

SITE PROBLEM REPORT

BABCOCK & WILCOX

CUSTOMER Oconee III		CONTRACT NO. NSS-09		SPR NO. 107	REV. NO.
VENDOR Dresser		P.O. NO. 20158LS	TASK NO. 28	GROUP NO. 41	SEQ. NO. 003
SITE ENGINEER F.G. Grisbaum			REQ'D RESOL. DATE	REQ'D COMP. DATE	
				For info only	
TITLE ELECTRONATIC RELIEF VALVE MALFUNCTION					
DESCRIPTION OF PROBLEM On Friday, June 13th, Duke reduced power to 12% FP in preparation to cold shutdown for RCP seal replacement. During the transition from turbine to turbine bypass the primary system experienced a pressure transient to 2267 psig. The power relief valve actuated at 2257 psig and failed to close. This caused the Quench Tank rupture disc to rupture. Failure to promptly close the power relief isolation valve caused violations of the fuel compression curve, cooldown rates and RC pumps NPSH curve. Inspection of the power relief valve after shutdown indicated that the pilot valve lever had remained in the ported position preventing the main valve from reseating. Restraint of the lever was caused by corrosion of the lever pin, lever hinge and solenoid bracket.					
STATUS - ACTION TO DATE INCLUDING PERSONS CONTACTED JT Janis, NSD, Lynchburg, KR Ellison, NSD, Lynchburg, advised of problem. Valve has been repaired (6/20/75) and reinstalled. Repair was effected by increasing the clearance for the lever pin in both the solenoid bracket and the lever hinge bearing points. Valve pilot disc and seat were refurbished to achieve tight seating.					
FURTHER ACTION RECOMMENDED BY SITE PERSONNEL Sites be advised to conduct periodic inspection/operation of valve to insure operability. When plant shuts down, perform manual/visual checks for freedom of motions.					
RESOLUTION See further action.			6/27/75		
SITE INSTRUCTION ISSUED ADVISING INSPECTIONS TO PREVENT PROBLEM FROM OCCURRING AT OTHER SITES. <i>W</i>					
RESOLUTION	APPROVED BY		SIGNATURE		DATE
	N.S. SUPPORT ENGINEER		<i>[Signature]</i>		7/21/75
	TASK ENGINEER N.S. UNIT MANAGER		<i>[Signature]</i>		11/11/75
	PLT. START-UP MGR./SERV. & MAINT. MGR.		<i>[Signature]</i>		11/15/75
	PROJECT MANAGER/ CONTRACT ENGINEER		<i>C. R. Creary</i>		7-22-75
COST CATEGORY <input type="checkbox"/> NORM <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> G <input type="checkbox"/> L <input type="checkbox"/> VENDOR CLAIM					
AUTH. CHARGE NO. <input type="checkbox"/> FIELD CHANGE REQ <input type="checkbox"/> FC NO.					
SITE COMPLETION REPORT F.C. NO 113 <i>closed 12/1/76</i> <i>W</i>					
COMPLETION	DEVIATIONS <input type="checkbox"/> NONE <input type="checkbox"/> SEE SPR REV. NO. _____				
	DATE COMPLETED <i>12/1/76</i>		SIGNED BY <i>[Signature]</i>		
	S.O.M. CONST. REP. APPROVAL <i>[Signature]</i>		DATE <i>11-12-74</i>		

INSTRUCTIONS FOR PDS-21091 - SITE PROBLEM REPORT

Initiated by B&W Construction or NPGD Nuclear Service

- (1) Originator - Fill in: Customer; Contract Number; Vendor; Purchase Order Number; Task Number; Group Number; Sequence Number; Name; Title; Description of Problem; Status; Further Action Recommended by Site Personnel; Originator Signature and Date; Vendor Claim (NPGD only - if applicable)
- (2) Senior B&W Construction - Fill in: SPR Number; Revision Number; Req'd. Resol. Date; Req'd. Comp. Date; Approval Signature; Co. Site Representative or Site Operations Manager Date.
- (3) Nuclear Service Support Engineer - Fill in: Cost Category; Authorized Charge Number.
- (4) Nuclear Service Unit Manager - Fill in: Resolution; FC Req. and FC Number; and/or Task Engineer Signature and Date.
- (5) Plant Start-up Section - Approve Resolution; Signature; Date. Manager or Service and Maintenance Unit Manager
- (6) Project Manager or - Verify Charge Number; Approve Resolution; Signature and Contract Engineer Date.
- (7) Senior B&W Construction - Implement resolution; upon completion, fill in: Co. Site Representative Completion Report; Date Completed and Signature. or Field Engineer
- (8) Site Operations Manager - Approve completion; sign. or Senior B&W Construction Co. Site Representative

2024 0246

LONGHAND MEMORANDUM

THE BABCOCK & WILCOX COMPANY

TO

FROM

CUST.

FILE NO. OR REF.

SUBJ.

DATE

1) Need info on Jan 13 1975 Ozone transient

73-789-7195

SPR

75-7 Abnormal occurrence to the NRC

Boron built up or PORV caused it to stick open

2024 0242

NSS- 9
SIR 107

TITLE ELECTROMATIC RLF VLV MALFUNC.

RELATED SPRs _____

This SPR has been reviewed by Task Engineering Groups and is applicable to
NCS- 00 . The following
is the status and/or resolution of this SPR on other contracts.

REMARKS

The occurrence on this SPR is possibly generic to other
plants. It has been taken care of by Ken Wendling
writing an SIR to all sites to maintain an inspection of
these moving parts. The writing of this SIR should
satisfy the generic concerns of this problem. Done 7/15/75

RFP

7/16/75

NSS- _____

24 0243

③

SITE PROBLEM
REPORT TRANSMITTAL

**** CLEARED ****

TO: _____ For Information
Central Engineering Files
C. C. Plunkett - Contract Admin.
S. H. Klein - Quality Assurance
R. G. Bunley - Task Engineer
SA Crecy - Project Manager

FILE: 12M2

CONTRACT NO: 620-00 09
SPR 107
TITLE Electromatic
Relief Valve Mal-
Function
DATE: 11-21-75

The attached, cleared SPR is submitted for your information.

TO: _____ E. L. Logan - FLORIDA _____
_____ L. C. Rogers - MET. ED. _____
_____ R. J. Baker - TOLEDO _____
_____ B. L. Day - Intl. Support _____
_____ P. E. Perrone - OFR _____

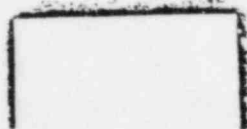
Attached is one copy of Site Problem Report No. 107 which was processed on Contract 620-00 09. Future contracts have been reviewed for the potential of a similar problem. This problem ~~is~~ is not considered applicable to other contracts _____.

REMARKS: _____

cc: G. M. Jacks - Plant Integration
This SPR has been reviewed IAW NPG-1707-01

Miles Vandike
NUCLEAR SERVICE SUPPORT ENGINEER

CLEARED



224 0244