TENNESSEE VALLEY AUTHORITY

CHATTANOOGA. TENNESSEE 37401 5N 157B Lookout Place

2EP 23 1988

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

Gentlemen:

In the Matter of Tennessee Valley Authority Docket Nos. 50-259 50-260

50-296

BROWNS FERRY NUCLEAR PLANT (BFN) UNITS 1, 2, AND 3 - SAFETY SYSTEM FUNCTIONAL INSPECTION (SSFI) REPORT NO. BFA 88811

TVA is submitting the subject report as requested by G. E. Gears, TVA Project Manager, NRC Office of Special Projects.

SSFI Report No. BFA 88811 considers the emergency equipment cooling water (EECW) and the residual heat removal service water (RHRSW) to be functional. The inspection was a TVA managed task with joint participation by TVA and ERC International.

Currently, affected BFN organizations are preparing recommendations for each inspection observation. These recommendations and subsequent corrective actions should provide confidence in the functional readiness and restart of BFN.

The enclosures contain proprietary information and should be withheld from public disclosure as provided in 10 CFR 2.790. They are, therefore, deemed to be commercial or financial information with the meaning of 10 CFR 9.5(a)(4) and shall be subject to public disclosure only in accordance with the provisions of 10 CFR 9.12.

If you have any questions, please telephone Wayne Ivey at (205) 729-2071.

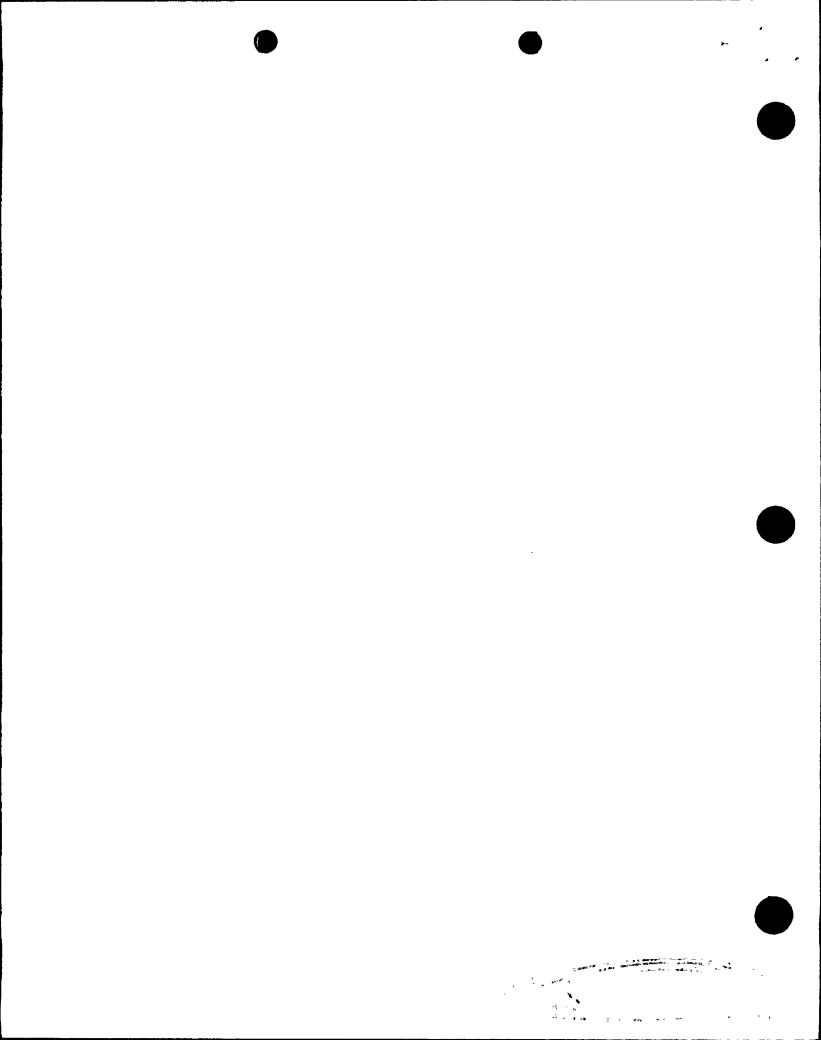
Very truly yours,

TENNESSEE VALLEY AUTHORITY

R. L. Gridley Manager Nuclear Licensing and Regulatory Affairs

Enclosures

cc: See page 2



SEP 23 1988

cc: (Enclosures)

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BROWNS	FERRY	SSFI		CTION	OBSERVATIONS
		S	Urmeti	Y	

