



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II**

245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

March 1, 2017

Mr. Dennis R. Madison, Vice President
Southern Nuclear Operating Company, Inc.
Joseph M. Farley Nuclear Plant
7388 North State Highway 95
Columbia, AL 36319

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR JOSEPH M. FARLEY NUCLEAR PLANT
UNITS 1 AND 2 (REPORT 05000348/2016006 AND 05000364/2016006)**

Dear Mr. Madison:

The NRC has completed its end-of-cycle performance assessment of Joseph M. Farley Nuclear Plant Units 1 and 2 reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016 through December 31, 2016. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Farley Units 1 and 2 during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

In addition, the NRC will perform Temporary Instruction (TI) 192, "Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition (OPC) Design Vulnerabilities In Electric Power Systems."

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter 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 Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

D. Madison

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Please contact me at 404-997-4513 with any questions you have regarding this letter.

Sincerely,

/RA/

Shane R. Sandal, Chief
Reactor Projects Branch 2
Division of Reactor Projects

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

Enclosure:
Farley Inspection/Activity Plan
(03/01/2017 – 12/31/2018)

cc Distribution via ListServ

D. Madison

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SUBJECT: ANNUAL ASSESSMENT LETTER FOR JOSEPH M. FARLEY NUCLEAR PLANT
UNITS 1 AND 2 (REPORT 05000348/2016006 AND 05000364/2016006)
March 1, 2017

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Farley
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			PB2TI192 - TI-192		2
1, 2	01/01/2017	03/31/2017	IP 2515/192	Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition	
			OL EXAM - INITIAL LICENSE EXAM PREP		4
1	03/06/2017	03/10/2017	V23489	FARLEY APRIL 2017 INITIAL EXAM AT OWER FACILITIES	
			OL EXAM - INITIAL LICENSE EXAM		4
1	04/03/2017	04/21/2017	V23489	FARLEY APRIL 2017 INITIAL EXAM AT OWER FACILITIES	
			EP - EP PROGRAM INSPECTION		4
1, 2	04/10/2017	04/14/2017	IP 7111402	Alert and Notification System Testing	
1, 2	04/10/2017	04/14/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	04/10/2017	04/14/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	04/10/2017	04/14/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	04/10/2017	04/14/2017	IP 71151	Performance Indicator Verification	
			DBAI - DESIGN BASES ASSURANCE INSPECTION (TEAM)		7
1, 2	04/10/2017	04/14/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
1, 2	05/01/2017	05/05/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
1, 2	05/15/2017	05/19/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
			HS - TRIENNIAL HEAT SINK PERFORMANCE		1
1, 2	07/17/2017	07/21/2017	IP 7111107T	Heat Sink Performance	
			RP - RP PUBLIC RAD SAFETY BASELINE		3
1, 2	08/21/2017	08/25/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	08/21/2017	08/25/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	08/21/2017	08/25/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	08/21/2017	08/25/2017	IP 71151	Performance Indicator Verification	
			PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		5
1, 2	09/11/2017	09/15/2017	IP 71152B	Problem Identification and Resolution	
1, 2	09/25/2017	09/29/2017	IP 71152B	Problem Identification and Resolution	
			ISI - UNIT 2 IN-SERVICE INSPECTION		1
2	10/23/2017	10/27/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			RP - RAD HAZARDS		1
1, 2	10/23/2017	10/27/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			ISI - UNIT 1 IN-SERVICE INSPECTION		1
1	04/09/2018	04/13/2018	IP 7111108P	Inservice Inspection Activities - PWR	

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

Enclosure

Farley
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
RP - RP OCCUPATIONAL - WEEK 1					3
1, 2	04/09/2018	04/13/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/09/2018	04/13/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/09/2018	04/13/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/09/2018	04/13/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	04/09/2018	04/13/2018	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	04/09/2018	04/13/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	04/09/2018	04/13/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
SGISI - UNIT 1 SG IN-SERVICE INSPECTION					1
1	04/16/2018	04/20/2018	IP 7111108P	Inservice Inspection Activities - PWR	
RP - RP OCCUPATIONAL - WEEK 2					2
1, 2	04/30/2018	05/04/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/30/2018	05/04/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/30/2018	05/04/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/30/2018	05/04/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	04/30/2018	05/04/2018	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	04/30/2018	05/04/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	04/30/2018	05/04/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
TFPI - TRIENNIAL FIRE PROTECTION INSPECTION					5
1, 2	07/16/2018	07/20/2018	IP 7111105X	Fire Protection - NFPA 805 (Triennial)	
1, 2	07/30/2018	08/03/2018	IP 7111105X	Fire Protection - NFPA 805 (Triennial)	
OL RQ - REQUAL INSPECTION					2
1, 2	08/20/2018	08/24/2018	IP 7111111B	Licensed Operator Requalification Program	
EQI - DESIGN BASES ASSURANCE INSPECTION (PROG)					3
1, 2	09/24/2018	09/28/2018	IP 7111121N	Component Design Bases Inspection (Programs)	
1, 2	10/15/2018	10/19/2018	IP 7111121N	Component Design Bases Inspection (Programs)	
1, 2	10/29/2018	11/02/2018	IP 7111121N	Component Design Bases Inspection (Programs)	
EP - EP EXERCISE					8
1, 2	10/29/2018	11/02/2018	IP 7111401	Exercise Evaluation	
1, 2	10/29/2018	11/02/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	10/29/2018	11/02/2018	IP 71151-EP01	Drill/Exercise Performance	
1, 2	10/29/2018	11/02/2018	IP 71151-EP02	ERO Readiness	
1, 2	10/29/2018	11/02/2018	IP 71151-EP03	Alert & Notification System Reliability	

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