



GULF STATES UTILITIES COMPANY

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AREA CODE 409 838-6631

August 14, 1985
RBG-21859
File No. G9.5

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Denton:

River Bend Station-Unit 1
Docket No. 50-458

As requested by your Staff, enclosed are revisions to the Gulf States Utilities River Bend Station Environmental Qualification Document, Appendix B.1, System Component Evaluation Work (SCEW) sheet SRN 247491-3. These revisions support the justification for interim operation for two air operated valves (1DFR*A0V144 and 145) in the suppression pool pump-back system previously provided in GSU's August 13, 1985 letter.

Sincerely,

J. E. Booker

J. E. Booker
Manager-Engineering,
Nuclear Fuels & Licensing
River Bend Nuclear Group

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SRM 247491-3

REV 2-3

DATE

24-Apr-85

SHEET 1

RBS - ENVIRONMENTAL QUALIFICATION PROGRAM
SYSTEM COMPONENT EVALUATION MARK SHEET

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

EQUIPMENT DESCRIPTION	PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE		QUAL METHOD	MARGIN DEMO	REMARKS
				SPECIFIED	QUALIFIED			
EQUIP NO.: SEE SHEET 2	TOP. TIME	100 DAYS	>100 DAYS	3	2,4	AN+DATA	YES	NOTE-3
SYSTEM: SEE SHEET 2	TEMP (F)	172	140	1	2,4	TEST-IDENT	NA	NOTE-1
TYPE: (DESCRIPTION) SOLENOID VALVE	ABNORMAL	NA	NA	NA	NA	TEST-IDENT	NA	NOTE-2
	ACCIDENT	226	346	1	2	TEST-IDENT	YES	
	PRESS (PSIG)	---	---	---	---	---	---	
	NORMAL	-1/4 TO 1/2"	ATMOS	1	2	AN+DATA	NA	NOTE-1
MANUFACTURE: ABCD	ABNORMAL	NA	NA	NA	NA	TEST-IDENT	NA	
	ACCIDENT	2.1	110	1	2	TEST-IDENT	YES	
MODEL: SEE SHEET 2	IRH (Z)	---	---	---	---	---	---	
	NORMAL	90	100	1	2	TEST-IDENT	NA	NOTE-1
	ABNORMAL	NA	NA	NA	NA	TEST-IDENT	NA	
SAFETY FUNCTION: ---	ACCIDENT	100	100	1	2	TEST-IDENT	NA	
SEE NOTE 5	RADIATION:	---	---	---	---	---	---	
	NORM GAMMA	2.9E7 TID	2ES	1	2	TEST-IDENT	YES	
	ACT. GAMMA	---	---	---	---	---	---	
	NORM BETA	---	---	---	---	---	---	
	ACT. BETA	---	---	---	---	---	---	
	NEUTRON	---	---	---	---	---	---	
	ISPRAY	NA	NA	NA	NA	NA	NA	
	SUBMERGENCE	NA	NA	NA	NA	NA	NA	
ACCURACY --								
SPEC: NA								
DEMO: NA								
TIME NO.: SEE SHEET 2								
SUBMERGENCE:								
ISPRAY/FROTH:								
EQUIPMENT NOT SUBJECT TO								
SUBMERGENCE OR SPRAY/FROTH								
INCUBATION ACCEPTABILITY:								
ACCEPTABLE TO NUREG 0588, CAT 1								
WATIME/BIOMILL --								
REFERENCE: 4,5								
QUALIFIED LIFE --								
(YEARS): SEE SHEET 2								
REFERENCE: 4 (NOTE-4)								

DOCUMENT REFERENCE:

1. SPECIFICATION 247.491 REV.0 ADD.6 / EDCR P40.702A(FIGURE-3)
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, BDDF # 6247.491-163-007C
3. POST-ACCIDENT OPERABILITY PERIOD: SEE PAOP DOCUMENT NO. 245.600C REV.0
4. CALCULATION NO. 12210-EDS-42
5. ASCC INSTALLATION AND MAINTENANCE INSTRUCTIONS FORM NO. V-3970

