



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

September 1, 2010

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

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN – JOSEPH M. FARLEY NUCLEAR PLANT

Dear Mr. Johnson:

On August 10, 2010, the NRC staff completed its performance review of Joseph M. Farley Nuclear Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter, marked as "Official Use Only - Security Related Information," will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter for Unit 1 was within the Regulatory Response column of the NRC's Action Matrix. The Mitigating Systems Performance Index (MSPI), Emergency AC systems crossed the threshold from Green to White in the first quarter 2008 due to failures of the 1B Emergency Diesel Generator (EDG). A Supplemental Inspection was conducted for Unit 1 during the third quarter 2008 using Inspection Procedure 95001 "Inspection For One Or Two White Inputs In A Strategic Performance Area".

Unit 2 plant performance was within the Licensee Response column of the NRC's Action Matrix in the most recent quarter based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green).

Additionally, the staff reviewed your progress in addressing a substantive cross-cutting issue (SCCI) in the area of human performance. This SCCI was identified during the 2009 end of cycle assessment period due to 4 findings with documented cross-cutting aspects in the area of human performance and a cross-cutting issue in the aspect of procedural compliance H.4(b). In evaluating the scope of efforts and progress in addressing the cross-cutting issue, the staff determined that you appropriately identified the cross-cutting theme and took actions to address it and recognized the cross-cutting theme and scheduled actions based on judgment and risk insights to address this theme. However, the NRC determined that the corrective actions have not been in place long enough to ensure sustainable improvement in the procedure adherence area. In addition, effectiveness reviews have not been completed which would provide a qualitative metric indicating improvements in the procedure adherence area. Therefore, the

staff has concluded that the substantive cross-cutting issue in the Human Performance area should remain open. The Human Performance cross-cutting issue will continue to be addressed in the plant's baseline inspection as an area of focus. In addition, a semi-annual trend review of the procedure adherence issues will assess your efforts to ensure effective corrective action implementation, timeliness, and effectiveness reviews.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2011. The enclosed inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle review. We also plan on conducting Temporary Instruction (TI) 2515/172 "Reactor Coolant System Dissimilar Metal Butt Welds," TI 2515/179 "Verification of Licensee Responses to NRC Requirements for Inventories of Materials Tracked in National Source Tracking System," Independent Spent Fuel Storage Installation Inspections, and Operator Licensing Examinations.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Scott Shaeffer at 404-997-4521 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/Joel T. Munday RA for/

Leonard D. Wert, Jr., Director
Division of Reactor Projects

Docket Nos.: 50-348 and 50-364
License Nos.: NPF-2 and NPF-8

Enclosure: Farley Inspection/Activity Plan (09/01/2010 – 12/31/2011)

cc w/encl: (See page 3)

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ADAMS: Yes ACCESSION NUMBER: _____ SUNSI REVIEW COMPLETE

OFFICE	RII:DRP	RII:DRP	RII:DRP	RII:DRP			
SIGNATURE	TXL /RA/	SDR /RA for/	JTM /RA/	LDW /RA for/			
NAME	TLighty	SShaeffer	JMunday	LWert			
DATE	08/31/2010	08/31/2010	09/01/2010	09/01/2010			
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

cc w/encl:

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Letter to J. Randy Johnson from Leonard D. Wert, Jr. dated September 1, 2010

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FARLEY NUCLEAR PLANT

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