June 15, 1988

Docket No. 50-327

Mr. S. A. White Manager of Nuclear Power Tennessee Valley Authority 6N 38A Lookout Place 1101 Market Street Chattanooga, Tennessee 37402-2801

Dear Mr. White:

SUBJECT: ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT FOR AN EXEMPTION FROM 10 CFR PART 50, APPENDIX J, TYPE B AND C LEAK RATE TESTING (TAC R00219)

Re: Sequoyah Nuclear Plant, Unit 1

Dear Mr. White:

Enclosed is a copy of an "Environmental Assessment and Finding of No Significant Impact" related to your August 5, 1987 request for a one-time only schedular exemption from Type B and C testing requirements of Appendix J to 10 CFR Part 50 for Sequoyah Unit 1. The Assessment has been forwarded to the Office of the Federal Register for publication.

Sincerely,

Original Signed by

Suzanne Black, Assistant Director for Projects TVA Projects Division Office of Special Projects

8806270342 880615 PDR ADDCK 05000327 PDR PDR

Enclosure: As stated

3 /88

(ð/

cc w/enclosure: See next page DISTRIBUTION OGC Docket File J. Rutberg NRC PDR E. Jordan Local PDR J. Partlow Projects Reading ACRS(10) S. Ebneter GPA/PA J. Axelrad TVA-Rockville S. Richardson SQN Rdg. File S. Black M. Simms J. Donohew MSimms ew:as

28

OGC ATTA TVA: ADLP S H Lowis SBlack 6/13/88 6/15/88 Mr. S. A. White Tennessee Valley Authority

cc: General Counsel Tennessee Valley Authority 400 West Summit Hill Drive E11 B33 Knoxville, Tennessee 37902

Mr. R. L. Gridley Tennessee Valley Authority 5N 157B Lookout Place Chattanooga, Tennessee 37402-2801

Mr. H. L. Abercrombie Tennessee Valley Authority Sequoyah Nuclear Plant P.O. Box 2000 Soddy Daisy, Tennessee 37379

Mr. M. R. Harding Tennessee Valley Authority Sequoyah Nuclear Plant P.O. Box 2000 Soddy Daisy, Tennessee 37379

Mr. D. L. Williams Tennessee Valley Authority 400 West Summit Hill Drive W10 B85 Knoxville, Tennessee 37902

County Judge Hamilton County Courthouse Chattanooga, Tennessee 37402 Sequoyah Nuclear Plant

Regional Administrator, Region II U.S. Nuclear Regulatory Commission 101 Marietta Street, N.W. Atlanta, Georgia 30323

Resident Inspector/Sequoyah NP c/o U.S. Nuclear Regulatory Commission 2600 Igou Ferry Road Soddy Daisy, Tennessee 37379

Mr. Richard King c/o U.S. GAO 1111 North Shore Drive Suite 225, Box 194 Knoxville, Tennessee 37919

Mr. Michael H. Mobley, Director Division of Radiological Health T.E.R.R.A. Building, 6th Floor 150 9th Avenue North Nashville, Tennessee 37219-5404

Dr. Henry Myers, Science Advisor Committee on Interior and Insular Affairs U.S. House of Representatives Washington, D.C. 20515

# [7590-01]

# UNITED STATES NUCLEAR REGULATORY COMMISSION TENNESSEE VALLEY AUTHORITY DOCKET NO. 50-327 ENVIRONMENTAL ASSESSMENT AND

## FINDING OF NO SIGNIFICANT IMPACT

The U. S. Nuclear Regulatory Commission (the Commission) is considering issuance of a one-time only schedular exemption from the Type B and C testing requirements of Appendix J to 10 CFR Part 50 to the Tennessee Valley Authority (the licensee) for the Sequoyah Nuclear Plant, Unit 1, located at the licensee's site in Hamilton County, Tennessee. The exemption was requested by the licensee by letter dated August 5, 1987.

