



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

August 31, 2006

Southern Nuclear Operating Company, Inc.  
ATTN: Mr. H. L. Sumner  
Vice President - Farley Project  
P. O. Box 1295  
Birmingham, AL 35201

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

Dear Mr. Sumner:

On August 3, 2006, the NRC staff completed its performance review of the Joseph M. Farley Nuclear Plant for the first half of the calendar year (CY) 2006 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 the enclosed inspection plan do not include physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" will include the physical protection review and a resultant inspection plan.

Overall, Farley Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for both Farley Units for the most recent quarter was in the Regulatory Response Column of the NRC's Action Matrix due to a Mitigating Systems Performance Index, Cooling Water Systems PI crossing the Green/White threshold in the 2<sup>nd</sup> quarter of CY 2006. This White PI, involving the Mitigating System Cornerstone, reflected performance at a level requiring increased regulatory response. Therefore, in addition to the reactor oversight process (ROP) baseline inspection program at your facility, the NRC plans to conduct a supplemental inspection in accordance with IP 95001, "Inspection for One or Two White Inputs In a Strategic Performance Area," as required by the NRC's Action Matrix. We will coordinate with you the scheduling of the supplemental inspection.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2008. In addition to the baseline inspections and the supplemental inspection mentioned above, the plan currently includes non-ROP inspections involving containment sump blockage, Mitigating System Performance Index, and your Independent Spent Fuel Storage Installation. The inspection plan is provided to minimize the resource impact on your staff and 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 twelve months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

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 the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Scott Shaeffer at (404) 562-4521 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Charles A. Casto, Director  
Division of Reactor Projects

Docket No.: 50-348, 50-364, and 72-42  
Licensee No.: NPF-2, NPF-8

Enclosure: Farley Inspection/Activity Plan

cc w/encl: (See page 3)

SNC

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**Farley**  
**Inspection / Activity Plan**  
**09/01/2006 - 03/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>PS2-EP</b>	<b>- EMERGENCY PREPAREDNESS EXERCISE</b>	<b>3</b>			
1,2	IP 7111401	Exercise Evaluation		09/11/2006	09/15/2006	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		09/11/2006	09/15/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		09/11/2006	09/15/2006	Baseline Inspections
	<b>PB2TI169</b>	<b>- MSPI VERIFICATION</b>	<b>2</b>			
1,2	IP 2515/169	Mitigating Systems Performance Index Verification		10/01/2006	12/31/2006	Safety Issues
	<b>OL PREP</b>	<b>- INITIAL EXAM PREPARATION</b>	<b>2</b>			
1	V23261	FARLEY/OCTOBER 2006 EXAM AT POWER FACILITIES		10/02/2006	10/06/2006	Not Applicable
	<b>OL EXAM</b>	<b>- INITIAL EXAM</b>	<b>2</b>			
1	V23261	FARLEY/OCTOBER 2006 EXAM AT POWER FACILITIES		10/23/2006	10/27/2006	Not Applicable
	<b>PSB1-RP</b>	<b>- RP PUBLIC PRE-INSPECTION VISIT/ISFSI</b>	<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		01/03/2007	01/05/2007	Baseline Inspections
	<b>PSB1-RP</b>	<b>- RP PUBLIC BASELINE INSPECTION</b>	<b>4</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		01/22/2007	01/26/2007	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/22/2007	01/26/2007	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		01/22/2007	01/26/2007	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		01/22/2007	01/26/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		01/22/2007	01/26/2007	Baseline Inspections
	<b>EB3-ISI</b>	<b>- UNIT 2 INSERVICE INSPECTION</b>	<b>2</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		04/16/2007	04/20/2007	Baseline Inspections
	<b>EB3SGISI</b>	<b>- UNIT 2 STEAM GENERATOR ISI</b>	<b>2</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		04/23/2007	04/27/2007	Baseline Inspections
	<b>EB1-SUMP</b>	<b>- PWR CONTAINMENT SUMP BLOCKAGE TI (U-2)</b>	<b>1</b>			
2	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02		04/29/2007	05/04/2007	Safety Issues
	<b>60855.1</b>	<b>- OPERATIONAL ISFSI INSPECTION BY RESIDENT</b>	<b>1</b>			
1	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		07/09/2007	07/13/2007	Other Routine
	<b>PB2-PI&amp;R</b>	<b>- BIENNIAL PI&amp;R</b>	<b>4</b>			
1,2	IP 71152B	Identification and Resolution of Problems		08/06/2007	08/10/2007	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		08/20/2007	08/24/2007	Baseline Inspections
	<b>PS2-EP</b>	<b>- EMERGENCY PREPAREDNESS INSPECTION</b>	<b>1</b>			
1,2	IP 7111402	Alert and Notification System Testing		09/10/2007	09/14/2007	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		09/10/2007	09/14/2007	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		09/10/2007	09/14/2007	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		09/10/2007	09/14/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		09/10/2007	09/14/2007	Baseline Inspections

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

Enclosure

**Farley**  
**Inspection / Activity Plan**  
**09/01/2006 - 03/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>OL PREP - INITIAL EXAM PREPARATION</b>		<b>3</b>			
1	V23273	FARLEY/OCTOBER 2007 EXAM AT POWER FACILITIES		10/01/2007	10/05/2007	Not Applicable
	<b>EB3-ISI - UNIT 1 INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		10/08/2007	10/12/2007	Baseline Inspections
	<b>EB1-SUMP - PWR CONTAINMENT SUMP BLOCKAGE TI (U-1)</b>		<b>1</b>			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		10/21/2007	10/26/2007	Safety Issues
	<b>OL EXAM - INITIAL EXAM WEEK #1</b>		<b>3</b>			
1	V23273	FARLEY/OCTOBER 2007 EXAM AT POWER FACILITIES		10/22/2007	10/26/2007	Not Applicable
	<b>OL EXAM - INITIAL EXAM WEEK #2</b>		<b>3</b>			
1	V23273	FARLEY/OCTOBER 2007 EXAM AT POWER FACILITIES		11/05/2007	11/09/2007	Not Applicable
	<b>EB1-MODS - MODIFICATIONS - 10CFR50.59</b>		<b>2</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		11/12/2007	11/16/2007	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		11/12/2007	11/16/2007	Baseline Inspections
	<b>EBR - MR - MAINTENANCE RULE</b>		<b>1</b>			
1,2	IP 7111112B	Maintenance Effectiveness		02/04/2008	02/08/2008	Baseline Inspections
	<b>EB2-TFP - TRIENNIAL FIRE PROTECTION</b>		<b>5</b>			
1,2	IP 7111105T	Fire Protection [Triennial]		02/26/2008	02/28/2008	Baseline Inspections
1,2	IP 7111105T	Fire Protection [Triennial]		03/17/2008	03/21/2008	Baseline Inspections
1,2	IP 7111105T	Fire Protection [Triennial]		03/31/2008	04/04/2008	Baseline Inspections