



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
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ATLANTA, GEORGIA 30303-1257

September 4, 2012

Mr. Joseph W. Shea
Manager, Corp. Nuclear Licensing Programs
Tennessee Valley Authority
1101 Market Street, LP 4B-C
Chattanooga, TN 37402-2801

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR SEQUOYAH NUCLEAR PLANT
UNITS 1 AND 2 (REPORT 05000327/2012006 AND 05000328/2012006)

Dear Mr. Shea:

On August 16, 2012, the NRC completed its mid-of-cycle performance review of Sequoyah Nuclear Plant Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2011, through June 30, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This assessment reflects the integration of the Security Cornerstone into the ROP performance assessment program.

The NRC determined the performance at Sequoyah Units 1 and 2 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 PIs 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.

During the first quarter 2012, Sequoyah Unit 1 was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because the Unplanned Scrams per 7000 Critical Hours performance indicator provided a White input in the 3rd quarter of 2011. This PI had returned to Green status in the 4th quarter 2011; however, in addition to ROP baseline inspections, a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area" was required. The NRC completed this inspection in March 2012, which resulted in Unit 1 returning to the Licensee Response Column in the second quarter 2012 as documented in an NRC Assessment Followup letter dated March 29, 2012.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-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-public available correspondence.

In addition to the baseline inspections at your facility, we also plan on conducting infrequently performed inspections which include: IP 50001, (Unit 2) Steam Generator Replacement Inspection; initial reactor operator licensing examinations; and Temporary Instruction (TI) 2515/182, Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks. Additionally, consistent with the Agency's actions related to Fukushima, the NRC will perform TI 2515/187, "Inspection Of Near-Term Task Force Recommendation 2.3 - Flooding Walkdowns", and TI 2515/188, "Inspection Of Near-Term Task Force Recommendation 2.3 - Seismic Walkdowns".

In accordance with 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 404-997-4521 with any questions you have regarding this letter.

Sincerely,

/RA/

Scott M. Shaeffer, 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 (09/01/2012 – 12/31/2013)

cc w/encl: (See page 3)

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Sequoyah
Inspection / Activity Plan
09/01/2012 - 12/31/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1,2	09/10/2012	09/14/2012	OL RQ - REQUAL INSPECTION	Licensed Operator Requalification Program	2
1,2	10/01/2012	10/05/2012	PSB1EP - EMERGENCY PREPAREDNESS EXERCISE	Exercise Evaluation	4
1,2	10/01/2012	10/05/2012		Emergency Action Level and Emergency Plan Changes	
1,2	10/01/2012	10/05/2012		Performance Indicator Verification	
			EB3 SGR - UNIT 2 SG REPLACEMENT		3
2	10/15/2012	10/19/2012		Steam Generator Replacement Inspection	
2	10/22/2012	10/26/2012		Steam Generator Replacement Inspection	
2	11/19/2012	11/23/2012		Steam Generator Replacement Inspection	
2	11/26/2012	11/30/2012		Steam Generator Replacement Inspection	
2	12/03/2012	12/07/2012		Steam Generator Replacement Inspection	
2	12/10/2012	12/14/2012		Steam Generator Replacement Inspection	
2	12/24/2012	12/28/2012		Steam Generator Replacement Inspection	
			PSB1-RP - OCCUPATIONAL RP BASELINE WK1		4
1,2	10/22/2012	10/26/2012		Radiological Hazard Assessment and Exposure Controls	
1,2	10/22/2012	10/26/2012		Occupational ALARA Planning and Controls	
1,2	10/22/2012	10/26/2012		In-Plant Airborne Radioactivity Control and Mitigation	
1,2	10/22/2012	10/26/2012		Occupational Dose Assessment	
1,2	10/22/2012	10/26/2012		Radiation Monitoring Instrumentation	
1,2	10/22/2012	10/26/2012		Performance Indicator Verification	
			EB3 ISI - UNIT 2 IN-SERVICE INSPECTION		1
1	10/29/2012	11/02/2012		Inservice Inspection Activities - PWR	
			PSB1-RP - OCCUPATIONAL RP BASELINE WK2		4
1,2	11/05/2012	11/09/2012		Radiological Hazard Assessment and Exposure Controls	
1,2	11/05/2012	11/09/2012		Occupational ALARA Planning and Controls	
1,2	11/05/2012	11/09/2012		In-Plant Airborne Radioactivity Control and Mitigation	
1,2	11/05/2012	11/09/2012		Occupational Dose Assessment	
1,2	11/05/2012	11/09/2012		Radiation Monitoring Instrumentation	
1,2	11/05/2012	11/09/2012		Performance Indicator Verification	
			OL EXAM - INITIAL EXAM WEEK 1		3
1	12/03/2012	12/07/2012	V23340	SEQUOYAH/DECEMBER 2012 EXAM AT POWER FACILITIES	
			TI-182 - TI-182 BURIED PIPING/TANK - PHASE 1		1
1,2	02/11/2013	02/15/2013	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
				This report does not include NPO and OUTAGE activities.	
				This report shows only on-site and announced inspection procedures.	

Enclosure

Sequoyah
Inspection / Activity Plan
09/01/2012 - 12/31/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1	04/22/2013	04/26/2013	OL EXAM	- INITIAL EXAM PREP	3
1	05/13/2013	05/17/2013	OL EXAM	- INITIAL EXAM - WEEK 1	3
1,2	06/03/2013	06/07/2013	PSB1-RP	- RP PUBLIC RAD SAFETY BASELINE	3
1,2	06/03/2013	06/07/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	06/03/2013	06/07/2013	IP 71124.07	Radiological Environmental Monitoring Program	
1,2	06/03/2013	06/07/2013	IP 71151	Performance Indicator Verification	
1,2	06/10/2013	06/14/2013	PI&R	- PROBLEM IDENTIFICATION AND RESOLUTION	5
1,2	06/24/2013	06/28/2013	IP 71152B	Problem Identification and Resolution	
1,2	06/17/2013	06/21/2013	CDBI	- COMPONENT DESIGN BASIS INSPECTION	10
1,2	07/08/2013	07/12/2013	IP 7111121	Component Design Bases Inspection	
1,2	07/22/2013	07/26/2013	IP 7111121	Component Design Bases Inspection	
1,2	08/05/2013	08/09/2013	IP 7111121	Component Design Bases Inspection	
EP				EMERGENCY PREPAREDNESS INSPECTION	1
1,2	09/30/2013	10/04/2013	IP 7111402	Alert and Notification System Testing	
1,2	09/30/2013	10/04/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	09/30/2013	10/04/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	09/30/2013	10/04/2013	IP 71151	Performance Indicator Verification	
1	10/21/2013	10/25/2013	ISI	- UNIT 1 INSERVICE INSPECTION	1
1			IP 7111108P	Inservice Inspection Activities - PWR	
			PSB1-RP	- RAD HAZARD ANALYSIS AND TRANSPORTATION	2
1,2	11/04/2013	11/08/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	11/04/2013	11/08/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1,2	11/04/2013	11/08/2013	IP 71151	Performance Indicator Verification	

Comments:

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

Enclosure