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Browns Ferry - Unit 1							15   0   0	012 1 519	1 OF	012		
TITLE (4)												
Seismical	y Und	qualifie	d Flang	ged Joi	nts							
EVENT DATE (5)	_	LER NUMBER	6)	REPORT D	ATE (7)		OTHER F	ACILITIES INVOL	VED (8)	D(C)		
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OPERATING	THIS RE	PORT IS SUBMITTE	C PURSUANT T	TO THE REQUIRE	MENTS OF 10	CFR §: /(	Check one or more of	the following) (11	)			
MODE (9)	20	402(b)		20.405(c)		_	50.73(e)(2)(iv)		73.71(b)			
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			L	ICENSEE CONTA	CT FOR THIS	LER (12)						
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Stephen B.	Jones	1						21015	712191-	12 1 5	1318	
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## TEXT (If more space is required, use additional NRC Form 366A's) (17)

Units 1 and 2 were in a refueling outage, and unit 3 was in cold shutdown. All three units were affected.

On July 6, 1985, through July 9, 1985, engineering reviews were completed on the flanged joints of the chilled water recirculation pumps in the unit 3 diesel generator building (KM), the chilled water recirculation pumps in the control bay (KM), the residual heat removal service water (RHRSW) air release valves (KE), a pressure reducing valve (PCV 67-56) (VI), and the water regulator valves (TCV 67-62) on the control bay emergency condensing units (VI). The results indicated that certain flanged joints could be seismically unqualified because of flat faced flanges mated with raised face flanges. Where this condition existed, there was the possibility of flange failure during a seismic event. Also, there was a potential to have a flange failure during normal torquing operation.

Inspections were performed on the chilled water recirculation pumps in the control bay and the unit 3 diesel generator building and the 67-62 valve. The RHRSW air release valves were not inspected since the existing arrangement had been previously analyzed for failure during seismic events. These air release valves are currently scheduled for changeout in Fall 1985 and will not have a raised face flanged connection. FCV-67-56 ties to a nonseismic system and, therefore, does not require modification. The discharge joint on three of the four chilled water pumps located in the unit 3 diesel generator building were found to have a raised face flange. Both chilled water pumps in the control bay had a raised face flange on the pump discharge joint. Valve TCV 67-62 also had a raised face flange. All of the raised flanges were ground flat and retorqued according to design specified values.

This condition affected the seismic qualification of the cooling systems for the unit 1 and 2 control room and unit 3 shutdown board room coolers. Since the connecting lines to the pumps were seismically qualified, it is not expected that a gross failure of the flange would occur. Potential did exist for a sizeable leak which would jeopardize the capability of these systems to provide vital cooling to the effected areas and equipment during seismic events if accompanied by an accident situation.

The root cause for this problem was failure of the design organization during original plant construction to properly specify flange types and flange material. Existing procedures which govern design activities are much more rigorous than those employed during construction; therefore, this type error is not likely to recur.

Responsible Plant Section - ED

Previous Events - BFRO-50-259/85025

TENNESSEE VALLEY AUTHORITY Browns Ferry Nuclear Plant P. O. Box 2000 Decatur, Alabama 35602

August 2, 1985

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

Dear Sir:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 1 -DOCKET NO. 50-259 - FACILITY OPERATING LICENSE DPR-33 - REPORTABLE OCCURRENCE REPORT BFR0-50-259/85031

The enclosed report provides details concerning seismically unqualified flanged joints. This report is submitted in accordance with 10 CFR 50.73(a)(2)(v).

Very truly yours,

TENNESSEE VALLEY AUTHORITY

Coberly.

Robert L. Lewis Acting Plant Manager Browns Ferry Nuclear Plant

Enclosures cc (Enclosures): Regional Administrator U. S. Nuclear Regulatory Commission Office of Inspection and Enforcement Region II 101 Marietta Street, Suite 2900 Atlanta, Georgia 30303

INPO Records Center Suite 1500 1100 Circle 75 Parkway Atlanta, Georgia 30339

NRC Resident Inspector, BFN

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