February 26, 2004

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

Gentlemen:

In the Matter of) Docket Nos. 50-327 Tennessee Valley Authority) 50-328

SEQUOYAH NUCLEAR PLANT - 2003 ANNUAL REPORTS

Enclosed are the 2003 Annual Reports for Sequoyah. These reports contain a summary of the occupational exposure data and the reactor coolant system specific activity analysis.

These reports are being submitted to satisfy the requirements of Technical Specifications 6.9.1.4 and 6.9.1.5.

There are no commitments contained in this submittal.

Please direct questions concerning this submittal to me at (423) 843-7170 or J. D. Smith at (423) 843-6672.

Sincerely,

Original signed by:

Pedro Salas Licensing and Industry Affairs Manager

Enclosure
cc: See page 2

U.S. Nuclear Regulatory Commission Page 2 February 26, 2004

Enclosure

cc (Enclosure):

Mr. Michael L. Marshall, Jr., Senior Project Manager U.S. Nuclear Regulatory Commission
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Rockville, Maryland 20852-2739

U.S. Nuclear Regulatory Commission ATTN: REIRS Project Manager Mail Stop T-9 C24 Washington, D.C. 20555

TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT

UNITS 1 AND 2

ANNUAL REPORTS TO THE

NUCLEAR REGULATORY COMMISSION

JANUARY 1, 2003 - DECEMBER 31, 2003

DOCKET NUMBERS 50-327 AND 50-328

LICENSE NUMBERS DPR-77 AND DPR-79

SEQUOYAH NUCLEAR PLANT 2003 ANNUAL REPORTS

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SEQUOYAH NUCLEAR PLANT (SQN) UNITS 1 AND 2 2003 ANNUAL REPORTS

OVERVIEW

Occupational Exposure Data

Attached is the exposure data for personnel at SQN that received greater than 100 millirem (mrem) between January 1 and December 31, 2003. The numbers of personnel listed in the attached report are calculated fractions based on personnel and Radiation Work Permits code classifications. Exposure data for special maintenance is based on the following activities:

- Mechanical and Electrical Valve Modifications
- Replace Unit 1 Electrical Penetration Numbers 18, 33, and 39
- Unit 1 Steam Generator Replacement
- Auxiliary building Thermolag Upgrade
- Unit 2 Upper Containment Expand Reactor Head Stand Bio-Shield Wall Opening
- Units 1 and 2 Install High Point Vent Taps in ECCS Piping
- Unit 2 Upper/Lower Containment Replace RPI Cables
- ERCW Piping Repair and Replacement and Enhancement
- Preparation for Dry Cask Storage
- Placement of Remote Monitor in Reactor Cavity
- Replacement of Piping and Upgrades to the Primary Water Storage Tank
- Replacement of Piping and Upgrades to the Reactor Coolant Drain Tank
- Replacement of and Rerouting Control Air Tubing and Flex Hose to 1-PCV-068-00340B

The cumulative external radiation exposure for calendar year 2003 for persons receiving more than 100 mrem/year is 402.191 rem. The total whole body exposure received from external sources for calendar year 2003, as measured by TLD, is 426.483 rem. As required by the respective units' Technical Specifications, at least 80% of the total site exposure for persons receiving more than 100 mrem has been assigned to specific major work activities.

