



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37384-2000

February 14, 2002

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

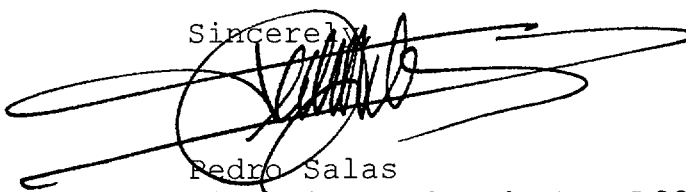
**SEQUOYAH NUCLEAR PLANT - 2001 ANNUAL REPORTS**

Enclosed are the 2001 Annual Reports for Sequoyah. These reports contain a summary of the following items: 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.

This letter is being sent in accordance with NRC RIS 2001-05. Please direct questions concerning this submittal to me at (423) 843-7170 or J. D. Smith at (423) 843-6672.

Sincerely,



Pedro Salas  
Licensing and Industry Affairs Manager

Enclosure  
cc: See page 2

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Enclosure

cc (Enclosure):

U.S. Nuclear Regulatory Commission  
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Washington, D.C. 20555

TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT

UNITS 1 AND 2

ANNUAL REPORTS TO THE

NUCLEAR REGULATORY COMMISSION

JANUARY 1 - DECEMBER 31, 2001

DOCKET NUMBERS 50-327 AND 50-328

LICENSE NUMBERS DPR-77 AND DPR-79

SEQUOYAH NUCLEAR PLANT  
2001 ANNUAL REPORTS

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SEQUOYAH NUCLEAR PLANT (SQN)  
UNITS 1 AND 2  
2001 ANNUAL REPORTS

OVERVIEW

Occupational Exposure Data

Attached is the exposure data for personnel at SQN that received greater than 100 millirem between January 1 and December 31, 2001. 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
- Walkdowns for Unit 1 Steam Generator Replacement
- Change Out Unit 2 Containment Air Radiation Monitors
- Reactor Coolant Pump 2 Platform Modifications
- Install Component Cooling System Relief Valves on the Spent Fuel Pit Heat Exchangers
- Replace GEMAC Component cooling System Level Transmitters with Rosemount Instruments
- Clean, Inspect, and Paint Interior of Unit 1 Primary Water Storage Tank
- Modify and remove Remote Valve Operators (Reach Rods) on Various Systems
- Replace Unit 1 Upper Internals Guide Tube Support Pins (Split Pins)
- Modify Upper Internals Lift Rig Personnel Platforms for Units 1 and 2
- Replace Unit 1 Cold Leg Accumulator Level Transmitters
- Remove Unit 1 Positive Displacement Charging Pump and Room Cooler
- Install Permanent Connections for Mansel Level Indication System
- Elevation 706" Railroad Bay Access Floor for Dry Cask Storage Loading
- Replace Residual Heat Removal Heat Exchanger Drain Valves
- Replace NAMCO Conduit Seals with CONAX
- Add Piping for remote Reactor Coolant Pump Oil Fill

The cumulative radiation exposure for calendar year 2001 for persons receiving more than 100mrem/year is 118.110rem. The total whole body exposure received from external sources for calendar year 2001, as measured by TLD, is 143.289rem. As required by the respective units' Technical Specifications, at least 80% of the total site exposure has been assigned to specific major work activities.

Reactor Coolant System (RCS) Specific Activity Analysis\$Specific Iodine  
Isotopic Activity Concentration and/or DE-131 Determination)

During 2001, there were no specific iodine activity results of Unit 1 or Unit 2 RCSs exceeding the limits of Technical Specification (TS 3.4.8.a (0.35 mCi/gm) during either power operation or reactor shutdown and/or start-up.

