



**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.

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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)

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SIGNATURE	CRK /RA/	EFG /RA/					
NAME	CKontz	EGuthrie					
DATE	09/01/2010	09/01/2010					
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Letter to R. M. Krich from Eugene Guthrie dated September 1, 2010

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

Distribution w/encl:

C. Evans, RII

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