Sequovah Nuclear Plant Date: 20-FEB-2004 13:46 P.O. Box 2000

Soddy Daisy, TN 37384-2000

LICENSE: DPR-77 AND DPR-79

ENGINEERING PERSONNEL

Regulatory Guide 1.16 Information End of Year Report 2003

Number of Personnel > 100 mrem Total man-rem * Work and Job Function Utility Contractor Station Station Utility Contractor ROUTINE OPERATIONS AND SURVEILLANCE MAINTENANCE PERSONNEL 0.806 0.000 0.354 0.232 0.000 0.055 OPERATIONS PERSONNEL 24.276 2.865 0.000 4.364 0.491 0.000 HEALTH PHYSICS PERSONNEL 2.754 0.029 6.341 0.548 0.005 1.374 SUPERVISORY PERSONNEL 0.002 0.000 0.000 0.001 0.000 0.000 0.045 ENGINEERING PERSONNEL 0.268 0.000 0.000 0.000 0.000 ROUTINE PLANT MAINTENANCE MAINTENANCE PERSONNEL 94.889 7.507 363.532 30.332 1.857 113.568 3.759 0.445 1.989 0.797 0.073 0.375 OPERATIONS PERSONNEL HEALTH PHYSICS PERSONNEL 19.375 2.905 25.487 8.410 0.778 8.549 0.000 SUPERVISORY PERSONNEL 2.955 1.008 0.000 1.153 0.158 ENGINEERING PERSONNEL 13.142 4.288 3.323 2.886 0.930 0.775 INSERVICE INSPECTION 1.022 2.570 79.994 0.396 22.213 MAINTENANCE PERSONNEL 0.351 OPERATIONS PERSONNEL 1.325 0.578 0.000 0.397 0.100 0.000 HEALTH PHYSICS PERSONNEL 2.949 0.769 4.978 1.026 0.153 1.238 0.000 SUPERVISORY PERSONNEL 4.526 0.912 1.013 0.322 0.000 ENGINEERING PERSONNEL 1.332 5.905 11.304 0.426 1.129 3.357 SPECIAL PLANT MAINTENANCE 1.208 1.698 492.044 0.398 0.219 139.498 MAINTENANCE PERSONNEL 0.011 OPERATIONS PERSONNEL 0.755 0.000 0.118 0.000 0.003 0.742 0.109 29.517 0.182 0.032 9.185 HEALTH PHYSICS PERSONNEL SUPERVISORY PERSONNEL 0.053 0.079 1.000 0.009 0.028 0.107 ENGINEERING PERSONNEL 1.338 0.327 0.276 1.170 1.373 0.315 WASTE PROCESSING 2.148 0.520 MAINTENANCE PERSONNEL 0.194 0.000 0.066 0.000 0.000 0.000 0.000 0.000 0.000 0.000 OPERATIONS PERSONNEL 0.000 HEALTH PHYSICS PERSONNEL 2.222 0.000 1.755 0.443 0.608 SUPERVISORY PERSONNEL 0.000 0.000 0.000 0.000 0.000 0.000

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Sequoyah Nuclear Plant

P.O. Box 2000

Soddy Daisy, TN 37384-2000 LICENSE: DPR-77 AND DPR-79

Regulatory Guide 1.16 Information End of Year Report 2003

Date: 20-FEB-2004 13:46

Number of Personnel > 100 mrem Total man-rem * Work and Job Function Utility Contractor Utility Station Station Contractor REFUELING MAINTENANCE PERSONNEL 5.474 0.806 69.492 1.759 0.170 33.878 OPERATIONS PERSONNEL 1.896 0.119 0.000 0.654 0.017 0.000 HEALTH PHYSICS PERSONNEL 0.956 0.188 3.184 0.319 0.037 1.015 SUPERVISORY PERSONNEL 3.464 0.000 0.000 1.031 0.000 0.000 ENGINEERING PERSONNEL 0.921 1.638 0.000 0.465 0.635 0.000 Totals MAINTENANCE PERSONNEL 103.594 12.580 1007.564 33.183 2.597 309.732 4.006 2.000 0.378 OPERATIONS PERSONNEL 32.011 6.330 0.681 HEALTH PHYSICS PERSONNEL 29.000 4.000 71.262 10.928 1.005 21.969 SUPERVISORY PERSONNEL 11.000 2.000 1.000 3.207 0.508 0.107 ENGINEERING PERSONNEL 17.000 13.000 16.000 4.149 2.970 4.447 Grand Totals 192.604 35.587 1097.826 57.797 7.761 336.633

^{*} The man-rem totals include dose only from individuals receiving more than 100 mrem throughout the year at the site.