P.O. Box 2000  
 Saddy Daisy, TN 37384-2000  
 LICENSE: DPR-77 AND DPR-79

Regulatory Guide 1.16 Information  
 End of Year Report 2001

Work and Job Function	Number of Personnel > 100 mrem			Total man-rem *		
	Station	Utility	Contractor	Station	Utility	Contractor
ROUTINE OPERATIONS AND SURVEILLANCE						
MAINTENANCE PERSONNEL	0.102	0.015	0.281	0.015	0.003	0.052
OPERATIONS PERSONNEL	12.116	0.565	0.000	1.762	0.078	0.000
HEALTH PHYSICS PERSONNEL	4.525	0.000	1.416	0.819	0.000	0.237
SUPERVISORY PERSONNEL	0.022	0.007	0.000	0.005	0.001	0.000
ENGINEERING PERSONNEL	0.180	0.000	0.000	0.027	0.000	0.000
ROUTINE PLANT MAINTENANCE						
MAINTENANCE PERSONNEL	45.572	20.685	108.475	8.880	3.733	28.175
OPERATIONS PERSONNEL	4.021	0.420	0.000	0.534	0.058	0.000
HEALTH PHYSICS PERSONNEL	15.902	1.673	16.505	4.613	0.395	3.354
SUPERVISORY PERSONNEL	4.358	1.200	0.000	1.188	0.139	0.000
ENGINEERING PERSONNEL	3.877	2.023	1.533	0.823	0.240	0.241
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	1.930	3.976	61.334	0.425	1.350	18.237
OPERATIONS PERSONNEL	1.629	0.000	0.000	0.229	0.000	0.000
HEALTH PHYSICS PERSONNEL	2.677	0.327	10.770	1.321	0.092	2.042
SUPERVISORY PERSONNEL	6.563	0.902	0.000	2.732	0.156	0.000
ENGINEERING PERSONNEL	2.196	2.985	8.823	0.760	0.564	2.110
SPECIAL PLANT MAINTENANCE						
MAINTENANCE PERSONNEL	0.128	0.027	69.024	0.030	0.004	19.407
OPERATIONS PERSONNEL	0.017	0.000	0.000	0.006	0.000	0.000
HEALTH PHYSICS PERSONNEL	0.772	0.000	0.209	0.147	0.000	0.030
SUPERVISORY PERSONNEL	0.200	0.204	0.000	0.030	0.030	0.000
ENGINEERING PERSONNEL	0.019	0.218	1.514	0.006	0.057	0.333
WASTE PROCESSING						
MAINTENANCE PERSONNEL	0.138	0.000	0.725	0.027	0.000	0.106
OPERATIONS PERSONNEL	0.000	0.014	0.000	0.000	0.002	0.000
HEALTH PHYSICS PERSONNEL	2.012	0.000	0.940	0.328	0.000	0.454
SUPERVISORY PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
ENGINEERING PERSONNEL	0.000	0.000	0.000	0.000	0.000	0.000
REFUELING						
MAINTENANCE PERSONNEL	1.857	0.297	34.162	0.295	0.046	9.841
OPERATIONS PERSONNEL	1.216	0.000	0.000	0.332	0.000	0.000
HEALTH PHYSICS PERSONNEL	1.113	0.000	0.161	0.308	0.000	0.034
SUPERVISORY PERSONNEL	1.857	0.687	0.000	0.276	0.101	0.000
ENGINEERING PERSONNEL	0.000	0.775	1.130	0.000	0.203	0.287
Totals						
MAINTENANCE PERSONNEL	49.728	25.000	274.000	9.672	5.136	75.818
OPERATIONS PERSONNEL	19.000	1.000	0.000	2.863	0.138	0.000
HEALTH PHYSICS PERSONNEL	27.000	2.000	30.000	7.536	0.487	6.151
SUPERVISORY PERSONNEL	13.000	3.000	0.000	4.231	0.427	0.000
ENGINEERING PERSONNEL	6.272	6.000	13.000	1.616	1.064	2.971
Grand Totals	115.000	37.000	317.000	25.918	7.252	84.940

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