#### ENVIRONMENTAL ASSESSMENT

8806280012 88061 CF ADDCK 05000

<u>Identification of Proposed Action:</u> This one-time only proposed exemption will permit the licensee to defer the required Type B and C leakage tests for Unit 1 until before the unit enters Mode 4 in returning to power from its current outage. Sections III.D.2 and III.D.3 of Appendix J to 10 CFR Part 50, require Types B and C Leakage Test, respectively, at intervals in no case greater than two years. Sequoyah Unit 1 was shutdown for refueling on August 22, 1985. During refueling from late August 1985 to late November 1985, all Unit 1 Type B and C Tests were performed. Since that time, Unit 1 has remained in cold shutdown (Mode 5). The end of the two year test interval for Type B and C Tests expired in late August to November 1987. Because the Unit 1 outage extended past August 1987, the licensee in its letter dated August 5, 1987 requested that the Type B and C Tests be deferred on a one-time basis until before Unit 1 enters Mode 4.

-

The Sequoyah Unit 1 Technical Specifications 3.6.1.1 and 3.6.1.2 require that primary containment integrity be maintained only when in Modes 1, 2, 3 and 4. Type B and Type C Tests are required for assuring containment integrity in these modes. Unit 1 has been in Mode 5 (cold shutdown) since August 1985 and containment integrity has not been required because the reactor has been in the cold shutdown condition. Prior to entering Mode 4 (Heatup at Power), the licensee will conduct the Type B and C Leakage Tests in order to ensure containment integrity.

The Need for the Proposed Action: The proposed exemption is needed to permit the licensee to operate the plant without being in violation of the Commission's requirements.

Environmental Impact of the Proposed Action: The Commission has completed its evaluation of the proposed exemption to the testing schedular requirements of Appendix J. The need for such testing is to ensure that containment penetrations and isolation valves once closed do not leak following an accident. However, Sequoyah Unit 1 has been in cold shutdown since August 1987 when the 2-year test interval expired. Therefore, containment integrity has not been required for Unit 1 and the isolation valves have not needed to be and were not Type B and C tested. Prior to entering Mode 4 when containment integrity is required, the valves will be Type B and C tested.

The proposed exemption would accept the fact that the licensee did not conduct Type B and Type C tests by August to November 1987 and has delayed these tests until prior to entry into Mode 4 in its return to power from this outage when containment integrity is required. Because the plant has remained in Mode 5 since August 1987 and the licensee will conduct the tests prior to

-2-

entry into Mode 4, the proposed exemption does not increase the probability or consequences of accidents, does not change the types of any effluents that may be released offsite, and does not increase the allowable individual or cumulative occupational radiation exposure. Accordingly, the Commission concludes that this proposed exemption would result in no significant radiological environmental impact.

With regard to potential non-radiological impacts, the proposed exemption involves systems located within the restricted areas as defined in 10 CFR Part 20. It does not affect non-radiological plant effluents and has no other environmental impact. Therefore, the Commission concludes that there are no significant non-radiological environmental impacts associated with the proposed exemption.

Therefore, the proposed exemption does not significantly change the conclusions in the "Final Environmental Statement Related to the Operation of Sequoyah Nuclear Plant Units 1 and 2," dated July 1974.

<u>Alternative to the Proposed Action:</u> Because the staff has concluded that there is no significant environmental impact associated with the proposed exemption, alternatives with equal or greater environmental impacts were not evaluated.

Alternative Use of Resources: This action does not involve the use of resources not previously considered in connection with the "Final Environmental Statement Related to the Operation of Sequoyah Nuclear Plant, Units 1 and 2" dated July 1974.

<u>Agencies and Persons Consulted:</u> The NRC staff reviewed the licensee's request for the proposed exemption. The NRC staff did not consult other agencies or persons.

-3-

Jr. 1

### FINDING OF NO SIGNIFICANT IMPACT

The Commission has determined not to prepare an environmental impact statement for the proposed exemption.

Based upon the environmental assessment, we conclude that the proposed action will not have a significant adverse effect on the quality of the human environment.

For details with respect to this action, see the request for exemption dated August 5, 1987, which is available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C., and at the Chattanooga-Hamilton County Bicentennial Library, 1001 Broad Street, Chattanooga, Tennessee 37402.

Dated at Rockville, Maryland, this 15th day of June 1988.

FOR THE NUCLEAR REGULATORY COMMISSION.

Black 12anne

Suzanne Black, Assistant Director for Projects TVA Projects Division Office of Special Projects

-4-