AN

SRN 247491-3
REV 2-3
SHEET NO. 2
DATE 8/11/85-8/14/85

RBS-ENVIRONMENTAL QUALIFICATION PROGRAM
RBS-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST
SORTED BY SRN, SPEC, THEN SYSTEM - HARSH ENVIRONMENT ONLY

MODEL/CATALOG NO.	ENV. ZONE	QUAL. LIFE	OPTIME
1E12-SOVF051A	SUMIRG		OC

SRN 247491-3

SPEC 247.491

E12 RESTORAL HEAT REMOVAL

1E12-SOVF051A

1E12-SOVF051B

1E12-SOVF065A

1E12-SOVF065B

SHP SERVICE WATER

1SHP-SOWS1A

1SHP-SOWS1B

IDFR # SOV 144

IDFR # SOV 145

AB-114-3	40 YR	N/R
AB-114-3	40 YR	N/R
AB-070-5	40 YR	N/R
AB-070-5	40 YR	N/R
AB-141-2	2.2 YR	1000 A
AB-141-3	2.2 YR	1000 A
AB-070-8	40 YR	1000 A
AB-070-7	40 YR	1000 A

NOTE-5

NOTE-5

NOTE-5

NOTE-5

NOTE-5

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NOTE-5

NOTE-5

X X

X X

RBS - ENVIRONMENTAL QUALIFICATION PROGRAM

SRN 247491-3

REV ①-1

