

THE BABCOCK & WILCOX COMPANY  
POWER GENERATION GROUP

To	Distribution	
From	G. K. Wandling, Technical Support (2451)	505 543.3
Cust.	DPC, Met Ed, FPC, AP&L, SMUD, TECO	File No. or Ref. NSS-9 SPR-107
Subj.	Electromatic Relief Valve Malfunction	Date July 15, 1975

This letter is for use only on subject only.

Distribution

L. C. Rogers  
E. L. Logan  
J. A. Bailey  
G. E. Mitchell  
R. J. Baker  
C. A. Crecy

Reference: 620-0009 SPR-107 "Electromatic Relief Valve Malfunction" -  
Attached

The attached SPR documents a problem which resulted from corrosion of the lever pin, lever hinge and solenoid bracket of the subject valve.

Please advise your customer to conduct periodic inspections for presence of corrosion products and to perform manual/visual checks for freedom of motion during plant shutdowns.

C. A. Crecy is requested to verify with Duke that they intend to adopt a surveillance inspection program on this valve for all three units.

GKW/cs

cc: J. T. Janis  
K. M. Ellison  
R. A. Govers  
J. D. Phinney  
F. G. Grisbaum  
K. G. Burnley  
J. P. Kennedy

05/30 02/10 1-1/2  
SITE INSTRUCTION NO. 07/24, 11/21, 11/22  
DISTRIBUTION ABOVE  
RESPONSIBILITY FROM NSS-3, 4, 5, 7, 8, 9, 10  
APPROVED *[Signature]*

POOR ORIGINAL

8002110 701 P

SITE PROBLEM REPORT

DABCOCK & 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
SITE ENGINEER F.G.Grisbaum	REQ'D RESOL. DATE	REQ'D COMP. DATE	SEQ. NO. 003

TITLE ELECTROMATIC RELEIF 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 Ellisen, 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.

<i>F.G. Grisbaum</i>	DATE 6-27-75	<i>[Signature]</i>	6/27/75
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RESOLUTION See further action.

APPROVED BY	SIGNATURE	DATE
N.S. SUPPORT ENGINEER		
TASK ENGINEER /N.S.- UNIT MANAGER		
PLX. START-UP MGR/SCHV. & MAINT. MGR.		
PROJECT MANAGER / CONTRACT ENGINEER		

COST CATEGORY  NORM  C  D  G  I  VENDOR CLAIM

AUTH. CHANGE NO.  FIELD CHANGE REQ  FC NO.

SITE COMPLETION REPORT

POOR ORIGINAL

DEVIATIONS <input type="checkbox"/> NONE <input type="checkbox"/> SEE SPR REV. NO.
DATE COMPLETED   SIGNED BY
S. O. H. / COAST. REP. APPROVAL   DATE