



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

May 23, 2012

Mr. T. A. Lynch
Vice President
Southern Nuclear Operating Company, Inc.
Joseph M. Farley Nuclear Plant
P.O. Drawer 470, BIN B500
Ashford, AL 36312

SUBJECT: JOSEPH M. FARLEY NUCLEAR PLANT - NRC EMERGENCY
PREPAREDNESS INSPECTION REPORT 05000348/2012502 AND
05000364/2012502

Dear Mr. Lynch:

On May 11, 2012, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Joseph M. Farley Nuclear Plant. The enclosed inspection report documents the inspection results which were discussed on May 11, 2012, 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, 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 05000348/2012502
and 05000364/2012502 w/Att.: Supp. Info

cc w/encl.: (See page 2)

May 23, 2012

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DISTRIBUTION W/ENCL
See page 4

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DATE	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012
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Letter to T. A. Lynch from Binoy Desai dated May 23, 2012.

SUBJECT: JOSEPH M. FARLEY NUCLEAR PLANT - NRC EMERGENCY
PREPAREDNESS INSPECTION REPORT 05000348/2012502 AND
05000364/2012502

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos: 05000348, 05000364

License Nos: NPF-2, NPF-8

Report No: 05000348/2012502 and 05000364/2012502

Licensee: Southern Nuclear Operating Company, Inc.

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

Location: Columbia, AL

Dates: May 7, 2012, through May 11, 2012

Inspectors: M. Speck, Senior Emergency Preparedness Inspector
J. Beavers, Emergency Preparedness Inspector
T. Morrissey, Senior Resident Inspector

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

Enclosure

SUMMARY OF FINDINGS

IR 05000348/2012502, 05000364/2012502; 05/07/2012 – 05/11/2012; Joseph M. Farley
Nuclear Plant, Units 1 and 2; Baseline Inspection.

The report covered an announced inspection by two emergency preparedness inspectors and one senior 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, dated December 2006.

A. NRC-Identified and Self-Revealing Findings

None

B. Licensee-Identified Violations

None

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 May 9, 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 May 10, 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.

Enclosure

b. Findings

No findings were identified.

4. OTHER ACTIVITIES

4OA1 Performance Indicator Verificationa. Inspection Scope

The inspectors sampled licensee submittals relative to the Performance Indicators (PIs) listed below for the period October 1, 2011, through March 31, 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, 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 May 11, 2012, the lead inspector presented the inspection results to Mr. T. Lynch 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

C. Boone, Fleet Emergency Preparedness Manager
B. Boyd, Emergency Planning Specialist
C. Gayheart, Plant Manager
D. Gilbert, Emergency Planning Assistant
L. Hogg, Licensing Specialist
J. Horn, Site Support Manager
J. Hutto, Engineering Director
T. Lynch, Site Vice President
R. Odom, Operations Training Lead Instructor
S. Odom, Emergency Preparedness Supervisor
W. Oldfield, Principal Licensing Engineer
D. Simmons, Emergency Preparedness Specialist
C. Thornell, Operations Manager

ITEMS OPENED, CLOSED, AND DISCUSSED

None

LIST OF DOCUMENTS REVIEWED

1EP1 Exercise Evaluation

Procedures

NMP-EP-101, Emergency Operations Facility (EOF) Activation, Ver. 3
NMP-EP-104, Dose Assessment, Ver. 4
NMP-EP-112, Protective Action Recommendations, Ver. 2
NMP-EP-110, Emergency Classification Determination and Initial Action, Ver. 3
NMP-EP-110-GL01, FNP EALs-ICs, Threshold Values and Basis, Ver. 2
NMP-EP-111, Emergency Notifications, Ver. 7
NMP-EP-111-001, Emergency Notification Network Communicator Instructions-Farley, Ver. 3
NMP-EP-202, Emergency Communications Organization Activation and Notification, Rev. 4
NMP-EP-303, Drill and Exercise Standards, Ver. 8
FNP-0-EP-0.0, Farley Nuclear Plant Emergency Plan, Rev. 54
FNP-0-EIP-0.0, Emergency Organization, Ver. 28
FNP-0-EIP-4.0, Health Physics Support to the Emergency Plan, Ver. 44
FNP-0-EIP-5.0, Maintenance Support to the Emergency Plan, Ver. 5
FNP-0-EIP-6.0, TSC Setup and Activation, Ver. 45
FNP-0-EIP-7.0, Security Support to the Emergency Plan, Ver. 22
FNP-0-EIP-9.1, Automated Dose Assessment Method, Ver. 13
FNP-0-EIP-9.3, Personal Computer-Automated Dose Assessment Methods, Ver. 25
FNP-0-EIP-9.5, Determining Technical Specifications/ODCM Radioactive Release Values,
Ver. 10
FNP-0-EIP-10.0, Evacuation, Personnel Accountability, and Site Dismissal, Ver. 43
FNP-0-EIP-14.0, Emergency Response Teams, Ver. 28

