



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

February 28, 2018

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 – NRC INSPECTION REPORTS 05000348/2017006
AND 05000364/2017006, 05000348/2017402 AND 05000364/2017402,
05000348/2017501 AND 05000364/2017501**

Dear Mr. Madison:

The Nuclear Regulatory Commission (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, 2017 through December 31, 2017. 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 the overall performance at your facility preserved public health and safety.

The NRC determined the performance at Joseph M. Farley Nuclear Plant 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, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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.

D. Madison

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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).

Please contact me at (404) 997-4415 with any questions you have regarding this letter.

Sincerely,

/RA/

Alan Blamey, 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

cc Distribution via ListServ

D. Madison

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DATE	2/8/2018	2/8/2018			

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IP 22 Inspection Activity Plan Report

Farley

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
UNIT 1 IN-SERVICE INSPECTION						1
1	04/09/2018	04/13/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RP OCCUPATIONAL - WEEK 1						3
1, 2	04/09/2018	04/13/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/09/2018	04/13/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	04/09/2018	04/13/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/09/2018	04/13/2018	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	04/09/2018	04/13/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	04/09/2018	04/13/2018	IP 71151	000746	Performance Indicator Verification	
RP OCCUPATIONAL - WEEK 2						2
1, 2	05/07/2018	05/11/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	05/07/2018	05/11/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	05/07/2018	05/11/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	05/07/2018	05/11/2018	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	05/07/2018	05/11/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	05/07/2018	05/11/2018	IP 71151	000746	Performance Indicator Verification	
MITIGATING STRATEGIES						4
1, 2	06/18/2018	06/22/2018	TI 2515/191	000509	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
TRIENNIAL FIRE PROTECTION INSPECTION						8
1, 2	07/16/2018	07/20/2018	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
1, 2	07/30/2018	08/03/2018	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
FARLEY REQUAL INSPECTION						2
1, 2	08/20/2018	08/24/2018	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
SECURITY BASELINE INSPECTION						3
1, 2	08/20/2018	08/24/2018	IP 71130.02	000734	Access Control	
1, 2	08/20/2018	08/24/2018	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	08/20/2018	08/24/2018	IP 71151	001338	Performance Indicator Verification	

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

IP 22 Inspection Activity Plan Report

DESIGN BASES ASSURANCE INSPECTION (PROGRAM)						3
1, 2	10/15/2018	10/19/2018	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	11/05/2018	11/09/2018	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
EP EXERCISE						5
1, 2	10/29/2018	11/02/2018	IP 71114.01	000716	Exercise Evaluation	
1, 2	10/29/2018	11/02/2018	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	10/29/2018	11/02/2018	IP 71151	001397	Performance Indicator Verification	
EVALUATIONS OF CHANGES, TESTS AND EXPERIMENTS						3
1, 2	01/14/2019	01/18/2019	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
PROBLEM IDENTIFICATION AND RESOLUTION						4
1, 2	02/04/2019	02/08/2019	IP 71152B	000747	Problem Identification and Resolution	
1, 2	02/18/2019	02/22/2019	IP 71152B	000747	Problem Identification and Resolution	
EP PROGRAM INSPECTION						3
1, 2	04/08/2019	04/12/2019	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	04/08/2019	04/12/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	04/08/2019	04/12/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	04/08/2019	04/12/2019	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	04/08/2019	04/12/2019	IP 71151	001397	Performance Indicator Verification	
UNIT 2 IN-SERVICE INSPECTION						1
2	04/15/2019	04/19/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
UNIT 2 SG IN-SERVICE INSPECTION						1
2	04/15/2019	04/19/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RP RADHAZARDS & TRANS						2
1, 2	04/15/2019	04/19/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/15/2019	04/19/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
FARLEY INITIAL LICENSE EXAM						4
1, 2	05/06/2019	05/10/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	06/10/2019	06/21/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
SECURITY BASELINE INSPECTION						2
1, 2	06/10/2019	06/14/2019	IP 71130.02	000734	Access Control	
1, 2	06/10/2019	06/14/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	06/10/2019	06/14/2019	IP 71130.07	000739	Security Training	
1, 2	06/10/2019	06/14/2019	IP 71151	001338	Performance Indicator Verification	

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RP PUBLIC						2
1, 2	06/17/2019	06/21/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	06/17/2019	06/21/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	06/17/2019	06/21/2019	IP 71151	000746	Performance Indicator Verification	
CYBER SECURITY						4
1, 2	08/12/2019	08/16/2019	IP 71130.10P	000741	Cyber Security	
1, 2	08/26/2019	08/30/2019	IP 71130.10P	000741	Cyber Security	
TARGET SET						1
1, 2	09/09/2019	09/13/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	
UNIT 1 IN-SERVICE INSPECTION						1
1	10/07/2019	10/11/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
UNIT 1 SG IN-SERVICE INSPECTION						1
1	10/07/2019	10/11/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	