



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

November 29, 2012

Mr. Kelvin Henderson
Site Vice President
Duke Energy Carolinas, LLC
Catawba Nuclear Station
4800 Concord Road
York, SC 29745-9635

SUBJECT: CATAWBA NUCLEAR STATION - EMERGENCY PREPAREDNESS
INSPECTION REPORT 05000413/2012502 AND 05000414/2012502

Dear Mr. Henderson:

On November 1, 2012, the U.S. Nuclear Regulatory Commission (NRC) completed an emergency preparedness inspection at the Catawba Nuclear Station. The enclosed inspection report documents the inspection results, which were discussed on November 1, 2012, with Mr. S. Batson and other members of plant staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response, if any, will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

Brian Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Docket No. 50-413, 50-414
License No. NPF-35, NPF-52

Enclosure:
IR 05000413/2012502 & 05000414/2012502
w/Att.: Supplemental Information

cc w/encl: (See page 2)

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Letter to Kelvin Henderson from B. Bonser dated November 29, 2012.

SUBJECT: CATAWBA NUCLEAR STATION - EMERGENCY PREPAREDNESS
INSPECTION REPORT 05000413/2012502 AND 05000414/2012502

Distribution w/encl:

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos.: 05000413, 05000414

License Nos.: NPF-35, NPF-52

Report No.: 05000413/2012502, 05000414/2012502

Licensee: Duke Power Company LLC.

Facility: Catawba Nuclear Station, Units 1 and 2

Location: York, SC

Dates: October 29, 2012, through November 1, 2012

Inspectors: M. Speck, Senior Emergency Preparedness Inspector
D. Berkshire, Emergency Preparedness Inspector
W. Loo, Senior Health Physicist
M. Endress, Resident Inspector – Oconee
P. Glenn, Fuel Facility Inspector

Approved by: Brian Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000413/2012502; 05000414/2012502; 10/29/2012 – 11/01/2012; Catawba Nuclear Station, Unit 1 and 2; Emergency Preparedness Baseline Inspection

The report covered an announced inspection by two emergency preparedness inspectors, one senior health physicist, one fuel facility inspector, and one resident inspector. No findings were identified. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4.

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

1EP1 Exercise Evaluation

a. Inspection Scope

Prior to the arrival onsite, the inspectors conducted an in-office review of the exercise objectives and scenario submitted to the NRC to determine if the exercise would test major elements of the emergency plan as required by 10 CFR 50.47(b)(14).

The onsite inspection consisted of the following review and assessment:

- The adequacy of the licensee's performance in the biennial exercise, conducted on October 30, 2012, was reviewed and assessed regarding the implementation of the Risk Significant Planning Standards (RSPS) in 10 CFR 50.47 (b)(4), (5), (9), and (10) which address emergency classification, offsite notification, radiological assessment, and protective action recommendations, respectively.
- The overall adequacy of the licensee's emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities" and Emergency Plan commitments. The facilities assessed were the Control Room Simulator, Technical Support Center (TSC), Operations Support Center (OSC), and Emergency Operations Facility (EOF).
- Other performance areas, such as: the emergency response organization's (ERO) recognition of abnormal plant conditions; command and control, intra- and inter-facility communications; prioritization of mitigation activities; utilization of repair and field monitoring teams; interface with offsite agencies; and the overall implementation of the emergency plan and its implementing procedures.
- Past performance issues from NRC inspection reports and Federal Emergency Management Agency (FEMA)/Department of Homeland Security (DHS) exercise reports to determine the effectiveness of corrective actions as demonstrated during this exercise to ensure compliance with 10 CFR 50.47(b)(14).
- The post-exercise critique process and the presentation to the licensee's senior management conducted on November 1, 2012, to evaluate the licensee's self-assessment of its ERO performance during the exercise and to ensure compliance with 10 CFR 50, Appendix E, Subsection IV.F.2.g.

The inspectors reviewed various documents which are listed in the Attachment. This inspection activity satisfied one inspection sample for the exercise evaluation on a biennial basis.

b. Findings

No findings were identified.

4. OTHER ACTIVITIES

4OA1 Performance Indicator Verification

a. Inspection Scope

The inspectors sampled licensee submittals relative to the Performance Indicators (PIs) listed below for the period January 1, 2011, through September 30, 2012. To verify the accuracy of the PI data reported during that period, PI definitions and guidance contained in NEI 99-02, "Regulatory Assessment Performance Indicator Guideline", Revision 6, were used to confirm the reporting basis for each data element.

Emergency Preparedness Cornerstone

- Emergency Response Organization Drill/Exercise Performance (DEP)
- Emergency Response Organization Readiness (ERO)
- Alert and Notification System Reliability (ANS)

For the specified review period, the inspectors examined data reported to the NRC, procedural guidance for reporting PI information, and records used by the licensee to identify potential PI occurrences. The inspectors verified the accuracy of the DEP through review of a sample of drill and event records. The inspectors reviewed selected training records to verify the accuracy of the ERO PI for personnel assigned to key positions in the ERO. The inspectors verified the accuracy of the PI for ANS reliability through review of a sample of the licensee's records of periodic system tests. Licensee procedures, records, and other documents reviewed within this inspection area are listed in the Attachment.

