



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

August 16, 2006

Duke Energy Corporation
ATTN: Mr. Bruce H. Hamilton
Vice President
Oconee Site
7800 Rochester Highway
Seneca, SC 29672

SUBJECT: OCONEE NUCLEAR STATION - NRC INSPECTION REPORT
05000269/2006013, 05000270/2006013 AND 05000287/2006013

Dear Mr. Hamilton:

On July 21, 2006, the U. S. Nuclear Regulatory Commission (NRC) completed an inspection at your Oconee Nuclear Station Units 1, 2 and 3. The enclosed inspection report documents the inspections results, which were discussed with you, and other members of your 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 of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure 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 Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

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

Sincerely,

/RA/

Brian R. Bonser, Chief
Plant Support Branch 2
Division of Reactor Safety

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

Enclosure: (See page 2)

DEC

2

Enclosure: NRC Inspection Report 05000269/2006013, 05000270/2006013 and
05000287/2006013 w/Attachment: Supplemental Information

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(cc w/encl cont'd - See page 3)

DEC

3

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

Enclosure: (See page 2)
(*) - SEE PREVIOUS PAGE FOR CONCURRENCES

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DATE	8/9/2006	8/9/2006	8/9/2006	8/9/2006	8/16/2006	8/ /2006	8/ /2006
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U. S. NUCLEAR REGULATORY COMMISSION
REGION II

Docket Nos.: 50-269, 50-270, 50-287/2006-013

License Nos.: DPR-38, DPR-47, DPR-55

Report No: 05000269, 05000270, 05000287/2006-013

Licensee: Duke Energy Corporation

Facility: Oconee Nuclear Station

Location: 7812B Rochester Highway
Seneca, SC 29672

Dates: July 17 - 21, 2006

Inspectors: L. Miller, Senior Emergency Preparedness Inspector
(Section 1EP1,1EP4)
J. Kreh, Emergency Preparedness Inspector (Section 1EP1, 4OA1)
A. Hutto, Resident Inspector, (Section 1EP1)

Approved by: Brian R. Bonser, Chief
Plant Support Branch 2
Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000269/2006013, 05000270/2006013, 05000287/2006013; 07/17-21/2006; Oconee Nuclear Station, Units 1, 2 and 3; routine baseline inspection.

The report covered an announced inspection by two emergency preparedness inspectors and one resident inspector. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 3, dated July 2000.

A. NRC-Identified and Self-Revealing Findings

Cornerstone: Emergency Preparedness

None

B. Licensee-Identified Violations.

None

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

1EP1 Exercise Evaluation

a. Inspection Scope

Prior to the inspection activity, 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). This inspection activity represents one sample on a biennial cycle.

The onsite inspection consisted of the following review and assessment:

- The adequacy of the licensee's performance in the biennial exercise conducted on May 16, 2006, was reviewed and assessed regarding the implementation of the Risk Significant Planning Standards (RSPSs) in 10 CFR 50.47 (b) (4), (5), (9), and (10), which are 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), Operational Support Center (OSC) and Emergency Operations Facility (EOF).
- Other performance areas besides the RSPS, 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) exercise reports to determine effectiveness of corrective actions as demonstrated during this exercise to ensure compliance with 10 CFR 50.47(b)(14).
- The post-exercise critique conducted July 20, 2006, to evaluate the licensee's self-assessment of its ERO performance during the exercise and to ensure compliance with 10 CFR 50 Appendix E.IV.F.2.g.

The inspectors reviewed various documents which are listed in the Attachment to this report.

b. Findings

No findings of significance were identified.

1EP4 Emergency Action Level (EAL) and Emergency Plan Changes

a. Inspection Scope

The inspector's review of revisions to the emergency plan, implementing procedures and EAL changes was performed to determine that changes had not decreased the effectiveness of the plan. The inspectors also evaluated the associated 10 CFR 50.54(q) reviews associated with non-administrative emergency plan, implementing procedures and EAL changes. The Oconee Nuclear Station Emergency Plan, revisions 05-02, 05-03, 05-04, 05-05, 06-01, 06-02, 06-03 were reviewed.

The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 04, "Emergency Action Level and Emergency Plan Changes." The applicable PS, 10 CFR 50.47(b)(4) and its related 10 CFR 50, Appendix E requirements were used as reference criteria. The criteria contained in NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," Revision 1, Regulatory Guide 1.101 were also used as references. This inspection activity represents one sample on an annual basis.

The inspectors reviewed various documents which are listed in the Attachment to this report.

b. Findings

No findings of significance were identified.

4. OTHER ACTIVITIES

4OA1 Performance Indicator (PI) Verification

a. Inspection Scope

The inspectors reviewed the licensee's procedure for developing the data for the Emergency Preparedness PIs which are: (1) DEP; (2) ERO Drill Participation; and (3) Alert and Notification System (ANS) Reliability. The inspectors examined data reported to the NRC for the period April, 2005 to March, 2006. Procedural guidance for reporting PI information and records used by the licensee to identify potential PI occurrences were also reviewed. The inspectors verified the accuracy of the PI for ERO drill and exercise performance through review of a sample of drill and event records. The inspectors reviewed selected training records to verify the accuracy of the PI for ERO drill participation for personnel assigned to key positions in the ERO. The inspectors verified the accuracy of the PI for alert and notification system reliability through review of a sample of the licensee's records of periodic system tests.

