



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET SW SUITE 23T85
ATLANTA, GEORGIA 30303-8931**

August 30, 2004

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

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

Dear Mr. Stinson:

On August 3, 2004, the NRC staff completed its mid-cycle plant performance assessment of the Joseph M. Farley Nuclear Plant. The mid-cycle review for Farley involved the participation of all technical divisions in evaluating performance for the first half of the calendar year 2004 assessment cycle. The process included a review of 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 will allow you an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities. This performance review and the enclosed inspection plan do not include physical protection information. A separate mid-cycle performance review letter, designated and marked as "Proprietary Information in accordance with 10 CFR 2.390(d)(1)," will include the physical protection review and a resultant inspection plan.

Plant performance for the most recent quarter was within the Licensee Response Column of the NRC's Action Matrix, 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). Therefore, we plan to conduct only baseline inspections at your facility through March 31, 2006. We also plan on conducting several inspections which are not part of the routine baseline inspection program. These inspections include initial reactor operator licensing examinations, reactor vessel head replacement inspections, a license renewal inspection, a reactor pressure vessel lower head inspection, independent spent fuel storage installation (ISFSI) pre-operational testing inspection, reactor containment sump blockage inspection, a review of your activities in response to Generic Letter 89-13, "Service Water System Problems Affecting Safety-Related Equipment", and during the fall 2004 refueling outage, an inspection of your response to NRC Bulletin 2004-01: Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved 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 me at (404) 562-4540 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Brian R. Bonser, Chief
Reactor Projects Branch 2
Division of Reactor Projects

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

Enclosure: Joseph M. Farley Nuclear Plant Inspection/Activity Plan

cc w/encl: (See page 3)

cc w/encl:

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Farley
Inspection / Activity Plan
09/01/2004 - 03/31/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	PS-RP	- RADIATION PROTECTION - PRE-INSP VISIT	1			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		08/30/2004	09/03/2004	Baseline Inspections
	EB2-HEAD	- REACTOR HEAD REPLACEMENT	1			
1	IP 71007	Reactor Vessel Head Replacement Inspection		09/06/2004	09/10/2004	Other Routine
	LIC RENE	- SECOND LICENSE RENEWAL INSPECTION	6			
1, 2	IP 71002	License Renewal Inspection		09/13/2004	09/17/2004	License Renewal Ins
1, 2	IP 71002	License Renewal Inspection		09/27/2004	10/01/2004	License Renewal Ins
	EB2TI159	- TI2515/159 GL 89-13: SERVICE WATER	4			
1, 2	IP 2515/159	Review of Generic Letter 89-13: Service Water System Problems Affecting Safety-Related E		09/07/2004	09/11/2004	Safety Issues
	PB2-152	- RPV LOWER HEAD PENETRATIONS	2			
1	IP 2515/152	Reactor Pressure Vessel Lower Head Penetration Nozzles (NRC Bulletin 2003-02)		10/02/2004	10/28/2004	Safety Issues
	PB2-153	- RX CONTAINMENT SUMP BLOCKAGE	2			
1	IP 2515/153	Reactor Containment Sump Blockage (NRC Bulletin 2003-01)		10/02/2004	10/28/2004	Safety Issues
	PS-RP	- RP OCCUPATION AL/RX HEAD REPLACEMENT W-1	2			
1, 2	IP 71007	Reactor Vessel Head Replacement Inspection		10/04/2004	10/08/2004	Other Routine
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		10/04/2004	10/08/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		10/04/2004	10/08/2004	Baseline Inspections
1, 2	IP 7112202	Radioactive Material Processing and Transportation		10/04/2004	10/08/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		10/04/2004	10/08/2004	Baseline Inspections
	EB2-ISI	- INSERVICE INSPECTION-U1	2			
1	IP 7111108P	Inservice Inspection Activities - PWR		10/11/2004	10/15/2004	Baseline Inspections
	EB2HEAD	- RPV HEAD REPLACEMENT	1			
1, 2	IP 71007	Reactor Vessel Head Replacement Inspection		10/14/2004	10/18/2004	Other Routine
	EB2SGISI	- STEAM GENERATOR ISI	1			
1	IP 7111108P	Inservice Inspection Activities - PWR		10/18/2004	10/22/2004	Baseline Inspections
	PS-RP	- RP OCCUPATION AL/RX HEAD REPLACEMENT W-2	2			
1, 2	IP 71007	Reactor Vessel Head Replacement Inspection		10/18/2004	10/22/2004	Other Routine
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		10/18/2004	10/22/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		10/18/2004	10/22/2004	Baseline Inspections
1, 2	IP 7112202	Radioactive Material Processing and Transportation		10/18/2004	10/22/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		10/18/2004	10/22/2004	Baseline Inspections
	OL PREP	- INITIAL EXAM PREP	2			
1	V23234	FARLEY/EXAMS AT POWER FACILITIES		12/06/2004	12/10/2004	Not Applicable

