

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

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 <u>http://www.nrc.gov/reading-rm/adams.html</u> (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

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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-S	ERVICE INSPECTI	ON					1
1	04/09/2018	04/13/2018	IP 71111.08P	000702	Inservice Inspection Activities - PV	VR	
RP OCCUPA	TIONAL - WEEK 1	L					3
1, 2	04/09/2018	04/13/2018	IP 71124.01	000725	Radiological Hazard Assessment a	and Exposure Controls	
1, 2	04/09/2018	04/13/2018	IP 71124.02	000726	Occupational ALARA Planning and	d Controls	
1, 2	04/09/2018	04/13/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Co		
1, 2	04/09/2018	04/13/2018	IP 71124.04	000728	Occupational Dose Assessment	5	
1, 2	04/09/2018	04/13/2018	IP 71124.05	000729	Radiation Monitoring Instrumenta	ation	
1, 2	04/09/2018	04/13/2018	IP 71151	000746	Performance Indicator Verification		
RP OCCUPA	TIONAL - WEEK 2	2					2
1, 2	05/07/2018	05/11/2018	IP 71124.01	000725	Radiological Hazard Assessment a	and Exposure Controls	
1, 2	05/07/2018	05/11/2018	IP 71124.02	000726	Occupational ALARA Planning and		
1, 2	05/07/2018	05/11/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Co		
1, 2	05/07/2018	05/11/2018	IP 71124.04	000728	Occupational Dose Assessment	and or and margarien	
1, 2	05/07/2018	05/11/2018	IP 71124.05	000729	Radiation Monitoring Instrumenta	ation	
1, 2	05/07/2018	05/11/2018	IP 71151	000746	Performance Indicator Verification		
MITIGATING	G STRATEGIES		•	-			4
1, 2	06/18/2018	06/22/2018	TI 2515/191	000509	Inspection of Licensee's Response Request March 12, 2012	es to Order EA-12-049, EA-12-051 & EP Info	
TRIENNIAL	FIRE PROTECTION	N INSPECTION					8
1, 2	07/16/2018	07/20/2018	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Trienr	nial)	
1, 2	07/30/2018	08/03/2018	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Trienr	-	
FARLEY REQ	UAL INSPECTION	N					2
1, 2	08/20/2018	08/24/2018	IP 71111.11B	000704	Licensed Operator Requalification Biennial	Program and Licensed Operator Performan	ice -
SECURITY B	ASELINE INSPECT	ΓΙΟΝ					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	1	

