

July 29, 2004

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

SUBJECT: SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2 — ISSUANCE OF  
CORRECTED PAGE FOR AMENDMENT NOS. 293 AND 283 REGARDING  
EXTENSION OF REACTOR COOLANT PUMP FLYWHEEL INSPECTION  
INTERVALS (TAC NOS. MC2448 AND MC2449)

Dear Mr. Singer:

Following the issuance of Amendment No. 293 to Facility Operating License No. DPR-77 and Amendment No. 283 to Facility Operating License No. DPR-79 for Sequoyah Nuclear Plant (SQN), Units 1 and 2, respectively, an editorial error was noticed on page 2 of the Safety Evaluation (SE). Specifically, part of the first sentence on page 2 of the SE had been inadvertently deleted on the issued hard copy of the license amendment package. This letter forwards the corrected page for insertion into the amendment SE. This page has been telefaxed to Mr. James Smith at the Sequoyah site.

Sincerely

*/RA/*

Robert J. Pascarelli, Senior Project Manager, Section 2  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-327 and 50-328

Enclosure: Corrected SE Page

cc w/enclosure: See next page

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**ENCLOSURE**

**AMENDMENT NOS. 293 AND 283 FOR UNITS 1 AND 2**

**CORRECTED SAFETY EVALUATION PAGE**

Specific requirements to have an RCP flywheel inspection program consistent with RG 1.14 or previously issued relaxations from the RG are included in the Administrative Controls Section of the STSs (included in the Surveillance Requirements (SRs) Section of the SQN TSs). The purpose of the testing and inspection programs defined in the TSs is to ensure that the probability of a flywheel failure is sufficiently small such that additional safety features are not needed to protect against a flywheel failure. The RG provides criteria in terms of critical speeds that could result in the failure of an RCP flywheel during normal or accident conditions. In addition to the guidance in RG 1.14, the NRC has more recently issued RG 1.174, "An Approach for Using Probabilistic Risk Assessment in Risk-Informed Decisions on Plant-Specific Changes to the Licensing Basis," which provides guidance and criteria for evaluating proposed changes that use risk-informed justifications.

A proposed justification for extending the RCP flywheel inspections from a 10-year inspection interval to an interval not to exceed 20 years was provided by the Westinghouse Owners Group (WOG) in Topical Report (TR) WCAP-15666, "Extension of Reactor Coolant Pump Motor Flywheel Examination," transmitted by letter dated August 24, 2001. The TR addressed the proposed extension for all domestic WOG plants. The NRC accepted the TR for referencing in license applications in a letter and safety evaluation dated May 5, 2003 (ADAMS Accession No. ML031250595).

### 3.0 TECHNICAL EVALUATION

TS 4.0.5.c, which governs the reactor coolant pump flywheel inspection program, reflects the licensee's previous adoption of a TS change that defined the allowable alternative to the inspections described in RG 1.14. The inspections are defined as in-place ultrasonic examination over the volume from the inner bore of the flywheel to the circle of one-half the outer radius or an alternative surface examination (magnetic particle testing [MT] and/or liquid penetrant testing [PT]) of exposed surfaces defined by the volume of the disassembled flywheel. The allowable interval for these inspections was extended in the previous amendment to "once every ten years coinciding with the inservice inspection schedule as required by ASME [American Society of Mechanical Engineers, Boiler and Pressure Vessel Code], Section XI." The change proposed in this amendment application would revise the allowable inspection interval to "20-year intervals."

The justification for the proposed change was provided in WCAP-15666, which the staff accepted for referencing in license applications by a letter and safety evaluation dated May 5, 2003. The TR addresses the three critical speeds defined in RG 1.14: (a) the critical speed for ductile failure, (b) the critical speed for non-ductile failure, and (c) the critical speed for excessive deformation of the flywheel. The staff found that the TR adequately addressed these issues and demonstrated that acceptance criteria, for normal and accident conditions defined in RG 1.14, would continue to be met for all domestic WOG plants following an extension of the inspection interval. The TR also provided a risk assessment for extending the RCP flywheel inspection interval. The staff's review, documented in the safety evaluation for the TR, determined that the analysis methods and risk estimates are acceptable when compared to the guidance in RG 1.174.

DISTRIBUTION FOR SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2 - ISSUANCE OF  
CORRECTED PAGES FOR AMENDMENT NOS. 293 AND 283 REGARDING EXTENSION OF  
REACTOR COOLANT PUMP FLYWHEEL INSPECTION INTERVALS

Dated: July 29, 2004

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**SEQUOYAH NUCLEAR PLANT**

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