



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

September 1, 2010

Mr. R. M. Krich
Vice President, Nuclear Licensing
Tennessee Valley Authority
3R Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –
SEQUOYAH NUCLEAR STATION UNITS 1 AND 2**

Dear Mr. Krich:

On August 12, 2010, the NRC staff completed its performance review of the Sequoyah Nuclear Station Units 1 and 2. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009 through June 30, 2010. 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 the 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 performance review and resultant inspection plan.

Plant performance for the most recent quarter, at Sequoyah Units 1 and 2, 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.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2011. In addition to ROP baseline inspection activities, we also plan on conducting several infrequently performed inspections, which include In-service inspections; TI 2515/177, Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, And Containment Spray Systems; Independent Spent Fuel Storage Installation; and operator licensing examinations. The inspection plan is provided to minimize the resource impact on your staff and 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 end-of-cycle review meeting.

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).

As you may know, the NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 404-997-4662 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Eugene F. Guthrie, 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

cc w/encl: (See page 3)

TVA

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Sequoyah
Inspection / Activity Plan
09/01/2010 - 12/31/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			OL EXAM - INITIAL EXAM WEEK 1		6
1	09/13/2010	09/17/2010	V23308	SEQUOYAH/AUGUST 2010 EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM WEEK 2		6
1	09/20/2010	09/24/2010	V23308	SEQUOYAH/AUGUST 2010 EXAM AT POWER FACILITIES	
			EB3ISI - UNIT 1 INSERVICE INSPECTION		1
1	10/11/2010	10/15/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			EB3TI172 - EB3 RX COOLANT SYSTEM DM BUTT WELDS		1
1	10/11/2010	10/15/2010	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			PSB1-RP - RP OCCUPATIONAL BASELINE		2
1,2	10/18/2010	10/22/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	10/18/2010	10/22/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	10/18/2010	10/22/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	10/18/2010	10/22/2010	IP 71151	Performance Indicator Verification	
			PSB1-RP - RP OCCUPATIONAL- TRANSPORTATION		1
1,2	11/15/2010	11/19/2010	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			PSB1EP - EMERGENCY PREPAREDNESS EXERCISE		4
1,2	11/15/2010	11/19/2010	IP 7111401	Exercise Evaluation	
1,2	11/15/2010	11/19/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	11/15/2010	11/19/2010	IP 71151	Performance Indicator Verification	
			TI-177 - GAS INTRUSION		2
1,2	11/29/2010	12/03/2010	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
			OL RQ - REQUAL INSPECTION		3
1,2	12/06/2010	12/10/2010	IP 7111111B	Licensed Operator Requalification Program	
			TFPI - TRIENNIAL FIRE PROTECTION INSPECTION		7
1,2	01/24/2011	01/28/2011	IP 7111105T	Fire Protection [Triennial]	
1,2	02/07/2011	02/11/2011	IP 7111105T	Fire Protection [Triennial]	
			PSB1-RP - RP RADIOLOGICAL HAZARD ASSESSMENT		1
1,2	04/25/2011	04/29/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			EB3ISI - UNIT 2 INSERVICE INSPECTION		1
2	05/02/2011	05/06/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			EB3SGISI - UNIT 2 SG INSERVICE INSPECTION		1
2	05/09/2011	05/13/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		7
1,2	08/01/2011	08/05/2011	IP 71152B	Identification and Resolution of Problems	
1,2	08/15/2011	08/19/2011	IP 71152B	Identification and Resolution of Problems	

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

Enclosure

Sequoyah
Inspection / Activity Plan
09/01/2010 - 12/31/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
PSB1-RP - RP PUBLIC RADIATION PROTECTION INSP					4
1,2	09/12/2011	09/16/2011	IP 71124.04	Occupational Dose Assessment	
1,2	09/12/2011	09/16/2011	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	09/12/2011	09/16/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	09/12/2011	09/16/2011	IP 71124.07	Radiological Environmental Monitoring Program	
1,2	09/12/2011	09/16/2011	IP 71151	Performance Indicator Verification	
PSB1EP - EMERGENCY PREPAREDNESS INSPECTION					1
1,2	11/14/2011	11/18/2011	IP 7111402	Alert and Notification System Testing	
1,2	11/14/2011	11/18/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	11/14/2011	11/18/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	11/14/2011	11/18/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	11/14/2011	11/18/2011	IP 71151	Performance Indicator Verification	
OL EXAM - INITIAL EXAM PREP					5
1	12/19/2011	12/23/2011	V23354	SEQUOYAH/JANUARY 2012 EXAM AT POWER FACILITIES	

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Enclosure