IP 22 Inspection Activity Plan Report

	SES ASSURANCE	-	-			
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)	
P EXERCIS	1					
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	
VALUATIO	NS OF CHANGES	, TESTS AND E	(PERIMENTS			
1, 2	01/14/2019	01/18/2019	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
ROBLEM I	DENTIFICATION A	AND RESOLUTI	ON			
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	
	M INSPECTION					
1, 2	04/08/2019	04/12/2019	IP 71114.02	000717	Alert and Notification System Testing	
	04/08/2019	04/12/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
12		04/12/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2 1, 2	04/08/2019	(14/12/2019)		0007 =0		
1, 2	04/08/2019			000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
	04/08/2019 04/08/2019 04/08/2019	04/12/2019 04/12/2019 04/12/2019	IP 71114.05 IP 71151	000720 001397	Correction of Emergency Preparedness Weaknesses and Deficiencies Performance Indicator Verification	
1, 2 1, 2 1, 2	04/08/2019	04/12/2019 04/12/2019	IP 71114.05			
1, 2 1, 2 1, 2 INIT 2 IN-S 2	04/08/2019 04/08/2019 ERVICE INSPECT	04/12/2019 04/12/2019 ION 04/19/2019	IP 71114.05 IP 71151	001397	Performance Indicator Verification	
1, 2 1, 2 1, 2 INIT 2 IN-S 2	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019	04/12/2019 04/12/2019 ION 04/19/2019	IP 71114.05 IP 71151	001397	Performance Indicator Verification	
1, 2 1, 2 1, 2 INIT 2 IN-S 2 INIT 2 SG I 2	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019 N-SERVICE INSPE	04/12/2019 04/12/2019 ION 04/19/2019	IP 71114.05 IP 71151 IP 71111.08P	001397	Performance Indicator Verification Inservice Inspection Activities - PWR	
1, 2 1, 2 1, 2 JNIT 2 IN-S 2 JNIT 2 SG I 2	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019 N-SERVICE INSPE 04/15/2019	04/12/2019 04/12/2019 ION 04/19/2019	IP 71114.05 IP 71151 IP 71111.08P	001397	Performance Indicator Verification Inservice Inspection Activities - PWR Inservice Inspection Activities - PWR	
1, 2 1, 2 1, 2 INIT 2 IN-S 2 INIT 2 SG I 2 RP RADHAZ	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019 N-SERVICE INSPE 04/15/2019 CARDS & TRANS	04/12/2019 04/12/2019 ION 04/19/2019 ECTION 04/19/2019	IP 71114.05 IP 71151 IP 71111.08P IP 71111.08P	001397 000702 000702	Performance Indicator Verification Inservice Inspection Activities - PWR	age
1, 2 1, 2 1, 2 INIT 2 IN-S 2 INIT 2 SG I 2 INIT 2 SG I 2 I, 2 1, 2 1, 2	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019 N-SERVICE INSPE 04/15/2019 CARDS & TRANS 04/15/2019	04/12/2019 04/12/2019 ION 04/19/2019 CTION 04/19/2019 04/19/2019	IP 71114.05 IP 71151 IP 71111.08P IP 71111.08P IP 711124.01	001397 000702 000702 000725	Performance Indicator Verification Inservice Inspection Activities - PWR Inservice Inspection Activities - PWR Radiological Hazard Assessment and Exposure Controls Radioactive Solid Waste Processing and Radioactive Material Handling, Stor	age
1, 2 1, 2 1, 2 JNIT 2 IN-S 2 JNIT 2 SG I 2 RP RADHAZ 1, 2 1, 2	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019 N-SERVICE INSPE 04/15/2019 CARDS & TRANS 04/15/2019 04/15/2019	04/12/2019 04/12/2019 ION 04/19/2019 CTION 04/19/2019 04/19/2019	IP 71114.05 IP 71151 IP 71111.08P IP 71111.08P IP 711124.01	001397 000702 000702 000725	Performance Indicator Verification Inservice Inspection Activities - PWR Inservice Inspection Activities - PWR Radiological Hazard Assessment and Exposure Controls Radioactive Solid Waste Processing and Radioactive Material Handling, Stor	age
1, 2 1, 2 1, 2 INIT 2 IN-S 2 INIT 2 SG I 2 P RADHAZ 1, 2 1, 2 ARLEY INIT	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019 N-SERVICE INSPE 04/15/2019 CARDS & TRANS 04/15/2019 04/15/2019	04/12/2019 04/12/2019 ION 04/19/2019 ECTION 04/19/2019 04/19/2019	IP 71114.05 IP 71151 IP 71111.08P IP 71111.08P IP 71111.08P IP 71124.01 IP 71124.08	001397 000702 000702 000725 000732	Performance Indicator Verification Inservice Inspection Activities - PWR Inservice Inspection Activities - PWR Radiological Hazard Assessment and Exposure Controls Radioactive Solid Waste Processing and Radioactive Material Handling, Stor and Transportation	age
