



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

January 14, 2011

Mr. J. Randy Johnson
Vice President - Farley
Southern Nuclear Operating Company, Inc.
7388 North State Highway 95
Columbia, AL 36319

SUBJECT: JOSEPH M. FARLEY NUCLEAR PLANT - NRC EMERGENCY
PREPAREDNESS INSPECTION REPORT 05000348/2010501 and
05000364/2010501

Dear Mr. Johnson:

On December 17, 2010, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Joseph M. Farley Nuclear Plant, Units 1 and 2. The enclosed inspection report documents the inspection results which were discussed on December 17, 2010, 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 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.: 50-348, 50-364
License No.: NPF-2, NPF-8

Enclosure: Inspection Report 05000348/2010501 and 05000364/2010501
w/Attachment: Supplemental Information

cc w/encl.: (See page 2)

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Distribution w/encl:

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SIGNATURE	RA	RA	RA	RA	RA	
NAME	JBeavers	MSpeck	RBaldwin	JSowa	BBonser	
DATE	01/14/2011	01/14/2011	01/14/2011	01/14/2011	01/14/2011	
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	

U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos.: 50-348, 50-364

License Nos.: NPF-2, NPF-8

Report No.: 05000348/2010501 and 05000364/2010501

Licensee: Southern Nuclear Operating Company, Inc.

Facility: Joseph M. Farley Nuclear Plant, Units 1 and 2

Location: Columbia, AL

Dates: December 6, 2010 through December 17, 2010

Inspectors: J. Beavers, Emergency Preparedness Inspector
R. Baldwin, Senior Operations Engineer
M. Speck, Resident Inspector
J. Sowa, Resident Inspector

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

Enclosure

SUMMARY OF FINDINGS

IR 05000348/2010-501 and 05000364/2010-501; 12/06/2010 – 12/17/2010; Joseph M. Farley Nuclear Plant, Units 1 and 2; Baseline Inspection.

The report covered an announced inspection by a regional emergency preparedness inspector, two (2) resident inspectors and a senior operations engineer.

A. NRC-Identified and Self-Revealing Findings

No findings were identified.

B. Licensee-Identified Violations

None

Enclosure

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness (EP)

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 Nuclear Regulatory Commission (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 December 8, 2010, 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 December 16, 2010, to evaluate the licensee's self-assessment of its Emergency Response Organization (ERO) performance during the exercise and to ensure compliance with 10 CFR 50, Appendix E, Subsection IV.F.2.g.

Enclosure

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.

1EP4 Emergency Action Level and Emergency Plan Changes

a. Inspection Scope

Since the last NRC inspection of this program area, revisions 50 and 51 of the Emergency Plan were implemented based on the licensee's determination, in accordance with 10 CFR 50.54(q), that the changes resulted in no decrease in the effectiveness of the Plan, and that the revised Plan continued to meet the requirements of 10 CFR 50.47(b) and Appendix E to 10 CFR Part 50. The inspectors conducted a sampling review of the implementing procedure changes made between September 1, 2009, and November 30, 2010, to evaluate for potential decreases in effectiveness of the Plan. However, this review was not documented in a Safety Evaluation Report and does not constitute formal NRC approval of the changes. Therefore, these changes remain subject to future NRC inspection in their entirety.

The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 04, "Emergency Action Level and Emergency Plan Changes." The applicable planning standard (PS), 10 CFR 50.47(b)(4) and its related 10 CFR 50, Appendix E requirements were used as reference criteria.

The inspectors reviewed various documents which are listed in the Attachment. This inspection activity satisfied one inspection sample for the emergency action level and emergency plan changes on an annual 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 July 1, 2009, through September 30, 2010. 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, was 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 (3) Emergency Preparedness PIs, i.e., DEP, ERO, and ANS on an annual basis.

b. Findings

No findings were identified.

4OA6 Meetings, Including Exit

On December 17, 2010, the lead inspector presented the inspection results to Mr. R. Johnson and other members of licensee management. The inspector confirmed that proprietary information was not provided or examined during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee personnel:

D. Christiansen, Training Manager
 J. Hutto, Operations Manager
 J. Horn, Site Support Manager
 J.R. Johnson, Site Vice President
 S. Odom, Emergency Preparedness Supervisor
 W. Oldfield, Principal Licensing Engineer
 L. Smith, Maintenance Manager
 C. Thornell, Engineering Director

LIST OF DOCUMENTS REVIEWED

1EP1 Exercise Evaluation

Procedures

NMP-EP-109, Protective Action Recommendations, Rev. 3.0

Records and Data

Control Room, Technical Support Center, Operations Support Center, Emergency Operations Facility, Joint Information Center - Documentation packages (logs, event notification forms, Protective Action Recommendations, Media releases, and Radiological Dose Assessment)