FNP-0-EIP-30.0, Post Accident Core Damage Assessment, Ver. 14
 FNP-0-SOP-0.0, General Instructions to Operations Personnel, Ver. 150
 FNP-1-EEP-1, Loss of Reactor or Secondary Coolant, Rev. 31
 FNP-1-AOP-1.0, RCS Leakage, Rev. 20
 FNP-1-AOP-9.0, Loss of Component Cooling Water, Rev. 23
 FNP-1-AOP-10.0, Loss of Service Water, Rev. 16
 FNP-1-AOP-17.0, Turbine Load Reject, Rev. 23
 FNP-1-AOP-30.0, Refueling Accident, Rev. 18
 FNP-1-AOP-100, Instrument Malfunction, Rev. 12
 FNP-1-EEP-0, Reactor Trip or Safety Injection, Rev. 43
 FNP-1-EEP-1, Loss of Reactor or Secondary Coolant, Rev. 30
 FNP-1-FRP-P.1, Response to Imminent Pressurized Thermal Shock Conditions, Rev. 19
 FNP-1-FRP-S.1, Response to Nuclear Power Generation/ATWT, Rev. 25
 FNP-1-CSF-0, Critical Safety Function Status Trees, Rev. 17

Records and Data

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

Corrective Action Program

CR 454557, Release not on Alert notification form
 CR 454602, EIP-9.1 stability class table has range overlap
 CR 454607, Pre-drill table-top training practice
 CR 454617, Drill scenario error
 CR 455139, Use standard turnover form for exercise initial conditions
 CR455155, Typographical error in NMP-EP-110, page 9
 CR 455163, Potential error trap with EALs and Bases in Emergency Plan
 CR 455167, Press release questions from having Unit 2 remaining on-line
 CR 455170, Level of engagement of ERO with NRC participants
 CR 452176, DEP documentation error for 1Q12
 CR 452550, Site PA system volume low in some areas
 CR 455173, Lack of MET data variation in simulator training drills
 CR 455184, PIO getting information from Emergency Director
 CR 455186, WebEOC Significant Events board usage
 CR 455187, Conversations during facility briefings
 CR 455188, Late declaration PA announcements
 CR 455189, ENN phone issue
 CR 455192, NOUE and Alert NRC notification forms not located
 CR 455195, Drill control issues
 CR 455197, Add FMT dose tracking form
 CR 455199, FMT van required fueling
 CR 455200, EOF manager exited facility without turnover
 CR 455496, Procedural guidance to start containment spray pump

Section 40A1: Performance Indicator Verification

Procedures

FNP-0-AP-54, Preparation and Reporting of NRC Performance Indicator Data and NRC
 Operating Data, Rev. 14

Records and Data

DEP opportunities documentation for 4th quarter 2011, and 1st quarter 2012
 Drill and exercise participation records of ERO personnel for 4th quarter 2011, and
 1st quarter 2012
 Siren test data for 4th quarter 2011, and 1st quarter 2012
 2011 ERO Activation Call-in Test (after-hours) results – 4th quarter
 Various ERO Personnel Participation records and travel time estimates
 CR 384650, Loss of Power to Gordon Emergency Siren
 CR 373839, Issues with Oct. 4, 2011, Call-in Drill
 CR 329473, Incorrect Classification
 CR339356, DEP and Participation PI Errors
 CR 345863, Notification Errors

LIST OF ACRONYMS USED

ANS	Alert and Notification System
CFR	Code of Federal Regulations
DEP	Drill and Exercise Performance
DHS	Department of Homeland Security
EAL	Emergency Action Level
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
PARS	Publicly Available Records
PI	Performance Indicator
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center