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

ENCLOSURE

Farley
Inspection / Activity Plan
09/01/2004 - 03/31/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	OL EXAM - INITIAL EXAM		3			
1	V23234	FARLEY/EXAMS AT POWER FACILITIES		01/10/2005	01/14/2005	Not Applicable
	EB1-TFP - TRIENNIAL FIRE PROTECTION PRE-INSP VISIT		4			
1,2	IP 7111105T	Fire Protection		03/01/2005	03/03/2005	Baseline Inspections
	EB1-TFP - TRIENNIAL FIRE PROTECTION INSPECTION		4			
1,2	IP 7111105T	Fire Protection		03/21/2005	03/25/2005	Baseline Inspections
1,2	IP 7111105T	Fire Protection		04/04/2005	04/08/2005	Baseline Inspections
	PS-RP - RADIATION PROTECTION PRE-INSP VISIT		1			
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/06/2005	06/10/2005	Baseline Inspections
	BR2-FP - FLOOD PROTECTION		1			
1,2	IP 7111106	Flood Protection Measures		06/26/2005	06/30/2005	Baseline Inspections
	PS-RP - RP PUBLIC BASELINE		3			
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/27/2005	07/01/2005	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		06/27/2005	07/01/2005	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program		06/27/2005	07/01/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		06/27/2005	07/01/2005	Baseline Inspections
	60854 - ISFSI DRY RUN INSPECTION		1			
1,2	IP 60854	Preoperational Testing Of An ISFSI		07/11/2005	07/15/2005	Other Routine
	EB2-MODS - MODIFICATIONS/10CFR50.59		4			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		07/11/2005	07/15/2005	Baseline Inspections
1,2	IP 711117B	Permanent Plant Modifications		07/11/2005	07/15/2005	Baseline Inspections
	BR2-PI&R - PI&R PREINSPECTION VISIT		1			
1,2	IP 71152B	Identification and Resolution of Problems		07/18/2005	07/22/2005	Baseline Inspections
	EB2-PI&R - BIENNIAL PI&R		4			
1,2	IP 71152B	Identification and Resolution of Problems		08/08/2005	08/12/2005	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		08/22/2005	08/26/2005	Baseline Inspections
	OL EP - EP INSPECTION		1			
1,2	IP 7111402	Alert and Notification System Testing		08/22/2005	08/26/2005	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		08/22/2005	08/26/2005	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/22/2005	08/26/2005	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		08/22/2005	08/26/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		08/22/2005	08/26/2005	Baseline Inspections
	EB2 HEAD - U-2 REACTOR HEAD REPLACEMENT		1			
2	IP 71007	Reactor Vessel Head Replacement Inspection		08/29/2005	09/02/2005	Other Routine

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Farley
Inspection / Activity Plan
09/01/2004 - 03/31/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	EB2-ISI - INSERVICE INSPECTION-U2		1			
2	IP 7111108P	Inservice Inspection Activities - PWR		09/19/2005	09/23/2005	Baseline Inspections
	EB2SGISI - STEAM GENERATOR ISI		1			
2	IP 7111108P	Inservice Inspection Activities - PWR		10/10/2005	10/14/2005	Baseline Inspections
	PS-RP - RP BASELINE & RX HEAD REPLACEMENT		1			
1,2	IP 71007	Reactor Vessel Head Replacement Inspection		10/31/2005	11/04/2005	Other Routine
1,2	IP 7112101	Access Control to Radiologically Significant Areas		10/31/2005	11/04/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		10/31/2005	11/04/2005	Baseline Inspections
	PS-RP - RP PUBLIC BASELINE		4			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		12/05/2005	12/09/2005	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		12/05/2005	12/09/2005	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		12/05/2005	12/09/2005	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program		12/05/2005	12/09/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		12/05/2005	12/09/2005	Baseline Inspections
	EB2-HS - HEAT SINK		1			
1,2	IP 7111107B	Heat Sink Performance		02/13/2006	02/17/2006	Baseline Inspections