



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

March 4, 2009

Mr. Preston D. Swafford  
Chief Nuclear Officer and Executive Vice President  
Tennessee Valley Authority  
3R Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

SUBJECT: ANNUAL ASSESSMENT LETTER – SEQUOYAH NUCLEAR PLANT  
(NRC INSPECTION REPORT 05000327/2009001 AND 05000328/2009001)

Dear Mr. Swafford:

On February 12, 2009, the NRC staff completed its performance review of the Sequoyah Nuclear Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2008. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only--Security Related Information" will include the Security cornerstone review and resultant inspection plan.

Overall, Sequoyah operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting several non-ROP inspections which include Operator Licensing Examinations, Independent Spent Fuel Storage Installation (ISFSI), and Temporary Instruction (TI) # 2515/172, Reactor Coolant System Dissimilar Metal Butt Welds; and TI # 2515/173, Ground Water Protection Voluntary Initiative.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2010. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 404-562-4659 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

***/RA/***

Heather J. Gepford, Acting Chief  
Reactor Projects Branch 6  
Division of Reactor Projects

Docket Nos.: 50-327, 50-328, 72-034  
License Nos.: DPR-77, DPR-79

Enclosure: Sequoyah Inspection/Activity Plan (03/01/09 - 06/30/10)

cc w/encl.: (See page 3)

cc w/encl:

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**Sequoyah**  
**Inspection / Activity Plan**  
**03/01/2009 - 06/30/2010**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>PSB1-RP - RP OCCUPATIONAL INSPECTION WK1 (OUTAGE)</b>		<b>2</b>
1, 2	03/30/2009	04/03/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1, 2	03/30/2009	04/03/2009	IP 7112102	ALARA Planning and Controls	
1, 2	03/30/2009	04/03/2009	IP 7112202	Radioactive Material Processing and Transportation	
1, 2	03/30/2009	04/03/2009	IP 71151	Performance Indicator Verification	
			<b>EB3ISI - UNIT 1 INSERVICE INSPECTION</b>		<b>2</b>
1	04/06/2009	04/10/2009	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EB3TI172 - TI-172 RCS DM BUTT WELDS</b>		<b>1</b>
1	04/06/2009	04/10/2009	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			<b>PSB1-RP - RP OCCUPATIONAL INSPECTION WK2 (OUTAGE)</b>		<b>2</b>
1, 2	04/13/2009	04/17/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1, 2	04/13/2009	04/17/2009	IP 7112102	ALARA Planning and Controls	
1, 2	04/13/2009	04/17/2009	IP 7112202	Radioactive Material Processing and Transportation	
1, 2	04/13/2009	04/17/2009	IP 71151	Performance Indicator Verification	
			<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>6</b>
1	07/13/2009	07/17/2009	IP 71152B	Identification and Resolution of Problems	
1	07/27/2009	07/31/2009	IP 71152B	Identification and Resolution of Problems	
			<b>EB3-HS - HEAT SINK</b>		<b>1</b>
1, 2	08/24/2009	08/28/2009	IP 7111107T	Heat Sink Performance	
			<b>PSB1EP - EMERGENCY PREPAREDNESS INSPECTION</b>		<b>1</b>
1, 2	10/19/2009	10/23/2009	IP 7111402	Alert and Notification System Testing	
1, 2	10/19/2009	10/23/2009	IP 7111403	Emergency Response Organization Augmentation Testing	
1, 2	10/19/2009	10/23/2009	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	10/19/2009	10/23/2009	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	10/19/2009	10/23/2009	IP 71151	Performance Indicator Verification	
			<b>EB3ISI - UNIT 2 INSERVICE INSPECTION</b>		<b>1</b>
2	11/02/2009	11/06/2009	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EB3TI172 - TI-172 RCS DM BUTT WELDS</b>		<b>1</b>
2	11/02/2009	11/06/2009	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			<b>EB3SGISI - UNIT 2 STEAM GENERATOR ISI</b>		<b>1</b>
2	11/09/2009	11/13/2009	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>
1	12/07/2009	12/11/2009	V23287	SEQUOYAH/JANUARY 2010 EXAM AT POWER FACILITIES	
			<b>PSB1-RP - RP GROUND WATER INITIATIVE</b>		<b>1</b>
1, 2	12/07/2009	12/11/2009	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	

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

**Sequoyah**  
**Inspection / Activity Plan**  
**03/01/2009 - 06/30/2010**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>OL EXAM - INITIAL EXAM - WEEK 1</b>		<b>3</b>
1	01/18/2010	01/22/2010	V23287	SEQUOYAH/JANUARY 2010 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 2</b>		<b>3</b>
1	01/25/2010	01/29/2010	V23287	SEQUOYAH/JANUARY 2010 EXAM AT POWER FACILITIES	
			<b>CDBI - COMPONENT DESIGN BASES INSPECTION</b>		<b>7</b>
1, 2	03/01/2010	03/05/2010	IP 7111121	Component Design Bases Inspection	
1, 2	03/15/2010	03/19/2010	IP 7111121	Component Design Bases Inspection	
1, 2	03/29/2010	04/02/2010	IP 7111121	Component Design Bases Inspection	
1, 2	04/12/2010	04/16/2010	IP 7111121	Component Design Bases Inspection	

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

Enclosure