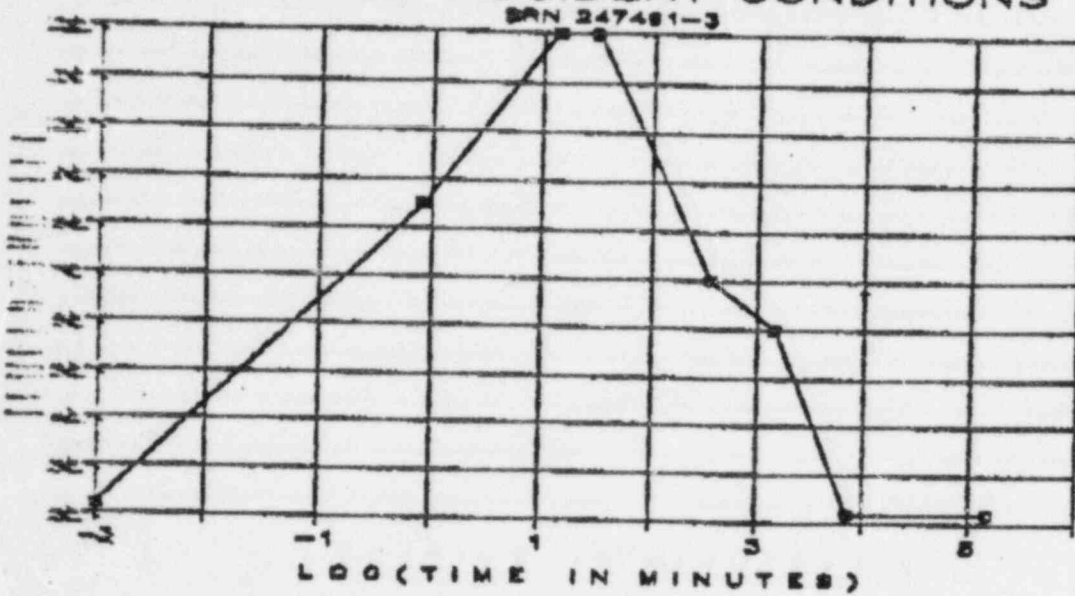
SHEET NO. 3

DATE ①1/29/84-8/4/85

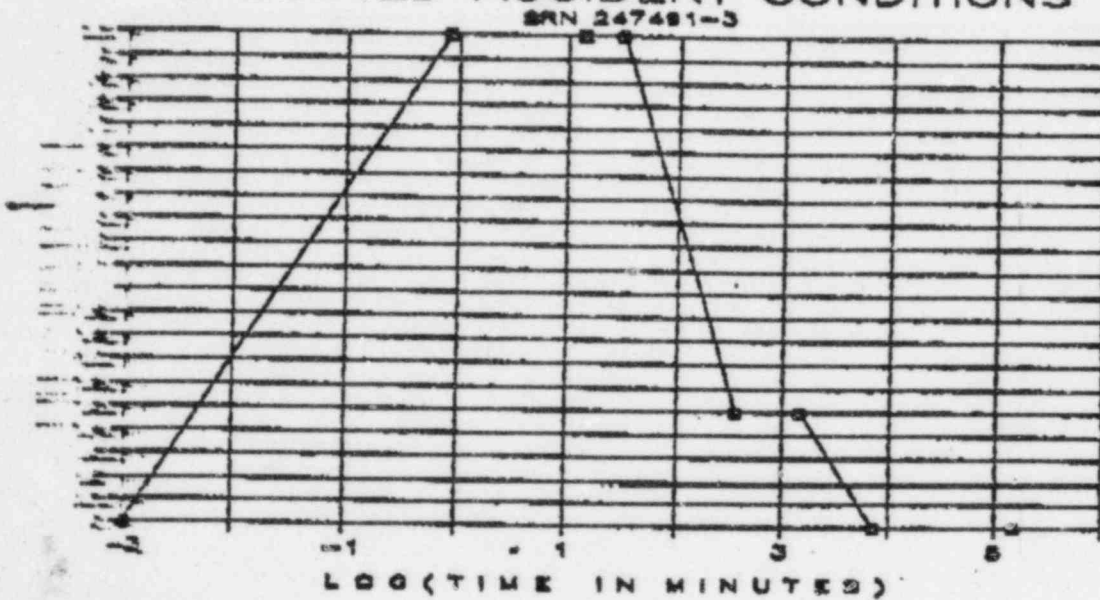
NOTES

1. For complete environmental conditions, see ^{documents}~~conditions~~ referenced. X
2. For qualified life, see Reference 4. In the qualified life calculation, the temperature rise ^{coil}~~by the actuated coil~~ is considered. X
3. Operability time extended from 30 to 100 days plus margin by the Arrhenius calculation. See Reference 4.
4. The qualified life of this component can be extended to 40 years by periodic maintenance or replacement. See References 2 and 4.
5. Safety Functions - Control steam pressure in heat exchanger; control heat exchange water level; ~~and~~ standby service water isolation valve for penetration valve leakage; control compressor; and isolate auxiliary building floor drains. X

