



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37379

December 9, 1996

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

Gentlemen:

In the Matter of)
Tennessee Valley Authority)

Docket Nos. 50-327
50-328

SEQUOYAH NUCLEAR PLANT - RESOLUTION OF THERMO-LAG ISSUES - RESPONSE TO
QUESTIONS FROM NOVEMBER 4, 1996 MEETING WITH NRC

Reference: NRC Letter to TVA dated November 8, 1996, "Summary - November 4, 1996,
Meeting With TVA To Brief The Staff On The Status Of Thermo-Lag Fire
Barrier Upgrades At Sequoyah"

In accordance with the above reference, please find attached TVA's response to
questions which were raised during the subject meeting.

Please contact Jim Smith at (423) 843-5672 should you have any questions.

Sincerely,

R. H. Shell
Manager
SQN Site Licensing and Industry Affairs

Enclosures
cc: See page 2

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U. S. Nuclear Regulatory Commission

Page 2

December 9, 1996

cc: Mr. R. W. Hernan, Project Manager (Enclosures)
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NRC Resident Inspector (Enclosures)
Sequoyah Nuclear Plant
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Soddy-Daisy, Tennessee 37379-2000

Regional Administrator (Enclosures)
U.S. Nuclear Regulatory Commission
Region II
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**SEQUOYAH NUCLEAR PLANT
ENCLOSURE
RESPONSE TO ADDITIONAL NRC QUESTIONS ON THERMO-LAG**

NRC requested that TVA make the corrective action documents associated with Thermo-Lag available to their inspectors.

The Sequoyah corrective action documents related to Thermo-Lag are:

- SQ930690PER - Original Problem Evaluation Report (PER) which addressed Thermo-Lag deficiencies in NRC Generic Letter 92-08. This PER was closed to another administrative process based on establishment of compensatory measures.
- SQ961342PER - Current replacement Thermo-lag PER issued following review of conditions closed to administrative processes. This PER will track Thermo-Lag upgrade to completion.
- SQ950685PER - Identified problems with lack of Thermo-Lag protection on certain cables. The PER was closed when a design change eliminated the need for protection on these cables.

NRC requested a historical breakdown of resources expended by TVA on Thermo-Lag resolutions by site (Browns Ferry, Watts Bar, and Sequoyah) and year since the identification of the technical concerns by the staff in 1992 and a breakdown of the projected resources to be expended until the Thermo-Lag issues are resolved.

The resource breakdown by year and site are included as Attachment 1.

NRC requested a comprehensive accounting of the amounts of installed Thermo-Lag in relation to sensitive equipment that TVA's concern about disrupting during this work.

The accounting of installed Thermo-Lag considered to be in areas of sensitive equipment is included as Attachment 2.

SEQUOYAH NUCLEAR PLANT
ATTACHMENT 1
TVA RESOURCE EXPENDITURES ON THERMO-LAG

	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	<u>TOTAL</u>
Testing	\$ 4,341	\$ 278,839	\$ 50,000	\$ 180,610	\$ 44,516				\$ 558,306
BFN	\$ 166,058	\$ 1,946,000	\$ 18,000	\$ 600,000	\$ 180,000				\$ 2,910,058
SNQ			\$ 3,900	\$ 98,200	\$ 68,200	\$ 753,000	\$ 3,075,000	\$ 2,995,000	\$ 6,993,300
WBN			\$ 3,632,237	\$15,341,312	\$ 1,810,000				\$ 20,783,549
TOTAL	\$ 170,399	\$ 2,224,839	\$ 3,704,137	\$16,220,122	\$ 2,102,716	\$ 753,000	\$ 3,075,000	\$ 2,995,000	\$ 31,245,213

NOTE: DATA AS OF OCTOBER 1, 1996

SEQUOYAH NUCLEAR PLANT
ATTACHMENT 2
ACCOUNTING OF INSTALLED THERMO-LAG AROUND SENSITIVE EQUIPMENT

	FY 1997		FY 1998		FY 1999	
	<u>TOTAL</u>	<u>% SENSITIVE</u>	<u>TOTAL</u>	<u>% SENSITIVE</u>	<u>TOTAL</u>	<u>% SENSITIVE</u>
<u>CONDUIT</u>						
Initial Inspections	4374 ft	49	1121 ft	38	1121 ft	38
Upgrades						
<u>SPECIAL CONFIGURATIONS</u>						
Initial Inspections	1646 sq ft	32	823 sq ft	32	823 sq ft	32
Upgrades						