



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

September 1, 2011

Mr. L. Mike Stinson  
Vice President - Farley  
Southern Nuclear Operating Company, Inc.  
7388 North State Highway 95  
Columbia, AL 36319

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR JOSEPH M. FARLEY NUCLEAR  
PLANT UNITS 1 AND 2 (REPORT 05000348/2011006 AND 05000364/2011006)

Dear Mr. Stinson:

On August 9, 2011, the NRC staff completed its performance review of Joseph M. Farley Nuclear Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2010, through June 30, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined the performance at Farley Unit 1 and Unit 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., Green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility. Farley Unit 1 during the third and fourth quarter of 2010 was within the ROP Regulatory Response Column of the Action Matrix because 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). The Unit 1 Emergency AC MSPI returned to Green during the first quarter of 2011.

The enclosed inspection plan lists the inspections scheduled through December 31, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. In addition to ROP baseline inspection activities, we also plan on conducting Initial Operator License Examinations.

In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here:

<http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21<sup>st</sup> Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The Commission is currently reviewing the Task Force's recommendations to determine whether additional actions may be warranted.

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).

Please contact me at 404-997-4548 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

James Hickey, Acting Chief  
Projects Branch 2  
Division of Reactor Projects

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

Enclosure: Farley Inspection/Activity Plan (09/01/2011 – 12/31/2012)

cc w/encl: (See page 3)

cc w/encl:

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(cc w/encl continued next page)

(cc w/encl continued)

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**Farley**  
**Inspection / Activity Plan**

09/01/2011 - 12/31/2012

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>CDBI - COMPONENT DESIGN BASES INSPECTION</b>		<b>10</b>
1, 2	08/29/2011	09/02/2011	IP 7111121	Component Design Bases Inspection	
1, 2	09/12/2011	09/16/2011	IP 7111121	Component Design Bases Inspection	
1, 2	09/26/2011	09/30/2011	IP 7111121	Component Design Bases Inspection	
			<b>EB3 ISI - UNIT 2 IN-SERVICE INSPECTION</b>		<b>1</b>
2	10/17/2011	10/21/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EB3SGISI - UNIT 2 SG IN-SERVICE INSPECTION</b>		<b>2</b>
2	10/24/2011	10/28/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PSB1-RP - RP HAZARD ASSESSMENT</b>		<b>2</b>
1, 2	10/24/2011	10/28/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			<b>PSB1-RP - RP PUBLIC RADIATION PROTECTION INSP</b>		<b>5</b>
1, 2	12/12/2011	12/16/2011	IP 71124.04	Occupational Dose Assessment	
1, 2	12/12/2011	12/16/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	12/12/2011	12/16/2011	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	12/12/2011	12/16/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	12/12/2011	12/16/2011	IP 71151	Performance Indicator Verification	
			<b>7111108 - FAR 1 ISI</b>		<b>1</b>
1	04/02/2012	04/06/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PSB1-RP - OCCUPATIONAL RP BASELINE WK1</b>		<b>3</b>
1, 2	04/02/2012	04/06/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/02/2012	04/06/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/02/2012	04/06/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/02/2012	04/06/2012	IP 71124.04	Occupational Dose Assessment	
1, 2	04/02/2012	04/06/2012	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	04/02/2012	04/06/2012	IP 71151	Performance Indicator Verification	
			<b>EB3SGISI - UNIT 1 SG INSERVICE INSPECTION</b>		<b>1</b>
1	04/09/2012	04/13/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PSB1-RP - OCCUPATIONAL RP BASELINE WK2</b>		<b>3</b>
1, 2	04/16/2012	04/20/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/16/2012	04/20/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/16/2012	04/20/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/16/2012	04/20/2012	IP 71124.04	Occupational Dose Assessment	
1, 2	04/16/2012	04/20/2012	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	04/16/2012	04/20/2012	IP 71151	Performance Indicator Verification	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

Enclosure

**Farley**  
**Inspection / Activity Plan**  
**09/01/2011 - 12/31/2012**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>PSB1EP - EMERGENCY PREPAREDNESS EXERCISE</b>		<b>3</b>
1, 2	05/07/2012	05/11/2012	IP 7111401	Exercise Evaluation	
1, 2	05/07/2012	05/11/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	05/07/2012	05/11/2012	IP 71151	Performance Indicator Verification	
			<b>OL EXAM - INITIAL EXAM PREP</b>		<b>5</b>
1	05/28/2012	06/01/2012	V23373	FARLEY / JUNE 2012 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 1</b>		<b>5</b>
1	06/18/2012	06/22/2012	V23373	FARLEY / JUNE 2012 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 2</b>		<b>5</b>
1	06/25/2012	06/29/2012	V23373	FARLEY / JUNE 2012 EXAM AT POWER FACILITIES	
			<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>
1, 2	09/10/2012	09/13/2012	IP 7111111B	Licensed Operator Requalification Program	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

Enclosure