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UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

July 7, 2010

Mr. David A. Baxter
Site Vice President
Duke Energy Carolinas, LLC
Oconee Nuclear Station
7800 Rochester Highway
Seneca, SC 29672

SUBJECT: OCONEE NUCLEAR STATION - NRC INSPECTION REPORT 05000269/2010006, 05000270/2010006, 05000287/2010006

Dear Mr. Baxter:

On June 10, 2010, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Oconee Nuclear Station Units 1, 2, and 3 of the interim compensatory measures to mitigate external flooding. The enclosed inspection report documents the inspection results which were discussed on June 10, 2010, with Mr. Pitesa and other members of your staff.

The inspection examined activities conducted under your licenses as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your licenses. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel. Based on the results of this inspection, no findings were identified.

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A-2

Should you have any questions concerning this letter, please contact us.

Sincerely,

/RA/

Jonathan H. Bartley, Chief
Reactor Projects Branch 1
Division of Reactor Projects

Docket Nos.: 50-269, 50-270, 50-287
License Nos.: DPR-38, DPR-47, DPR-55

Enclosure: NRC Integrated Inspection Report 05000269/2010006, 05000270/2010006, 05000287/2010006 w/Attachment: Supplemental Information

cc w/encl: (See page 3)

Should you have any questions concerning this letter, please contact us.

Sincerely,

/RA/

Jonathan H. Bartley, Chief
Reactor Projects Branch 1
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Docket Nos.: 50-269, 50-270, 50-287
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cc w/encl: (See page 3)

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cc w/Encl:

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Letter to David A. Baxter from Jonathan H. Bartley dated July 7, 2010

SUBJECT: OCONEE NUCLEAR STATION - NRC INSPECTION REPORT 05000269/2010006, 05000270/2010006, 05000287/2010006

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U. S. NUCLEAR REGULATORY COMMISSION
REGION II

Docket Nos:	50-269, 50-270, 50-287
License Nos.:	DPR-38, DPR-47, DPR-55
Report No.:	05000269/2010006, 05000270/2010006, 05000287/2010006
Licensee:	Duke Energy Carolinas, LLC
Facility:	Oconee Nuclear Station, Units 1, 2 and 3
Location:	Seneca, SC 29672
Dates:	June 7, 2010, through June 10, 2010
Inspectors:	C. Rapp, Senior Project Engineer W. Rogers, Senior Reactor Analyst K. Martin, Human Factors Engineer
Approved by:	J. Bartley, Chief Reactor Projects Branch 1 Division of Reactor Projects

SUMMARY OF FINDINGS

IR 05000269/2010-002, 05000270/2010006, 05000287/2010006; 01/01/2010 – 03/31/2010; Oconee Nuclear Station Units 1, 2 and 3; Interim Compensatory Measures for External Flood

This report covered a one week inspection by a senior project engineer, a senior reactor analyst, and a human factors engineer. No findings were identified. NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process."

4 OTHER

4OA5 Other

.1 Review of Interim Compensatory Measures (ICMs) for External Flooding

a. Inspection Scope

By letter dated January 15, 2010, the licensee provided specific ICMs to mitigate the effects of a failure of the Jocassee dam. On June 3, 2010, the licensee submitted a letter to update these ICMs. The inspectors reviewed the mitigation strategy associated with these ICMs to verify the strategy was effective and the ICMs were either implemented or would be implemented within a reasonable period. The following inspection activates were conducted to verify each ICM was either completed or scheduled for completion. Documents reviewed are listed in the Attachment.

- Reviewed the applicable procedures for the visual inspections and the results of these inspections.
- Reviewed the annual FERC and the 5-year independent inspection reports.
- Walked down the seepage collection and monitoring system.
- Reviewed completed monitoring results associated with seepage monitoring.
- Interviewed select personnel associated with performing the Jocassee visual dam inspections.
- Performed a walk-down of the designated route for temporary hoses.
- Observed ammeters and voltmeters on Keowee spillway gates, the operating procedure for the spillway gates and, calibration procedure for the ammeters and voltmeters.
- Interviewed operations personnel to ascertain that they understood their responsibilities in performing the mitigation strategy.
- Observed training conducted for response personnel.
- Reviewed assignment document for the ONS Jocassee engineer and interviewed the individual assigned.
- Walked down selected critical tasks and confirming that critical equipment was staged and functionally tested.
- Observed cameras monitoring Jocassee lake level were functional and verified the video signal was available in the Jocassee control room.
- Reviewed the calibration procedure for forebay and tailrace level instruments.
- Observed that a compressor and air wrench and a portable generator with electric drive motor were staged at the Jocassee spillway for alternate methods of operating the spillway gates.
- Observed Jocassee personnel operating both the compressor and the portable generator with electric drive motor.
- Interviewed Jocassee and Keowee control room personnel to assess their understanding of duties and responsibilities related to a Jocassee dam failure.

