

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION II

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

September 1, 2015

Mr. Joseph W. Shea Vice President, Nuclear Licensing Tennessee Valley Authority 1101 Market Street, LP 3D-C Chattanooga, TN 37402-2801

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR THE SEQUOYAH NUCLEAR PLANT

UNITS 1 AND 2, NRC INSPECTION REPORT 005000327/2015005,

005000328/2015005

Dear Mr. Shea:

On August 13, 2015, the NRC completed its mid-cycle performance review of Sequoyah Nuclear Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2014 through June 30, 2015. 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 determined that overall, Sequoyah Nuclear Plant operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Sequoyah Nuclear Plant during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all Pls indicated that your performance was within the nominal, 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 June 30, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the second half of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. 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 security related inspections, which will be sent via separate, non-publicly available correspondence.

In addition to the routine ROP baseline inspections at your facility, we also plan on conducting infrequently performed inspections which include: Inspection Procedure (IP) 43004, "Inspection of Commercial-Grade Dedication Programs," and an initial operator license examination.

J. Shea 2

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audit was completed for Sequoyah Nuclear Plant, and the information gathered will aid staff in development of the Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above performing TI 191: "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

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 6 Division of Reactor Projects

Docket Nos.: 50-327, 50-328 License Nos. DPR-77, DPR-79

Enclosure: Sequoyah Inspection/Activity Plan

(7/01/2015 - 06/30/2017)

cc distribution via ListServ

J. Shea 2

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audit was completed at Sequoyah Nuclear Plant, and the information gathered will aid staff in development of the Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above performing TI 191: "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

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 6 Division of Reactor Projects

Docket Nos.: 50-327, 50-328 License Nos. DPR-77, DPR-79

Enclosure: Sequoyah Inspection/Activity Plan

(7/01/2015 - 06/30/2017)

cc distribution via ListServ

X PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE XNON-SENSITIVE

ADAMS: X Yes ACCESSION NUMBER: XSUNSI REVIEW COMPLETE

OFFICE	RII:DRP	RII:DRP	RII:DRP			
SIGNATURE	BDB3	CRK1	AJB3			
NAME	BBISHOP	CKONTZ	ABLAMEY			
DATE	8/26/2015	8/25/2015	8/31/2015			
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRP\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2015\MID-CYCLE\INPUT\RPB6\MID-CYCLE LETTER-FINAL\SQN 2015 DRAFT MID-CYCLE LETTER A.DOCX

J. Shea

Letter to Joseph Shea from Alan Blamey dated September 1, 2015

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR THE SEQUOYAH NUCLEAR PLANT

UNITS 1 AND 2, NRC INSPECTION REPORT 005000327/2015005,

005000328/2015005

DISTRIBUTION:

D. Gamberoni, RII
L. Gibson, RII
OE Mail
RIDSNRRDIRS
PUBLIC
A. Adams, NRR
RidsNrrPMSequoyah Resource
ROP Assessment
ROP Reports
Institute of Nuclear Power Operations (INPO)