Condition Reports

CR 2010118332, confusion over dose assessment input related to fuel over temperature
 CR 2010118334, unanticipated PAR and assessment of isotopic library mixes
 CR 2010118335, inter facility communications
 CR 2010118336, initial notification lack of documentation
 CR 2010118347, field monitoring team utilization weakness
 CR 2010118341, Shift Manager command and control issue delayed fire brigade dispatch
 CR 2010118338, ENS communicator notification weaknesses
 CR 2010118348, OSC decision and control issue delayed habitability determination
 CR 2011100168, priority mismatches between facilities
 CR 2011100169, Control Room equipment unexpected equipment auto starts

1EP4 Emergency Action Level and Emergency Plan Changes

Procedures

NMP-AD-008, Applicability Determinations, Rev. 10
 Joseph M. Farley Nuclear Plant Emergency Plan, Rev. 49, 50 and 51
 FNP-0-EIP-9.2, Emergency Classification, Rev. 7, 8 and 9
 NMP-EP-110-GL01, FNP EALs – ICs, Threshold Value and Basis, Rev. 1 and 2

Change Packages

Joseph M. Farley Nuclear Plant Emergency Plan, Rev. 50
 Joseph M. Farley Nuclear Plant Emergency Plan, Rev. 51
 FNP-0-EIP-9.2, Emergency Classification, Rev. 8
 FNP-0-EIP-9.2, Emergency Classification, Rev. 9
 NMP-EP-110-GL01, FNP EALs – ICs, Threshold Value and Basis, Rev. 1
 NMP-EP-110-GL01, FNP EALs – ICs, Threshold Value and Basis, Rev. 2
 FNP-0-EIP-0.0, Emergency Organization, Rev. 25
 FNP-0-EIP-6, TSC Setup and Activation, Rev. 44
 FNP-0-EIP-9.0, Emergency Actions, Rev. 1
 FNP-0-EIP-10.0, Evacuation and Personnel Accountability, Rev. 39
 FNP-0-EIP-30.0, Post Accident Core Damage Assessment, Rev. 13
 FNP-0-EPP-1.0, Tone Alert Radio and Siren Operation, Rev. 2
 FNP-0-EPP-1.1, FNO Alert and Notification System (ANS) Program, Rev 4
 FNP-0-EPP-1.1, FNO Alert and Notification System (ANS) Program, Rev 5
 FNP-0-EPP-1.2, ANS Testing and Maintenance, Rev. 1
 FNP-0-EPP-1.2, ANS Testing and Maintenance, Rev. 2
 FNP-0-EPP-1.2, ANS Testing and Maintenance, Rev. 3
 FNP-0-EPP-1.2, ANS Testing and Maintenance, Rev. 4

Condition Reports

CR 20-10118241, inadequate 10 CFR 50.54(q) evaluations

Section 40A1: Performance Indicator VerificationProcedures

FNP-0-AP-54, Preparation and Reporting of NRC Performance Indicator Data and NRC
 Operating Data, Rev. 14
 FNP-0-EPP-1.2, ANS Testing and Maintenance, Rev. 1
 FNP-0-EIP-0.0, Emergency Organization, Rev. 25
 FNP-0-3.0, Duties of the Emergency Director, Rev. 18
 FNP-0-EIP-6.0, TSC Setup and Activation, Rev. 44
 FNP-0-EIP-9.1, Automated Dose Assessment Method, Rev. 13
 FNP-0-EIP-14.0, Personnel Movement, Relocation, Re-Entry, and Site Evacuation, Rev. 25
 FNP-0-EIP-30.0, Post Accident Core Damage Assessment, Rev. 13
 NMP-EP-001, Corporate Emergency Response Organization (ERO), Rev. 6
 NMP-EP-101, Emergency Operations (EOF) Activation, Rev. 3
 NMP-EP-104, Dose Assessment, Rev. 3
 NMP-EP-110, Emergency Classification Determination and Initial Action, Rev. 1
 NMP-EP-112, Protective Action Recommendations, Rev. 1
 NMP-EP-202, Emergency Communications Organization Activation and Notification, Rev. 4
 NMP-EP-303, Drill and Exercise Standards, Rev. 5

Records and Data

DEP opportunities documentation from 3rd Quarter 2009, through 3rd Quarter 2010

Drill and exercise participation records of ERO personnel from 3rd Quarter 2009 through 3rd Quarter 2010

Siren test data from 3rd Quarter 2009, through 3rd Quarter 2010

Various ERO Personnel Qualification and Participation records

Condition Reports

CR 2010118218, correct siren failures in CR 2009112442

CR 2010118221, missing ERO training records

LIST OF ACRONYMS

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