



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

February 8, 2001

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 (SQN) - 2000 ANNUAL REPORTS

Enclosed are the 2000 Annual Reports for SQN. 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.

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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TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT

UNITS 1 AND 2

ANNUAL REPORTS TO THE

NUCLEAR REGULATORY COMMISSION

JANUARY 1 - DECEMBER 31, 2000

DOCKET NUMBERS 50-327 AND 50-328

LICENSE NUMBERS DPR-77 AND DPR-79

SEQUOYAH NUCLEAR PLANT
2000 ANNUAL REPORTS

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**SEQUOYAH NUCLEAR PLANT (SQN)
UNITS 1 AND 2
2000 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, 2000. 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:

- Pipe Support Modifications
- Mechanical and Electrical Valve Modifications
- Rewire Various System 43 (Sampling) Target Rock Valves
- Unit 1 and Unit 2 Ice Condenser Floor Modifications
- Functionally Abandon Unit 1 and 2 Gross Failed Fuel Detectors
- Remove and Replace Unit 1 Reactor Coolant Pump (RCP) 4 Impeller Assembly
- Replace Auxiliary Building Passive Sump Level Switches with Ultrasonic Level Transmitters
- Replace Essential Raw Cooling Water (ERCW) Piping to Unit 1 Upper Compartment Coolers
- Install Unit 1 and 2 Emergency Core Cooling System Pressure Reducing Orifices
- Walkdowns for Unit 1 Steam Generator Piping Replacement
- Change Out Unit 1 Containment Air Radiation Monitors
- Unit 1 RCP 1 Platform Modifications
- Replacement of Damaged Section on Unit 1 Control Rod Drive Cooler Duct
- Install Gate Lift Device in the Spent Fuel Pit Area
- Clean and Re-Coat Interior of Unit 1 Primary Water Storage Tank
- Replace ERCW Piping in the Auxiliary Building Due to Microbiologically Induced Corrosion
- Install Multi-Stage Orifices in Unit 1 and 2 Charging Pump Mini-Flow Piping
- Modify and remove Remote Valve Operators (Reach Rods) on Various Systems

The cumulative radiation exposure for calendar year 2000 for persons receiving more than 100 mrem/year is 312.803 rem. The total whole body exposure received from external sources for calendar year 2000, as measured by TLD, is 338.679 rem. 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 DEI-131 Determination)

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

Regulatory Guide 1.16 Information
 End of Year Report 2000

Work and Job Function	Number of Personnel > 100 mrem			Total man-rem *		
	Station	Utility	Contractor	Station	Utility	Contractor
ROUTINE OPERATIONS AND SURVEILLANCE						
MAINTENANCE PERSONNEL	0.113	0.045	2.390	0.031	0.005	0.994
OPERATIONS PERSONNEL	13.598	1.331	0.000	2.710	0.157	0.000
HEALTH PHYSICS PERSONNEL	9.391	0.017	15.193	2.673	0.002	3.937
SUPERVISORY PERSONNEL	0.335	0.078	0.000	0.075	0.016	0.000
ENGINEERING PERSONNEL	0.470	0.000	0.009	0.087	0.000	0.001
ROUTINE PLANT MAINTENANCE						
MAINTENANCE PERSONNEL	68.618	10.156	300.901	21.504	1.921	84.298
OPERATIONS PERSONNEL	22.216	0.776	2.191	4.621	0.096	0.360
HEALTH PHYSICS PERSONNEL	28.044	3.535	28.142	11.045	0.814	7.880
SUPERVISORY PERSONNEL	6.279	0.545	0.000	2.178	0.108	0.000
ENGINEERING PERSONNEL	20.277	3.256	5.759	3.756	0.823	1.170
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	2.348	0.811	130.319	0.884	0.373	43.229
OPERATIONS PERSONNEL	1.946	0.000	0.005	0.617	0.000	0.001
HEALTH PHYSICS PERSONNEL	4.117	1.681	17.793	1.849	0.848	5.057
SUPERVISORY PERSONNEL	9.688	1.977	0.000	7.267	0.649	0.000
ENGINEERING PERSONNEL	2.409	4.460	9.255	0.743	0.963	2.099
SPECIAL PLANT MAINTENANCE						
MAINTENANCE PERSONNEL	4.565	0.198	182.327	1.559	0.083	50.895
OPERATIONS PERSONNEL	0.715	0.785	0.799	0.135	0.102	0.122
HEALTH PHYSICS PERSONNEL	1.841	0.628	4.291	0.708	0.136	1.246
SUPERVISORY PERSONNEL	0.270	0.053	0.000	0.039	0.009	0.000
ENGINEERING PERSONNEL	0.829	0.556	3.934	0.108	0.118	0.729
WASTE PROCESSING						
MAINTENANCE PERSONNEL	1.071	0.013	3.578	0.336	0.003	0.765
OPERATIONS PERSONNEL	0.023	0.000	0.000	0.004	0.000	0.000
HEALTH PHYSICS PERSONNEL	4.022	0.006	1.619	1.050	0.001	0.867
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

Regulatory Guide 1.16 Information
End of Year Report 2000

Work and Job Function	Number of Personnel > 100 mrem			Total man-rem *		
	Station	Utility	Contractor	Station	Utility	Contractor
REFUELING						
MAINTENANCE PERSONNEL	5.286	1.777	68.446	1.376	0.611	30.855
OPERATIONS PERSONNEL	0.506	0.108	0.006	0.096	0.014	0.001
HEALTH PHYSICS PERSONNEL	1.066	1.132	1.382	0.308	0.177	0.297
SUPERVISORY PERSONNEL	5.939	0.836	0.000	2.214	0.143	0.000
ENGINEERING PERSONNEL	1.015	2.721	1.188	0.160	1.135	0.560
Totals						
MAINTENANCE PERSONNEL	82.000	13.000	687.961	25.690	2.996	211.036
OPERATIONS PERSONNEL	39.004	3.000	3.000	8.183	0.369	0.484
HEALTH PHYSICS PERSONNEL	48.480	7.000	68.419	17.633	1.978	19.284
SUPERVISORY PERSONNEL	22.511	3.489	0.000	11.773	0.925	0.000
ENGINEERING PERSONNEL	25.000	10.993	20.146	4.854	3.039	4.559
Grand Totals	216.996	37.482	779.526	68.133	9.307	235.363

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