1, 2 1, 2 1, 2 INIT 2 IN-S 2 INIT 2 SG I 2 P RADHAZ 1, 2 1, 2 ARLEY INIT 1, 2 1, 2	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019 N-SERVICE INSPE 04/15/2019 CARDS & TRANS 04/15/2019 04/15/2019 TIAL LICENSE EXA 05/06/2019	04/12/2019 04/12/2019 ION 04/19/2019 ECTION 04/19/2019 04/19/2019 04/19/2019 04/19/2019	IP 71114.05 IP 71151 IP 71111.08P IP 71111.08P IP 71114.01 IP 71124.01 IP 71124.08	001397 000702 000702 000725 000732 000956	Performance Indicator Verification Inservice Inspection Activities - PWR Inservice Inspection Activities - PWR Radiological Hazard Assessment and Exposure Controls Radioactive Solid Waste Processing and Radioactive Material Handling, Stor and Transportation VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	age
1, 2 1, 2 1, 2 INIT 2 IN-S 2 INIT 2 SG I 2 P RADHAZ 1, 2 1, 2 ARLEY INIT 1, 2 1, 2 ECURITY B	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019 N-SERVICE INSPE 04/15/2019 CARDS & TRANS 04/15/2019 04/15/2019 04/15/2019 04/15/2019 05/06/2019 06/10/2019 ASELINE INSPECT	04/12/2019 04/12/2019 04/19/2019 CTION 04/19/2019 04/19/2019 04/19/2019 04/19/2019 04/19/2019 04/19/2019	IP 71114.05 IP 71151 IP 71111.08P IP 71111.08P IP 71114.01 IP 71124.01 IP 71124.08	001397 000702 000702 000725 000732 000956 000500	Performance Indicator Verification Inservice Inspection Activities - PWR Inservice Inspection Activities - PWR Radiological Hazard Assessment and Exposure Controls Radioactive Solid Waste Processing and Radioactive Material Handling, Stor and Transportation VALIDATION OF INITIAL LICENSE EXAMINATION (OV) LICENSE EXAM ADMINISTRATION (EXAD)	age
1, 2 1, 2 1, 2 INIT 2 IN-S 2 INIT 2 SG I 2 P RADHAZ 1, 2 1, 2 ARLEY INIT 1, 2 1, 2 ECURITY B 1, 2	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019 N-SERVICE INSPE 04/15/2019 CARDS & TRANS 04/15/2019 04/15/2019 04/15/2019	04/12/2019 04/12/2019 ION 04/19/2019 ECTION 04/19/2019 04/19/2019 04/19/2019 04/19/2019	IP 71114.05 IP 71151 IP 71111.08P IP 71111.08P IP 71111.08P IP 71124.01 IP 71124.08 OV EXAD	001397 000702 000702 000725 000732 000956	Performance Indicator Verification Inservice Inspection Activities - PWR Inservice Inspection Activities - PWR Radiological Hazard Assessment and Exposure Controls Radioactive Solid Waste Processing and Radioactive Material Handling, Stor and Transportation VALIDATION OF INITIAL LICENSE EXAMINATION (OV) LICENSE EXAM ADMINISTRATION (EXAD)	age
1, 2 1, 2 1, 2 INIT 2 IN-S 2 INIT 2 SG I 2 RP RADHAZ 1, 2 1, 2 1, 2 1, 2 SECURITY B	04/08/2019 04/08/2019 ERVICE INSPECT 04/15/2019 N-SERVICE INSPE 04/15/2019 CARDS & TRANS 04/15/2019 04/15/2019 04/15/2019 TIAL LICENSE EXA 05/06/2019 06/10/2019	04/12/2019 04/12/2019 04/19/2019 ECTION 04/19/2019 04/19/2019 04/19/2019 04/19/2019 04/19/2019 04/19/2019 06/21/2019 TION	IP 71114.05 IP 711151 IP 71111.08P IP 71111.08P IP 71111.08P IP 71124.01 IP 71124.08 OV EXAD IP 71130.02	001397 000702 000702 000725 000732 000956 000500	Performance Indicator Verification Inservice Inspection Activities - PWR Inservice Inspection Activities - PWR Radiological Hazard Assessment and Exposure Controls Radioactive Solid Waste Processing and Radioactive Material Handling, Stor and Transportation VALIDATION OF INITIAL LICENSE EXAMINATION (OV) LICENSE EXAM ADMINISTRATION (EXAD)	age

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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 SECU	URITY					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 SE	т					1
1, 2	09/09/2019	09/13/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	
UNIT 1 IN-9	SERVICE INSPECT	ION				1
1	10/07/2019	10/11/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
UNIT 1 SG I	IN-SERVICE INSPE	ECTION				1
1	10/07/2019	10/11/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	