TENNESSEE VALLEY AUTHOF'TY

CHATTANOOGA. TENNESSEE 37401 500A Chestnut Street Tower II

October 15, 1981

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

Dear Mr. O'Reilly:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 1 -DOCKET NO. 50-327 - FACILITY OPERATING LICENSE DPR-77 - 10 CFR 21 REPORT

A liquid penetrant examination on fabrication welding of an orifice flange for auxiliary feedwater piping revealed unacceptable indications on the flange. If the flange had been installed and had failed, the auxiliary feedwater system potentially could not have been capable of delivering design flow. This problem which is reportable under 10 CFR 21 was reported to me on October 14, 1981.

The enclosed Part 21 report contains additional information about this matter.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

H. G. Parris Manager of Power

Enclosure

IEII



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Attachment 1

PART 21 REPORT

Plant: Sequoyah Nuclear Plant - Unit 1 References: Procurement Contract No. 81PK6-18286

Component or System Identification: Orifice Flange - 4 inch - 600 lb., weld neck, raised face, ASME SA-105, bored to match schedule 80 pipe, 12 inch tapped openings.

Supplier of Component: Hub, Inc., P. O. Box 125, Tucker, Georgia 30084

Nature of Defect or Noncompliance: During fabrication of a replacement orifice flange to a pipe for the auxiliary feedwater system, liquid penetrant examinatio of the pipe to orifice flange weld revealed unacceptable rounded and linear indications in the flange. Three other flanges from the same contract which were not yet in the fabrication stage were then liquid penetrant examined. Of these three, two were found to be unacceptable and one was acceptable. Upon receipt at TVA, the four (4) orifice flanges were acc-ptable to contract requirements based on visual examination and review of vendor certifications.

Extent of Safety Hazard: If component had been installed and failed, the auxiliary feedwater system would not have been capable of delivering design flow which is required to mitigate several accidents analyzed in Lue FSAR.

Date Which Defect or Goucompliance Was Discovered: 09/28/81.

Number of Identical Components in Use: No deficient components have ever been installed for use.

Location of Components: Auxiliary Feeduater System. The components were tested prior to installation and found unacceptable.

Corrective Action Taken 6. To Be Taken: The acceptable orifice flange was installed in the system. The three unacceptable orifice flanges were no conforme 4 and scrapped locally,

Length of Time Required to Complete Action: Not applicable.

Has defect or noncomit or been reported previously? Yes No X

If yes, by what means? Not opplicable,

Alexa B. Sick 2-14-51 Prepared By Date Date Date Approved Lofiefor Date

Standard Practice

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Attachment 2

EVALUATION LOGIC FOR PART 21

		Yes	No
I. Deficiency of a plant security system	m?	t.J.	(x
1. Couló defect create a substanti	al safety hazard?		[x]
If yes, report as part 21.		$\mathcal{D}_{i_1} = \mathcal{D}_{i_2}$	
II. Is the component necessary to easure	:		
i. The integrity of the reactor co	olast boundary?		Lx.
 The capability to shut down realition it is a safe shutdown condition 	ctor and maintain	L	
 The capability to prevent or mi consequences of accidents which potential offsite exposure comp referred to in 10 CTR 100.11? 	tigate the could result in arable to those		x
III. Is defect in a basic component one t accepted for ownership?	hat has been .	LxJ	
Installed for use or operation?		[]	[y.;
If a yes in II and III above, could defect a substantial safety hazard?	t create	_x	1
If yes, report as part 21			
IV. Is defect in a basic component:			
A condition that could contribute to of safety limit?	exceeding		
If yes to one of 11 and 1V above, report .	us part 21.		
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