



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

August 30, 2004

Tennessee Valley Authority
ATTN.: Mr. K. W. Singer
Chief Nuclear Officer and
Executive Vice President
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
SEQUOYAH NUCLEAR POWER PLANT**

Dear Mr. Singer:

On August 4, 2004, the NRC staff completed its mid-cycle plant performance assessment of the Sequoyah Nuclear Plant. The mid-cycle review for Sequoyah involved the participation of all technical divisions in evaluating performance for the first half of the calendar year 2004 assessment cycle. The process included a review of performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 will allow you an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities. This performance review and the enclosed inspection plan do not include physical protection information. A separate mid-cycle performance review letter, designated and marked as "Proprietary Information in accordance with 10 CFR 2.390(d)(1)," will include the physical protection review and a resultant inspection plan.

Plant performance for the most recent quarter 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, in accordance with the NRC Reactor Oversight Process, we plan to conduct only baseline inspections at your facility through March 31, 2006. However, we also will need to conduct several inspections which are not part of the routine baseline inspection program. During your Unit 1 refueling outage, an inspection of your response to NRC Bulletin 2004-01: Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors, will be conducted using a Temporary Instruction. In addition, we will conduct safety issue inspections to follow-up on industry issues with respect to Reactor Containment Sump Blockage and Reactor Pressure Vessel Lower Head penetrations. We also will do a routine inspection of your Independent Spent Fuel Storage operations.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last twelve 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).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (404) 562-4520 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Stephen J. Cahill, Chief
Reactor Projects Branch 6
Division of Reactor Projects

Docket Nos. 50-327, 50-328 and 72-34
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
09/01/2004 - 03/31/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	OL RQ - REQUAL INSPECTION		3			
1, 2	IP 7111111B	Licensed Operator Requalification Program		10/04/2004	10/08/2004	Baseline Inspections
	DRP BR6 - U-1: RPV LOWER HEAD PENETRATION		1			
1	IP 2515/152	Reactor Pressure Vessel Lower Head Penetration Nozzles (NRC Bulletin 2003-02)		10/25/2004	10/29/2004	Safety Issues
	EB2-ISI - UNIT 1 INSERVICE INSPECTION / PZR. PEN.		1			
1	IP 7111108P	Inservice Inspection Activities - PWR		11/01/2004	11/05/2004	Baseline Inspections
	DRP BR6 - UNIT 1 SUMP TI 2515/153 INSPECTION		1			
1	IP 2515/153	Reactor Containment Sump Blockage (NRC Bulletin 2003-01)		11/15/2004	11/19/2004	Safety Issues
	EB2SGISI - STEAM GENERATOR ISI		2			
1	IP 7111108P	Inservice Inspection Activities - PWR		11/15/2004	11/19/2004	Baseline Inspections
	EB1SSDPC - SSDPC PRE-INSPECTION VISIT		2			
1, 2	IP 7111121	Safety System Design and Performance Capability		01/17/2005	01/21/2005	Baseline Inspections
	EB1SSDPC - SAFETY SYSTEM DESIGN & PERF. CAPABILITY		5			
1, 2	IP 7111121	Safety System Design and Performance Capability		02/14/2005	02/18/2005	Baseline Inspections
1, 2	IP 7111121	Safety System Design and Performance Capability		02/28/2005	03/04/2005	Baseline Inspections
	EB2-HS - HEAT SINK		1			
1, 2	IP 7111107B	Heat Sink Performance		03/28/2005	04/01/2005	Baseline Inspections
	PS-RP - RAD PROTECTION OCCUPATIONAL - WEEK 1		2			
1, 2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		04/25/2005	04/29/2005	Other Routine
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		04/25/2005	04/29/2005	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		04/25/2005	04/29/2005	Baseline Inspections
1, 2	IP 7112202	Radioactive Material Processing and Transportation		04/25/2005	04/29/2005	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		04/25/2005	04/29/2005	Baseline Inspections
	EB2-ISI - UNIT 2 INSERVICE INSPECTION		1			
2	IP 7111108P	Inservice Inspection Activities - PWR		05/02/2005	05/06/2005	Baseline Inspections
	60855.1 - ISFSI OPERATIONS INSPECTION		1			
1, 2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		05/09/2005	05/13/2005	Other Routine
	EB2SGISI - STEAM GENERATOR ISI		1			
2	IP 7111108P	Inservice Inspection Activities - PWR		05/16/2005	05/20/2005	Baseline Inspections
	PS-RP - RAD PROTECTION OCCUPATIONAL - WEEK 2		1			
1, 2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		05/16/2005	05/20/2005	Other Routine
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		05/16/2005	05/20/2005	Baseline Inspections
1, 2	IP 7112202	Radioactive Material Processing and Transportation		05/16/2005	05/20/2005	Baseline Inspections
1, 2	IP 7112202	Radioactive Material Processing and Transportation		05/16/2005	05/20/2005	Baseline Inspections

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

ENCLOSURE

Sequoyah
Inspection / Activity Plan
09/01/2004 - 03/31/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	PS-RP	- RAD PROTECTION OCCUPATIONAL - WEEK 2	1			
1,2	IP 71151	Performance Indicator Verification		05/16/2005	05/20/2005	Baseline Inspections
	OL EP	- EP INSPECTION	1			
1,2	IP 7111402	Alert and Notification System Testing		06/20/2005	06/24/2005	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		06/20/2005	06/24/2005	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		06/20/2005	06/24/2005	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		06/20/2005	06/24/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		06/20/2005	06/24/2005	Baseline Inspections
	PI&R	- PROBLEM IDENTIFICATION AND RESOLUTION	4			
1,2	IP 71152B	Identification and Resolution of Problems		07/11/2005	07/15/2005	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		07/25/2005	07/29/2005	Baseline Inspections
	EB2-MODS	- MODIFICATIONS/10CFR50.59	4			
1,2	IP 71111	Reactor Safety-Initiating Events, Mitigating Systems, Barrier Integrity		08/22/2005	08/26/2005	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		08/22/2005	08/26/2005	Baseline Inspections
	EB1-TFP	- TFP PRE-INSPECTION VISIT	4			
1,2	IP 7111105T	Fire Protection		10/03/2005	10/07/2005	Baseline Inspections
	EB1-TFP	- TRIENNIAL FIRE PROTECTION (TFP) INSP	4			
1,2	IP 7111105T	Fire Protection		10/31/2005	11/04/2005	Baseline Inspections
1,2	IP 7111105T	Fire Protection		11/14/2005	11/18/2005	Baseline Inspections
	OP PREP	- INITIAL PREP	2			
1	V23215	SEQUOYAH/EXAMS AT POWER FACILITIES		11/14/2005	11/18/2005	Not Applicable
	OL EXAM	- INITIAL EXAM	2			
1	V23215	SEQUOYAH/EXAMS AT POWER FACILITIES		12/05/2005	12/09/2005	Not Applicable
	PS-RP	- RP PUBLIC BASELINE	3			
1,2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		01/23/2006	01/27/2006	Other Routine
1,2	IP 7112101	Access Control to Radiologically Significant Areas		01/23/2006	01/27/2006	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/23/2006	01/27/2006	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		01/23/2006	01/27/2006	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program		01/23/2006	01/27/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		01/23/2006	01/27/2006	Baseline Inspections
	EB2-MR	- MAINTENANCE RULE	1			
1,2	IP 7111112B	Maintenance Effectiveness		02/13/2006	02/17/2006	Baseline Inspections

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