, FP-1B, Diesel Fire Pump, CW-16B
- VA-3A, Containment Filtering Unit
- Room 21 - Shutdown Cooling
- Corridor 26 by Boric Acid Tanks – Boric Acid and Makeup Flow paths (includes MCCs)
- Corridor 4 - Boric Acid and Makeup Flow paths (includes MCCs)
- Containment - Boric Acid and Makeup Flow paths
- Upper Electrical Penetration Room - Boric Acid and Makeup Flow paths (includes MCCs)
- Switchyard 345 KV Breakers 5 and 6
- Transformers T1A-1 and T1A-2

## SIGNIFICANT WORK COMPLETED THIS SHIFT

- Energized Bus 1B4B and 1B3B-4B:
  - Reconnected DW-46B motor leads lifted for bus inspection (CR2011-6046)
    - Inspected other compartments to ensure no other cables loose.
  - Breaker trip checks done.
  - Verified wiring is installed correctly via load rotational checks.
  - Buses are energized and available.
- MCC 4A1 available.
- WO#417810 successfully tested the Railroad Siding dewatering pump and hoses to pump water to the Raw Water Discharge Header. Copy of work order provided to NRC as requested.
- Northeast PA Aqua Dam level just above river level and monitoring/pumping to compensate for puncture leak.
- Drafted dewatering plan and nightshift IC reviewed. Turned over to dayshift Incident Commander for review.
- Continued continuous fill of Admin. Building Aqua Dam Section 7. Matching input to leakage to maintain ~ 1 foot above water line. Will replace Section 7 tomorrow.
- Processed 12 NPS personnel for TLD's.

**WORK PRIORITIES FOR NEXT SHIFT (IC/Shift Poles 7/7/9)**

- Complete remaining work on Bus 1B4B, 1B3B-4B.
  - Final inspection of fire barrier (EM/QC)
  - Thermography on connections/bus when the bus is scheduled to be loaded-7/11. (QC)
- Complete remaining work on MCC-4A1:
  - Remove clearance.
- Nine 6-inch PA Dewatering pumps in place:
  - Install hoses and drape over Aqua Dam
  - Additional hoses on order if needed – will arrive today
  - Plan is to start dewatering at 0630 hours Sunday
  - Plan is to start clean-up of the PA Monday morning (if dewatered)
- Finalize written plan for clean-up of PA after dewatering is complete. (IC/Maint. Coordinator)
  - Order equipment/supplies for clean-up, if needed, tomorrow
  - Include controls for protection of Aqua Dam during clean-up and going forward.
  - Goal is to have Dayshift IC approve the plan.
  - Provide a copy to the NRC when complete (via Susan Baughn)
- Monitor Admin. Building Aqua dam for any further signs of failure. Continuously fill Admin. Building Aqua Dam Section 7. Matching input to leakage to maintain ~ 1 foot above water line. (OPS/IC)
- Monitor water intrusion inside the security building. May need to stage add'l equipment. (NPS)