(7/28/88)

r. Pr		,	•		\$
1.	Mechani	cal Maintenance	OLD CAOR	new Caqr	OTHER
ŀ					• •
OBSE	IALI/NOILVA	•	•		
HCS-1	(67–32)	Nonperformance of preventive maintenance on equipment, Rev. 1	* *	880515	
WCS-2	•	Discrepancies in preventive maintenance for HOVs, Rev. O		880514	P
HCS-3		Weak housekeeping and maintenance practices. Rev. 1		880508	•
E HCS-4	- •	Failure analysis not adequate to determine root causes, Rev. O		880510	
HCS-S	(67-69)	Method for upgrading maintenance procedure may be too narrowly focused, Rev. 1			U/R
HCS-6	(23-64)	Control and documentation of postmaintenance testing is weak, Rev. 1		880509 -	
HCS-7	7 (23–72)	Upper torque limits for service water pumps mounting bolts., Rev. 1		. 880501	4
-		•			
11.	Mechanic	al_Design			
SHX-1	(67–31)	EECW may not be capable of providing required flows, Rev. 1		880505	
: SHK-2	2', (23-38)	Traveling screens could become inoperable affecting RHRSM flow, Rev. O			D/B P/L 2-1273
SHX-3	3 (23–37)	Safety related boundary valve not installed on U-3 heat exchanger, Rev. O	880419		•
SHX-4	(67-54)	Isolation valves: FCV-67-50 and 51 may not close on demand, Rev. 2	871058		
SHK-5	(67–53)	Inadequacies in design analyses and testing for EECHs, Rev. 1	. 870872		
SHX-6		RHR heat exchanger relief valve may not be adequately sized, Rev. O	•	880491 .	
SHX-7	(23-69)	Platforms.railings.and other equipment in the RHRSW pump rooms are not seismically anchored.Rev. O	•	880506	
HAP-1	(23-30)	Incorrect relief valve settings for system piping, Rev. 0		1 .	D/B P/L 2-1264
WAP-2		Design pressure limitations for EECH components can be exceeded, Rev. O		•	D/B P/L 2-1313
ł	·			•	
ј ш.	Electric	al Design .			
SFK-1	(67-59)	Adequacy of Q-list as a controlled document, Rev. 0	870018	*	4
SFK-2		D/G derating on high outside ambient temperature, Rev. 0	0,0010		•
SFK-3	•	Inadequate motor OL heater selection for MOVs, Rev. 1			PIR # BFN-EEB-8816
SFK-4		Lack of surveillance testing of motor thermal OL relays, Rev. 0		880516	
SFK-5		Weaknesses in dynamic load study for standby D/Gs, Rev. 0		-	PIR # BFN-EEB-8820
F SFK-6		Inadequacy of motor thermal OL calculation methodology, Rev. O	880447		PIR # BFN-EEB-8817
1	Tack more	entation and Controls	,		4
į IV.	Instrum	SUCCESSION CONTROLS	_		
BL-1	(67–58)	Logic diagrams are not under configuration control, Rev. 1	870657		
BL-2	(23–48)	Flow instruments are not qualified consistent with safety importance, Rev. 0	J. 3037		U/R
BL-3	(67-61)	Flow transmitters installed in a harsh environment; Rev. 0			PIR # BFN-EEB-8815
BL-4	(67-62)	Press switches for EECH strainer start not seismically qualified, Rev. 1	880099	y	
BL-5	(23-73)	Process instrumentation instructions do not provide for complete channel/loop	,	880511	
ř.	,-5/	calibration, Rev. O	•		

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	Attachment 1	Page 2		
:		OLD CAQR	NEW . CAOR	OTHER
Testing		,		
ATION/ITE	1			
(67-64) (67-63) (67-73) (23-68)	No test to verify remote indicating lights for 67-50, 51, and 53, Rev. 0 Inadequacies in the flow balance of the EECW system, Rev. 0	 870872	880472 880507 880472	••
Operatio	ons .			
(67–41) · 67–55) (23–62) (23–67)	Weakness in operating instruction OI-67, Rev. 0 Failure to follow requirements of PHI 8.1, Temporary Alterations, Rev. 0 Failure to identify number of sump pumps for LCO, Rev. 0 Failure to follow PHI 12.12, Conduct of Operations, Rev. 0		880420	COTS D/B P/L 2-0638 I
Нападеме	ent Systems	¥		

870657

880479

- Indicates plant agreement with CAQR, but number not yet issued.

Drawings are not; being updated, Rev. 0

(23-65) Heakness in plant valve identification labels, Rev. 0

(23-66) System status file is not being maintained current, Rev. 0

(67-71) Failure to notify operations personnel of D/G load study calculations, Rev. O

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D/B P/L - Indicates design baseline punchlist item.

U/R - Indicates observation still under review by plant.

I - Indicates area for improvement.

COTS - Indicates item corrected on the spot.

PIR - Problem Investigation Report

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RB-1

RB-2

RB-3

RB-4

VI.

JJB-1

JJB-2

JJB-3

JJB-4

VII.

JLT-1

JLT-2

JLT-3

JLT-4

(67-60)

OBSERVATION/ITEH