b. Findings

No findings were identified. The inspectors determined that the ICMs were either implemented or will be implemented within the schedule provided by the licensee. The ICMs were a viable mitigation strategy for external flooding while the licensee developed permanent external flooding mitigation strategy. The flood mitigation manual actions could be accomplished within the required times. The interim changes in mitigation strategy were reflected in their emergency procedures and personnel were trained on the procedural changes.

4OA6 Management Meetings (Including Exit)

Exit Meeting Summary

The inspectors presented the inspection results to Mr. Bill Pitesa and other members of licensee management on June 10, 2010. The licensee acknowledged the findings presented. The inspectors asked the licensee whether any of the material examined during the inspection should be considered proprietary and no proprietary information was identified.

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee
K. Alter, Regulatory Compliance Manager
M. Austin, Fleet EP Manager
S. Batson, Engineering Manager
R. Brown, Emergency Preparedness Manager
A. Burns, Civil Engineer
D. Deatherage, Outage Manager
P. Earnhardt, External Flood Project Manager
R. Freudenberger, Safety Assurance Manager
D. Garland, Engineering Supervisor
L. Kanipe, Risk Analyst
B. Keaton, Hydro System Engineer
B. Lynch, Primary Systems Engineer
R. McCoy, Civil Engineer
B. Meixell, Regulatory Compliance
B. Pitesa, Senior Vice President, Nuclear Operations
B. Stares, Civil Engineer

DOCUMENTS REVIEWED

Section 4OA5: Other
EM-5.3, Rev 2
AP/0/A/2000/001, Rev 5
RP/0/B/1000/010, Rev 7
PIP O-10-04606
PIP O-10-04714
AP/0/A/1700/047, Rev 1
JOCAP/00/WR/001, Rev 0
Oconee Training Package for AP/0/A/1700/047 changes
Jocassee Hydro Station Emergency Action Plan dated 12/31/2009
Keowee Hydro Station Emergency Action Plan dated 12/31/2009
Calculation Number OSC-9940, approved 6/7/2010
AP/0/A/1700/047, Rev. 1
Dam Safety Inspection Report, Jocasee Development of Keowee-Toxaway Project, dated 3/20/08
Dam Safety Inspection Report, Jocasee Development of Keowee-Toxaway Project, dated 6/10/09
2009 Dam Safety Surveillance and Monitoring Report, Jocassee #2503-02 dated 3/30/10
Jocassee Logbook
Jocasee Outside Rounds Recording Logbook
Potential Failure Modes Analysis Jocassee Development Keowee-Toxaway Project, dated 12/04

OP/0/A/1106/042, Rev. 2
PT/2/A/0152/006, Rev 20
FERC Part 12D Safety Inspection Report, Jocassee Development Keowee-Toxaway Project, 12/09
Drawing J-0025-F, Rev 6
Drawing J-0025-C-A, Rev 2
PT/0/B/0120/032, Enclosure 13.14, Rev. 36
Work Order 01858749 01
External Flood Mitigation CTP-1 Suction/Flow Capability Verification
External Flood Mitigation CTP-1 Suction Capability Verification
External Flood Mitigation Abnormal Procedure Validation Flow Model Verification CTP-1 Suction Capability Verification
Letter dated February 22, 2010 from Carol S. Goolsby, Vice President Hydro Fleet to Mr. Charles D. Wagner, FERC
IP/0/A/3959/002, Rev. 1
Work Order 01879045 01, IAE Calibrate Amp and Volt Meters
CP/0/A/4002/006
Drawing 3901-AB08, Sheet 8 of 18, Rev. 0
Keowee-Toxaway Project High-Water Operations Process, dated 5/12/10
Procedure Request ONS-2010-003464, Condenser Circulating Water System Valve Stroke Test
HCAP/0/1000/XX1, Jocassee Forebay and Tailrace Rate of Change Alarms and Jocassee Tailrace Level Critical High Alarm Response Plan
Work Order 10703355, Jocassee Forebay/Tailrace Instrument Verification