GP4 2513

CONFIDENTIAL
COUNSEL ONLY

NSS-4 SPA-148

2024 0254

50-270

*FDS-27091-2 (9-73).

SITE PROBLEM REPORT

BABCOCK & WILCOX

CUSTOMER Duke Power Company	CONTRACT NO 620-0004	SPR NO. 148	REV. NO. CO
VENDOR	P.O. NO.	TASK NO. 25	GROUP NO. 41 SEQ. NO. 03
SITE ENGINEER E.L. Logan	REQ'D. RESOL. DATE	REQ'D. COMP. DATE	

TITLE ELECT. REF. 4. VLV. OPERATIONAL FAILURE

DESCRIPTION OF PROBLEM When RC-4 (RC-V2) was cycled at RCS conditions of 2155 psig and 545° F, RCS pressure decreased to 2125 psig and the Quench tank pressure increased to ≈ 8-10 psig indicating that RC-66 (RC-RV3) electromatic relief valve was not closing. Electrical indications were that valve was closed-Investigation revealed some steam coming from exhaust port on electromatic pilot valve. It appears that pilot valve is not seating properly.

STATUS - ACTION TO DATE INCLUDING PERSONS CONTACTED

Discussed with Roger Pittman and Bob Burnley
Duke Maintenance planning to disassemble pilot valve for inspection.

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL

None ~~at present. Await results of Duke investigation.~~
DUKE MAINTENANCE LAPPED PILOT VALVE SEAT (11-8-73) AND SUCCEEDED IN STOPPING STEAM FLOW FROM EXHAUST PORT. RC-4 (RC-V2) WILL BE CYCLED EVERY 2 HRS DURING HEAT-UP TO ASSURE PROPER OPERATION OF RC-4 & RC-66.

SIGNATURE E.L. Logan	DATE 11/9/73	SIGNATURE R.D. Bynum	DATE 11/9/73

RESOLUTION

RESOLUTION

APPROVED BY	SIGNATURE	DATE
N S SUPPORT ENGINEER	R J Pittman	11/13/73
TASK ENGINEER		
PROJECT MANAGER		

COST CATEGORY ☐ NORM ☐ C ☐ O ☐ G ☐ L ☐ VENDOR CLAIM

AUTH CHARGE NO ☐ FIELD CHANGE REQ FC NO

COMPLETION

SITE COMPLETION REPORT
RC 66 operation has been satisfactory lapping pilot

☐ RECOMMENDED STDS. CHANGE

FINAL DISTRIBUTION
PROJECT MANAGER
S O M PILOT REP
CA DOC. FILE
CENT. FNGR
FILE (2)

DEVIATIONS ☐ NONE ☐ SEE SPR REV NO ____

DATE COMPLETED SIGNED BY

S O M ~~CONSTR~~ REP. APPROVAL E.M. Thomas DATE 12/11/73

1024 0258

INSTRUCTIONS FOR PDS-21091 - SITE PROBLEM REPORT

Initiated by NPG 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 (if applicable).

(2) Site Operations Manager - Fill in: SPR Number; Revision Number; Req'd. Resol. Date; Req'd. Comp. Date; Approval Signature; Date.

(3) Nuclear Service Support Engineer - Fill in: Cost Category; Authorized Charge Number.

(4) Task Engineer - Fill in: Resolution; Recommended Std.'s Change*; (if applicable, FC Req. and FC Number); Signature and Date.

*If recommended standard's change, transmit a copy to cognizant Standard Task Engineer to resolve with Standard Plant Manager.

(5) Field Engineer - Implement resolution; upon completion, fill in: Completion Report; Date Completed and Signature.

NOTE: If necessary to deviate from the approved SPR, note deviation and submit revised SPR to the Site Operations Manager.

(6) Site Operations Manager - Approve completion; sign.

Initiated by B&W Construction Company

(1) Originator - (Same as (1) above)

(2) Construction Co. Site Representative - (Same as (2) above)

(3) Project Manager - (Same as (3) above)

(4) Task Engineer - (Same as (4) above)

(5) Construction Co. Site Representative - (Same as (5) and (6) above)

File NSS- 4

12M2-SPR- 148

TRANSMITTAL SLIP

FIELD OPERATIONS SITE PROBLEM REPORT

To ______________________ For Action

CONTRACT 620-00 - 04

SPR 148

TITLE Electromatic Relief Valve Operational Failure

DATE 11/13/73

To R. J. McConnell (2) For Information

J. N Kaelin

J. P. Kennedy

J. D. Phinney

K Suhrke

Date Reply to Be Submitted To Nuclear Service Support Engineer

Action Requested: THIS SPR is submitted for information and no further action is required at present. RC-V2 (electromatic shutoff) will be cycled during plant heatup. At this time if the electromatic operates satisfactory (does not inadvertently open) this SPR should be cleared

R. P. Pittman

Nuclear Service Support Engineer

MANHOUR LIMITS ______

COST LIMITS ______

CHARGE No: ______

APPROVED: R. V. [illegible]

Project Manager

cc: G. E. Kulynych
C. C. Plunkett - Contract Admin.
Central Engineering Files
E. V. DeCarli - Quality Assurance
R C Buckley [illegible]

2024 0260

PDS-21091-2 (9-73)

BABCOCK & WILCOX

SITE PROBLEM REPORT

CUSTOMER Duke Power Company | CONTRACT NO. [illegible] | SPR NO. 148 | REV NO. C.C.