Page 1 of 2

09/01/2015 10:29:19

Report 22

Sequoyah Inspection / Activity Plan 09/01/2015 - 06/30/2017

Unit	Planne	d Dates	I			No. of Staff
Number	Start	End	Inspection A	ctivity	Title	on Site
			EP	- EP PRO	GRAM INSPECTION	4
1, 2	10/12/2015	10/16/2015	IP 7111402		Alert and Notification System Testing	
1, 2	10/12/2015	10/16/2015	IP 7111403		Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	10/12/2015	10/16/2015	IP 7111404		Emergency Action Level and Emergency Plan Changes	
1, 2	10/12/2015	10/16/2015	IP 7111405		Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	10/12/2015	10/16/2015	IP 71151		Performance Indicator Verification	
			RP	- RAD HA	ZARDS ANALYSIS AND TRANSPORTATION	2
1, 2	11/16/2015	11/20/2015	IP 71124.01		Radiological Hazard Assessment and Exposure Controls	
1, 2	11/16/2015	11/20/2015	IP 71124.08		Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	11/16/2015	11/20/2015	IP 71151		Performance Indicator Verification	
			ISI	- UNIT 2 I	N-SERVICE INSPECTION	1
2	11/23/2015	11/27/2015	IP 7111108P		Inservice Inspection Activities - PWR	
			OL EXAM	- INITIAL	LICENSE EXAM PREP	3
1	02/08/2016	02/12/2016	V23466		SEQUOYAH MARCH 2016 INITIAL EXAM AT POWER FACILITIES	
			OL EXAM	- INITIAL	LICENSE EXAM	3
1	03/07/2016	03/18/2016	V23466		SEQUOYAH MARCH 2016 INITIAL EXAM AT POWER FACILITIES	
			CDBI	- COMPO	NENT DESIGN BASES INSPECTION	7
1, 2	04/25/2016	04/29/2016	IP 7111121		Component Design Bases Inspection	
1, 2	05/09/2016	05/13/2016	IP 7111121		Component Design Bases Inspection	
1, 2	05/23/2016	05/27/2016	IP 7111121		Component Design Bases Inspection	
1, 2	06/13/2016	06/17/2016	IP 7111121		Component Design Bases Inspection	
			EP	- EP EXE	RCISE INSPECTION	6
1, 2	09/12/2016	09/16/2016	IP 7111401		Exercise Evaluation	
1, 2	09/12/2016	09/16/2016	IP 7111404		Emergency Action Level and Emergency Plan Changes	
1, 2	09/12/2016	09/16/2016	IP 7111408		Exercise Evaluation – Scenario Review	
1, 2	09/12/2016	09/16/2016	IP 71151		Performance Indicator Verification	
			RP	- RP OCC	CUPATIONAL INSPECTION WEEK 1	2
1, 2	10/31/2016	11/04/2016	IP 71124.01		Radiological Hazard Assessment and Exposure Controls	
1, 2	10/31/2016	11/04/2016	IP 71124.02		Occupational ALARA Planning and Controls	
1, 2	10/31/2016	11/04/2016	IP 71124.03		In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/31/2016	11/04/2016	IP 71124.04		Occupational Dose Assessment	
1, 2	10/31/2016	11/04/2016	IP 71124.05		Radiation Monitoring Instrumentation	
1, 2	10/31/2016	11/04/2016	IP 71151		Performance Indicator Verification	

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

Page 2 of 2

09/01/2015 10:29:19

Report 22

Sequoyah Inspection / Activity Plan

09/01/2015 - 06/30/2017

Unit	Planne	d Dates	I		No. of Staff
Number	Start	End	Inspection Activit	Title	on Site
			ISI - UN	IT 1 IN-SERVICE INSPECTION	1
1	11/07/2016	11/11/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			RP - RP	OCCUPATIONAL INSPECTION WEEK 2	3
1, 2	11/14/2016	11/18/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/14/2016	11/18/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	11/14/2016	11/18/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	11/14/2016	11/18/2016	IP 71124.04	Occupational Dose Assessment	
1, 2	11/14/2016	11/18/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	11/14/2016	11/18/2016	IP 71151	Performance Indicator Verification	
			SGISI - UN	IT 1 SG IN-SERVICE INSPECTION	1
1	11/14/2016	11/18/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			TFPI - TRI	IENNIEL FIRE PROTECTION INSPECTION	5
1, 2	03/20/2017	03/24/2017	IP 7111105T	Fire Protection [Triennial]	
1, 2	04/03/2017	04/07/2017	IP 7111105T	Fire Protection [Triennial]	
			ISI - UN	IT 2 IN-SERVICE INSPECTION	1
2	05/01/2017	05/05/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			RP - RA	D HAZARDS AND PIV	1
1, 2	05/01/2017	05/05/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	05/01/2017	05/05/2017	IP 71151	Performance Indicator Verification	
			PI&R - PR	OBLEM IDENTIFICATION AND RESOLUTION	5
1, 2	06/05/2017	06/09/2017	IP 71152B	Problem Identification and Resolution	
1, 2	06/19/2017	06/23/2017	IP 71152B	Problem Identification and Resolution	