The inspectors reviewed various documents which are listed in the Attachment. This inspection activity satisfied one inspection sample for each of the three Emergency Preparedness PIs, i.e., DEP, ERO, and ANS, on an annual basis.

b. Findings

No findings were identified.

4OA6 Meetings, Including Exit

On November 1, 2012, the lead inspector presented the inspection results to Mr. S. Batson and other members of the plant staff. The inspectors confirmed that proprietary information was not provided during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee personnel

K. Henderson, Site Vice President
S. Batson, Station Manager
T. Arlow, Emergency Preparedness Manager
M. Austin, Fleet Emergency Preparedness Manager
T. Kuhr, Fleet Emergency Preparedness Engineer
M. Lee, Emergency Preparedness staff
G. McCracken, Emergency Planning staff
T. Pasour, Regulatory Compliance staff
S. Putnam, Organizational Effectiveness Manager

LIST OF DOCUMENTS REVIEWED

1EP1 Exercise Evaluation

Procedures

Catawba Nuclear Station Emergency Plan, Rev. 12-2
HP/0/B/1009/004, Environmental Monitoring for Emergency Conditions Within the Ten Miles Radius of CNS, Rev. 31
RP/0/A/5000/001, Classification of Emergency, Rev. 28
RP/0/A/5000/003, Alert, Rev. 46
RP/0/A/5000/004, Site Area Emergency, Rev. 49
RP/0/A/5000/005, General Emergency, Rev. 50
RP/0/A/5000/006A, Notification to States and Counties from the Control Room, Rev. 26
RP/0/A/5000/006B, Notification to States and Counties from the Technical Support Center, Rev. 029
RP/0/A/5000/007, Natural Disaster and Earthquake, Rev. 35
RP/0/A/5000/010, Conducting a Site Assembly or Preparing the Site for an Evacuation, Rev. 24
RP/0/B/5000/013, NRC Notification Requirements, Rev. 32
RP/0/A/5000/015, Core Damage Assessment, Rev. 7
RP/0/A/5000/018, Emergency Worker Dose Extension, Rev. 2
RP/0/A/5000/020, Technical Support Center (TSC) Activation Procedure, Rev. 31
RP/0/A/5000/024, Operations Support Center (OSC) Activation Procedure, Rev. 26
SH/0/B/2005/001, Emergency Response Offsite Dose Projections, Rev. 6
SH/0/B/2005/002, Protocol for the Field Monitoring Coordinator During Emergency Conditions, Rev. 5
SH/0/B/2005/003, Distribution of Potassium Iodide Tablets in the Event of a Radioiodine Release, Rev. 2
SR/0/B/2000/001, Standard Procedure for Corporate Communications Response to Emergency Operations Facility, Rev. 12

SR/0/B/2000/003, Activation of the Emergency Operations Facility, Rev. 25
SR/0/B/2000/004, Notification to States and Counties from the Emergency Operations Facility, Rev. 16

Records and Data

Control Room, Technical Support Center, Operations Support Center, Joint Information Center, Emergency Operations Facility - Documentation packages (logs, event notification forms, Protective Action Recommendations, Media releases, and Radiological Dose Assessments) 2010, 2011, and 2012 Emergency Exercise and drill scenario documents

Corrective Action Program documents

C-11-00689, Lack of meeting space prevents comprehensive drill critique
 C-11-01081, During drill 11-1, Raddose V dose assessment program failed to operate correctly
 C-11-06203, During 11-3 off-year exercise, "all" units were selected rather than "unit 1" on ENF
 C-12-09219, NRC PI data for ERO Participation incorrect reporting for 7 months of 2011
 C-12-09221, EP FAM has an incorrect participation reference

Section 4OA1: Performance Indicator VerificationProcedures

Emergency Planning Functional Area Manual (EPFAM), Section 3.7, NRC Regulatory Assessment Performance Indicator Guideline – Emergency Preparedness Cornerstone, Rev. 19

Records and Data

DEP opportunities documentation for 3rd, and 4th quarter 2011 and 1st, 2nd, and 3rd quarter 2012
 Siren performance data for 1st, 2nd, 3rd and 4th quarter 2011 and 1st, 2nd, and 3rd quarter 2012
 ERO training records for 3rd and 4th quarter 2011, and 1st and 2nd quarter 2012

Corrective Action documents

PIP-11-02610, 9 siren failures due to power outage

LIST OF ACRONYMS USED

ANS	Alert and Notification System
DEP	Drill and Exercise Performance
DHS	Department of Homeland Security
EOF	Emergency Operations Facility
ERO	Emergency Response Organization
FEMA	Federal Emergency Management Agency
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
OSC	Operations Support Center
PI	Performance Indicator
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center