The inspection was conducted in accordance with NRC Inspection Procedure 71151, "Performance Indicator Verification." The applicable planning standard, 10 CFR 50.9 and Nuclear Energy Institute (NEI) 99-02, Revisions 3 and 4, "Regulatory Assessment

Performance Indicator Guidelines,” were used as reference criteria. This inspection activity represents three samples on an annual basis.

The inspectors reviewed various documents which are listed in the Attachment to this report.

b. Findings

No findings of significance were identified.

4OA6 Meetings, including Exit

On July 21, 2006, the lead inspector for the emergency preparedness inspection presented the inspection results to the licensee, and other members of the licensee’s staff. The inspectors confirmed that proprietary information was not provided or taken during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee personnel

B. Hamilton, Oconee Site Vice President
D. Baxter, Station Manager
L. Nicholson, Safety Assurance Manager
R. Brown, Manager - Emergency Planning
R. Glover, Engineering Manager
N. Clarkson, Regulatory Compliance (Engineer)

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

None

Closed

None

Discussed

None

LIST OF DOCUMENTS REVIEWED

Section 1EP1: Exercise Evaluation

Plans and Procedures

RP/0/B/1000/015A, Offsite Communication from the Control Room, Rev. 9
RP/0/B/1000/015B, Offsite Communication from the Technical Support Center, Rev. 9
SH/0/B/2005/002, Protocol for the Field Monitoring Coordinator During Emergency Conditions, Rev. 4
Oconee Nuclear Site Emergency Action Level Description Guidelines, Rev. 5
RP/0/B/1000/010, Procedure for Emergency Evacuation/Relocation of Site Personnel, Rev. 6
RP/0/B/1000/009, Procedure for Site Assembly, Rev. 12
RP/0/B/1000/002, Control Room Emergency Coordinator Procedure, Rev. 14
HP/0/B/1009/018, Off-site Dose Projections, Rev. 21
Nuclear System Directive 117, Emergency Response Organization Staffing, Training, and Responsibilities, Rev. 6
OMP 1-14, Notifications, Rev. 11
RP/0/B/1000/019, Technical Support Center Emergency Coordinator Procedure, Rev. 20
SR/0/B/2000/003, Activation of the Emergency Operations Facility, Rev. 017 (DRAFT)
SR/0/B/2000/004, Notification to States and Counties from the Emergency Operations Facility, Rev. 010 (DRAFT)
SH/0/B/2005/001, Emergency Response Offsite Dose Projections, Rev. 005 (DRAFT)
SH/0/B/2005/003, Distribution of Potassium Iodide Tablets in the Event of a Radioiodine Release, Rev. 001 (DRAFT)

Miscellaneous Records and Data

Exercise Notification forms (Alert, Site Area Emergency, General Emergency, Termination), 07/18/2006
Various position logs and records from the exercise
Critique packages for Evaluated Drills and Exercises in 2004, 2005
Critique packages for Evaluated Drills 06-01 and 06-02
Management Presentation – 2006 ONS Evaluated Exercise
Nuclear Power Plant Emergency Notification Form (Messages 1-7) for State and local agencies

Problem Investigation Process (PIP)

O-06-04575, Use of Emergency Action Level Description Guidelines Manual to complete notification form
O-06-04582, RSPS issue related to Dose Assessment TSC and EOF data did not match Field Monitoring Team data
O-06-04581, RSPS issue related to Dose Assessment TSC and EOF were using different assumptions to perform dose calculations
O-06-04579, RSPS issue related to Emergency Classification – unsuccessful classification of Alert and incorrect basis for General Emergency
O-06-04579, 07/18/06 Exercise Planning Standard Issues

Section 1EP4: Emergency Action Level (EAL) and Emergency Plan Changes

Procedures

Emergency Plan Rev. 2005-002
Emergency Plan Rev. 2005-003
Emergency Plan Rev. 2005-004
Emergency Plan Rev. 2005-005
Emergency Plan Rev. 2006-001
Emergency Plan Rev. 2006-002
Emergency Plan Rev. 2006-003

Records and Data

10 CFR 50.54(q) Evaluation 2005-002
10 CFR 50.54(q) Evaluation 2005-003
10 CFR 50.54(q) Evaluation 2005-004
10 CFR 50.54(q) Evaluation 2005-005
10 CFR 50.54(q) Evaluation 2006-001
10 CFR 50.54(q) Evaluation 2006-002
10 CFR 50.54(q) Evaluation 2006-003

Section 4OA1: Performance Indicator (PI) Verification

Procedures

Duke Energy Emergency Planning Functional Area Manual: Section 3.7, NRC Regulatory Assessment Performance Indicator Guideline – Emergency Preparedness Cornerstone, Rev. 11

Records and Data

Documentation (scenario, time line, event notification forms, critique report) of ERO drill on 01/25/2006
Documentation of CRS evaluations for DEP in July - August 2005
Documentation of CR Offsite Communicator evaluations for DEP in July - August 2005
Selected training records of drill/exercise participation by ERO personnel during 2005-2006
Siren system test records for April 2005 - March 2006

LIST OF ACRONYMS

ANS	Alert and Notification System
DEP	Drill/Exercise Performance
EAL	Emergency Action Level
EOF	Emergency Operations Facility
ERO	Emergency Response Organization
IMC	Inspection Manual Chapter
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
OSC	Operational Support Center
PI	Performance Indicator
PS	Planning Standard
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center
FEMA	Federal Emergency Management Agency