TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

81-436-000

May 26, 1981

SQRD-50-328/81-33

Mr. James P. O'Reilly, Director Office of Inspection and Enforcement U.S. Nuclear Regulatory Commission Region II - Suite 3100 101 Marietta Street Atlanta, Georgia \30303

Dear Mr. O'Reilly:

SEQUOYAH NUCLEAR PLANT UNIT 2 - REACTOR COOLANT PUMP NO. 3, SEAL NO. 1 BYPASS, PIPING ANALYSIS ERROR - SQRD-50-328/81-33 - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on May 6, 1981 in accordance with 10 CFR 50.55(e) as NCR SQN CEB 8111. Enclosed is our final report. We consider 10 CFR 21 applicable to this deficiency.

If you have any questions, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Director (Enclosure) Office of Inspection and Enforcement U.S. Nuclear Regulatory Commission Washington, DC 20555

SEQUOYAH NUCLEAR PLANT UNIT 2
REACTOR COOLANT PUMP NO. 3, SEAL NO. 1 BYPASS
PIPING ANALYSIS ERROR
SQRD-50-328/81-33
10 CFR 50.55(e)
FINAL REPORT

Description of Condition

The 3/4-inch No. 1 seal bypass piping for reactor coolant pump (RCP) No. 3 had piping movements during hot functional testing thich caused certain snubbers to move in a direction opposite to that anticipated by design. The piping analysis for the affected piping is 0600154-08-17 and is a reanalysis of an EDS Nuclear problem performed by Gilbert Commonwealth. The current analysis was found to have incorrect input movements of the RCP No. 3, which were determined by Gilbert Commonwealth.

Safety Implications

Pipe movement in a direction opposite to that for which the snubbers are oriented would cause the snubbers to lock, which would greatly increase the stresses in the pipe. An inordinate increase in pipe stresses could cause the pipe to break, resulting in a LOCA.

Corrective Action

TVA has performed a piping analysis which indicates that changing out one snubber and resetting one spring hanger will resolve this problem. These changes will be accomplished before fuel loading.

TVA has instructed the contractor to ensure that existing check procedures, which are designed to catch deficiencies of this nature, are more closely adhered to. In addition, TVA has developed an independent checklist to be completed by TVA which reviews the contractor's analyses. This checklist will be attached to the analysis reports, documenting TVA's review.

	PART 21 IDENTIFICATION NO	81-436-000 00	PANY NAME TUA
DATE OF LETTER 5/26/81 DOOKET NO. 50-3 28			
	DATE DISTRIBUTED	ORIGINAL REPORT	SUPPLEI ENTARY
	DISTRIBUTION:		
	REACTOR (R)	FUEL CYCLE &	SAFEGUARDS (S)
	IE FILES	MATERIALS (M)	
	ES - mills	IE FILES	IE FILES
		AD/FR/SI	AD/SG
	REGIONS I, II, III, IV, V	REGIONS I, II, III, IV, V	AD/ROI
	VENDOR BR. R-IV	VENDOR BR. R-IV	REGIONS I, II, III, IV, V
	LOEB / MPA MVB 5715	NMSS / FCMS SS-395	VENDOR BR. R-IV
	AEOD , MVB 7602	LOEB / MPA MB 5715	NRR/DOL
	CLECTO DMU MINB 7217 NRRVDOE		NMSS / SG SS-881
	NRR/DSI	AEOD MB 7002 CHUDIDMU MAB 7217 ASLBP EN 450	LOEB / MPA MNB 5715 AEOD . MNB 7602
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1	TERA	JUN 0 4 1981	
	ACTION:	COMMISS KINS	
	PRELIMINARY EVALUATION OF THE ATTA ED REPORT HOTCATES LEAD RESPONSIBILITY FOR		
	FOLLOWUP AS SHOWN BELOW:		
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	EES		
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