(AC Form 36) 9-83)	-			LIC	ENSEE EVE	NT RE	PORT	(LER)		ICLEAR REGUL	the state at the
ACILITY NA	ME (1)								DOCKET NUMBER	(2)	PAGE (SI
and the second second	Gul	f Nuclea	r Station	n - Unit	1	<u>.</u>			0 5 0 0	1014111	6 1 OF 0
TTLE (4)	mah 1.	Dine C		C + 11		- Mate	. Die	1			
The same in case of the local data in the	DATE (6)	and the second se	LER NUMBER	and the second design of the s	REPORT DA		r Pip	the second se	FACILITIES INVO	LVED (8)	
MONTH D	AYY	EAR YEAR	SEQUENTIAL		MONTH DAY	YEAR		FACILITY NA	MES	DOCKET NUM	BER(S)
										0 5 0	010111
0 9 0	1	1/0/	- alub	- 00	I.I.I.I.						A . A
	88	4 8 4	O 4 2	0 0	1 0 12 1 9	18 41	CFR &: /0	heck one or more	of the following) (1	0 15 10 1	010111
MODE	(9)		402(b)		20.406(c)			50.73(a)(2)(iv)		73.71(b)	
POWER 20.405(a)(1)(i)				50.36(c)(1) 50.73(e)			50.73(e)(2)(v)		73.71(e)		
(10)	010		406(a)(1)(ii) 406(a)(1)(iii,	-	50.36(c)(2) 50.73(a)(2)(i)		H	50.73(a)(2)(vii) 50.73(a)(2)(viii)(X OTHER	Specify in Abstract d in Text, NRC Form
			405(a)(1)(iv)		50.73(a)(2)(ii)		H	50.73(a)(2)(viii)(50000	
		20.	406(a)(1)(v)		50.73(s)(2)(iii)			60.73(a)(2)(x)		Volunta	ry Report
NAME				L	ICENSEE CONTAC	T FOR THIS	LER (12)			TELEPHONS N	MAER
the state									AREA CODE	I I I I I I I I I I I I I I I I I I I	
Ronal	d W.	Byrd/Li	censing E	Ingineer					6 10 1	41371	-12 1141
			COMPLETE	ONE LINE FOR	EACH COMPONEN	T FAILURE	DESCRIBE	D IN THIS REPOR	11 (13)		1
CAUSE SYS	STEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABL TO NPRDS	e .
B B	S	1 1 1 ^H	111				1		111		
	1	111	L L L	1. 1. 1				1.1.1	1	10.00	
			SUPPLEM	ENTAL REPORT	EXPECTED (14)				EXPECT	ED MON	TH DAY YEA
			SUBMISSION DAT		77 1.0				SUBMISS DATE (ION	
			pproximately fifteen		X NO						
	sup exc on dis wit the The	ports we hangers this hig charge v h void f origina	ger inspec ere found . An eval gh, vertion valve oper formations al design uration of i.	damaged luation cal leng ns prior s in the values	on pipin revealed th of pip to the p higher e may occur	that a that a be. Or ump st elevation	and fr a wate h a LO tart a lon pi imp st	om the F er hammer DP/LOCA s allowing ping. T carts in	uel Pool transien ignal, th a slight hus, load this sect	Cooling nt could ne SSW pu drain do ls higher tion of p	occur ump own r that pipe.
		8411090 PDR AD0 S	0223 841 DCK 0500	029 00416 PDR							

Attachment to AECM-84/0503

LICENSEE EVEN	T REPORT (ER) TEXT	CONTINUATION
---------------	------------	----------	--------------

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
		YEAR SEQUENTIAL REVISION NUMBER NUMBER		
Grand Gulf Nuclear Station - Unit 1	0 15 10 10 10 1 41 1 16	814 -0 1412 - 010	012 OF 0 12	

On September 8 and 10, 1984, a walkdown of the Standby Service Water System (SSW) piping revealed 12 damaged pipe supports on the "B" loop piping to and from the Fuel Pool Cooling heat exchangers. The pipe support damage included bent or binding strut paddles, and dislodged swivel bushings.

The pipe supports were reworked by September 14, 1984. Afterwards a simulated LOP/LOCA test was performed on the SSW system and two supports which were previously reworked were found damaged again. An evaluation revealed that a water hammer transient may have been experienced on this section of piping.

The 12 damaged supports were on vertical piping below values P42F200B and P42F2018, the supply and return lines from the Fuel Pool Cooling heat exchangers. Both values are at the 189 ft. elevation. On a LOP/LOCA signal, the SSW pump discharge values open prior to the pump start which allows for a drain down of the higher elevated piping to and from the heat exchanger creating voids. As a result, loadings higher than the original design values may be experienced when the pump starts.

The piping configuration of the "A" loop is such that this condition would not be experienced.

Valves F200B and F201B have remained closed since fuel load due to the restriction of Condition 2.C(28) of the GGNS Operating License. The vertical piping has now been temporarily isolated by installing blind flanges at the 159 ft. elevation. The control circuit for both "A" and "B" SSW pumps has also been modified to prevent opening the discharge and return valves prior to the pump start on a LOP/LOCA signal.

There were no significant safety consequences as a result of this event. The Fuel Pool Cooling System normally cools the pools by transferring spent fuel decay heat to the Component Cooling Water System in the heat exchangers. Operation of the heat exchangers using Standby Service Water as the backup cooling medium is currently prohibited by the Operating License. No other portion of the system was affected. MISSISSIPPI POWER & LIGHT COMPANY Helping Build Mississippi P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

October 29, 1984

NUCLEAR LICENSING & SAFETY DEPARTMENT

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

Gentlemen:

SUBJECT: Grand Gulf Nuclear Station Unit 1 Docket No. 50-416 License No. NPF-13 File: 0260/L-835.0 Voluntary Report - Inoperable Pipe Supports on Standby Service Water Piping LER 84-042-0 AECM-84/0503

Attached is Licensee Event Report (LER) 84-042-0 which is a final report.

Yours truly,

L. F. Dale Director

EBS/SHH:1m Attachment

cc: Mr. J. B. Richard (w/a)
Mr. R. B. McGehee (w/o)
Mr. N. S. Reynolds (w/o)
Mr. G. B. Taylor (w/o)

Mr. Richard C. DeYoung, Director (w/a) Office of Inspection & Enforcement U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Mr. J. P. O'Reilly, Regional Administrator (w/a) U.S. Nuclear Regulatory Commission Region II 101 Marietta St., N.W., Suite 2900 Atlanta, Georgia 30323