SPECIFIED ACCIDENT CONDITIONS

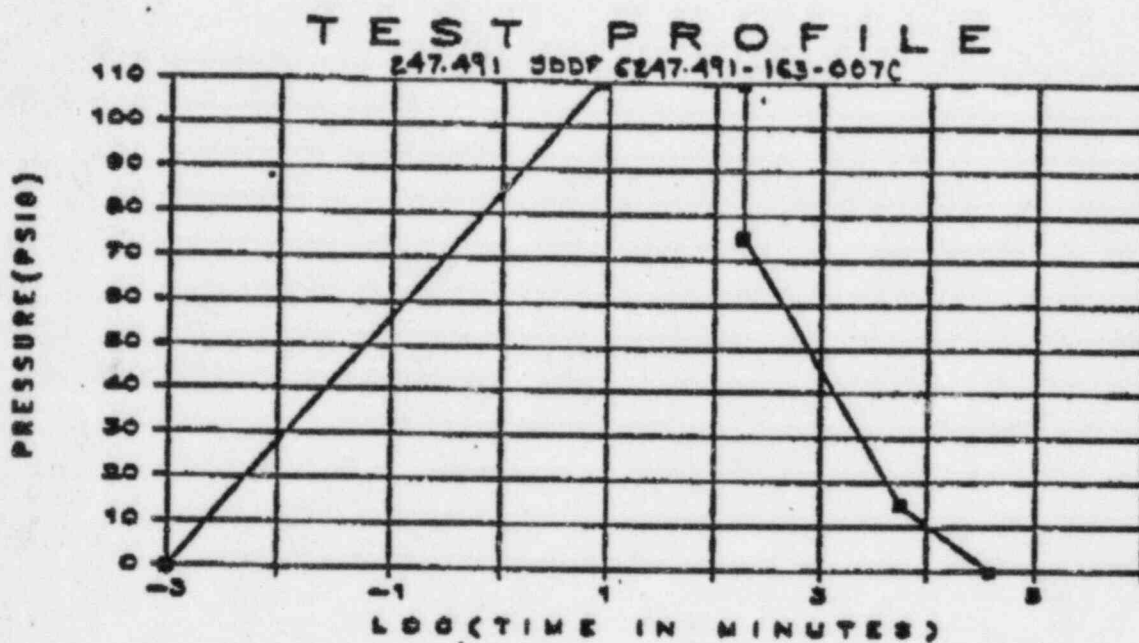
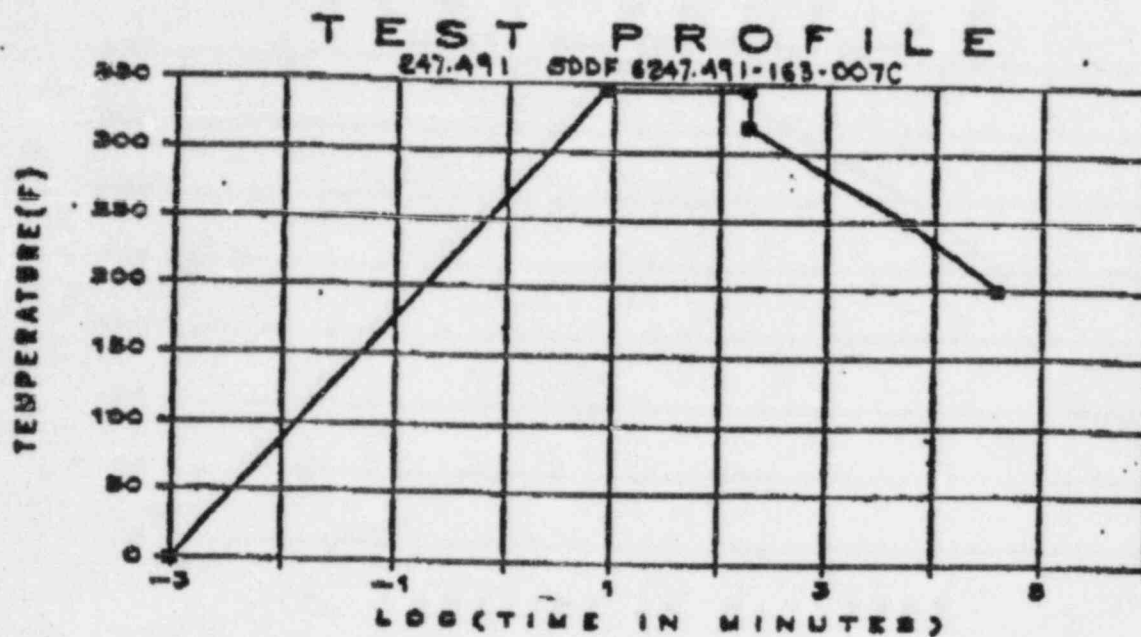


SPECIFIED ACCIDENT CONDITIONS



ACCIDENT CONDITIONS FOR SPECIFICATION: 211.161-4

TEMPERATURE	50SEC	800SEC	1800SEC	6HRS	1DAY	5DAYS	100DAYS
0	-0.08	1.12	1.48	2.56	3.16	3.86	5.16
122	185	220	220	170	160	122	122
0.001	0.8333	13.333	30	360	1440	7200	144000
TEMPERATURE	50SEC	800SEC	1800SEC	6HRS	1DAY	5DAYS	100DAYS
0	-0.08	1.12	1.48	2.56	3.16	3.86	5.16
0	2.1	2.1	2.1	0.5	0.5	0	0
0.001	0.8333	13.333	30	360	1440	7200	144000



TEST PROFILE DATA FOR 247.491 SDDF 6247.491-163-007C
SOLENOID VALVES

TIME	0	Bain	3hr	3hr	4days	26days
LOG (MINUTES)	-3.00	0.90	2.26	2.26	3.76	4.57
TEMP (F)	0	346	346	320	250	200
PRES (PSIG)	0	110	110	75	15	0