**NEAR TERM STATION PRIORITIES**

TASK	LEAD WORK GROUP	EXPECTED COMPLETION DATE	COMMENTS
Thermography and loading of energized Buses 1B4B & 1B3B-4B	EM/QC/Ops.	July 11	Buses energized on 7/9 and available.
Complete installation of new PA Aqua Dam	CM	July 9	Ring complete. Top off only with water on outside of Aqua Dam.
Provide repair and/or going forward plan for punctured aqua dam.	CM	July 9	Puncture in NE dam due to scaffold interference.
Replace leaking ADM Bldg. Aqua Dam Sec 7	CM	July 9 Dayshift	After PA Aqua Dam installed
Develop written plan for clean-up of PA after dewatering including controls for protection of Aqua Dam	Maint. Coordinator	July 9	Drafted 7/9 and sent to day shift IC for review.
Finalize plan and set-up for dewatering the Aux. Bldg. railroad siding	Chem/Maint./Ops	July 9	WO#417810. Needs to occur concurrent with PA dewatering
Dewater after installation of new PA Aqua Dam	Maint.	July 10-11	WR to be written. Planned start is July 11 at 0630 hours.
Develop punch list of work to complete in PA after clean-up is complete	IC/Maint. Coordinator	July 10	Drafted
Finalize plan/schedule for remaining Bus 1B4A RCA extent of condition inspections	Eng./Steve Clayton	Required NLT July 11	WO#. Sr. Mgmt. high priority
Install water proof enclosure boxes around 13.8 kV transformers in PA	Maint.	July 15	WO#. After PA Aqua Dam is installed and dewatering complete
Install Temp. Mod. for MCC 4A2	EM	July 19	EC#. Parts hold. Breaker scheduled arrival is 7/15
VA-89/90: Remove, restore and elevate	SFM	July 22	EC 53400 being processed by DEN for the elevated stands.
Transition Plan for Aqua Dam monitoring and filling.	TBD	July 21	Transition aqua dam monitoring and filling from Ops to another designated department and/or lead coordinator. Add support personnel.

## FLOOD BARRIERS STILL PENDING

Flood barriers installed per PE-RR-AE-1001, with the following deviations:

AE-22- 1007-1 door to Radwaste Building (power door) is removed. NOTE: NO POWER from MCC-4A2.

AE-23- 1007-9 door from RCA to Chemistry is removed.

AE-24- 1007-19 door – normal RP access point is removed.

AE-25- 1011-1 door from Turbine Mezzanine to Coordinator 52 is removed.

AE-28-1011-4 south door switchgear room for emergency switchgear exit

AE-21- Intake structure "trash rack" outlet is removed for cell cleaning work.

SD-127, 128 – Maintenance Shop drains to Lift Station #1 - open

VD-681, 682 – Switchgear Room HVAC drains to TB Sump - open

Other 1007' barriers can be removed to allow work access with authorization from SM. All 1007' barriers will be re-installed when river level reaches 1006.9' and rising or when directed by the SM.

## ACTIVE HITS

- Level A CR 2011-5414: Loss of 1B4A – Owner: Steve Clayton. RCA in progress.
- Intake Screen sanding in issues – HIT formed under CR 2011-5750 – Ken Erdman lead.

## NOTES: (Topics to Discuss, Actions to Complete, Kudos to Share)

- Continue alternate switchgear room portable A/C cooling.
  - Operating units include: One 5-ton air-cooled, five one-ton air-cooled, two 5-ton water-cooled and one 2-ton water-cooled.
  - Ready spares include: One 5-ton air-cooled (staged in room), one 5-ton and two 1-ton air-cooled units in Maint Shop.
  - Temperature monitor is now located on the side of the panel as you enter the upper room towards the shutdown panels
  - Need to monitor and empty condensation water from all air-cooled A/C units. (Maint/SFM)
- Steve Gebers has the lead to transition from Coops to Bartlett personnel for Pump/Berm Watch Team members.
- Maintenance on failed pumps/generators appears to be due to sand or dirt in the gas. Be cautious that gas cans do not become contaminated with dirt and sand.
- Spare B.5.b Fire Truck from Fort Calhoun Volunteer Fire Dept located onsite. Supply hose in rack along walkway to King Tut blocks.
- Bottled water is stored in a sealand container at the top of the hill. Bring into PA as needed.
- Shift Manager and IC will continue to monitor river levels and utilize AOP-1, EPIP-TSC-2 and PE-RR-AE-1001 as the principle governing documents. **NOTE: New River to EPIP-TSC-2 based on 7/20/11 for alternate flooding D/S the**
- If communications or ERDS is lost in the Control Room or TSC; Incident Commander is to call NRC Senior Resident Inspector and the NRC operations center (per AOP).
- Use controls in place for boat safety – Need supervisor brief before getting boat keys from Incident Commander.
- Spare gas generators are staged on the Turbine Deck. Spare gas pumps are in the Maintenance Shop.