VENDOR | P.O. NO. | TASK NO 25 | GROUP NO. A1 | SEQ NO. 03

SITE ENGINEER E.L. Logan | REQ'D. RESOL. DATE | REQ'D. COMP. DATE

TITLE ELECT. RELF. VLV. OPERATIONAL FAILURE

DESCRIPTION OF PROBLEM When RC-4 (RC-V2) was cycled at RCS conditions of 2155 psig and 545° F, PCS pressure decreased to 2125 psig and the Quench tank pressure increased to ~ 8-10 psig indicating that RC-66 (RC-RV3) electromatic relief valve was not closing. Electrical indications were that valve was closed-Investigation revealed some steam coming from exhaust port on electromatic pilot valve. It appears that pilot valve is not seating properly.

STATUS - ACTION TO DATE INCLUDING PERSONS CONTACTED

Discussed with Roger Pittman and Bob Burnley
Duke Maintenance planning to disassemble pilot valve for inspection.

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL

None ~~at present (wait results of Duke investigation)~~.
DUKE MAINTENANCE LAPPED PILOT VALVE SEAT (11-8-73) AND SUCCEEDED IN STOPPING STEAM FLOW FROM EXHAUST PORT. RC-4 (RC-V2) WILL BE CYCLED EVERY 50°F DURING HEATUP TO ASSURE PROPER OPERATION OF RC-4 & RC-66.

E.L. Logan 11/9/73 | [illegible] | 11/9/73

RESOLUTION

APPROVED BY	SIGNATURE	DATE
N.S. SUPPORT ENGINEER	R.J. Pittman	11/13/73
TASK ENGINEER		
PROJECT MANAGER		

COST CATEGORY ☐ NORM ☐ C ☐ O ☐ G ☐ L ☐ VENDOR CLAIM

AUTH CHARGE NO | ☐ FIELD CHANGE REQ | FC NO

COMPLETION

SITE COMPLETION REPORT

☐ RECOMMENDED STOS CHANGE

FINAL DISTRIBUTION

DEVIATIONS ☐ NONE ☐ SEE SPR REV NO ____

DATE COMPLETED | SIGNED BY

S O M CONSTR REP APPROVAL | DATE

BABCOCK & WILCOX

ZRC-4 OPERATIONAL LOG

DURING HEAT-UP OF UNIT II
B&W DESIGNATION RC-V2
SPR-110 FC-126

B&W TELECOPIER
Date 11/7/73 No.
To: [illegible]
From: [illegible]
Subject: [illegible]

DATE	TIME	RCS PRESS PSIG	PRZR TEMP °F	RC-4 OPERATION	REMARKS
11/2/73	0305		≈ 400	CLOSED	
"	0441		≈ 400	OPENED	
11-4-73	0830	700	500	OPEN & CLOSE	OPERATION SATISFACTORY
"	1401	1000	545	OPEN & CLOSE	OPERATION SATISFACTORY
"	1550	1500	595	OPEN & CLOSE	OPERATION SATISFACTORY
"	2140	2155	645	OPENED - CLOSED COMMAND	LOG ENTRY INDICATES VALVE CLOSED. HOWEVER, IT WOULD APPEAR THAT LOG ENTRY WAS MADE WHEN VALVE STARTED TO CLOSE & WAS NOT VERIFIED CLOSED. SEE NEXT ENTRY.
11-4-73	2230	2155	645		OPERATOR NOTICED RC-4 WAS NOT CLOSED. VALVE WAS COMMANDED OPEN. VALVE INDICATED OPEN. VALVE GIVEN A CLOSED COMMAND, NO CLOSING ACTION. NOTE: JIM PHILLIPS, DUKE ELECTRICIAN, CALLED IN TO FIX VALVE. BY-PASSED CLOSE TORQUE SWITCH UNTIL VALVE STARTED CLOSING. VALVE CLOSED OKAY.
11-5-73	1000	~~[illegible] TORQUE SWITCH SETTING OF 1 IS TOO LOW TO [illegible] TO START CLOSING. INVESTIGATING POSSIBILITY OF USING LIMIT SWITCH TO OVERRIDE TORQUE SWITCH TO ABOUT 80% IN CLOSE DIRECTION.~~			
11-6-73	1100	2155	645 ~~645~~		Insured - ~~SET~~ TORQUE SWITCHES were set at ~~TO~~ 2. HAD OPENED HANDWHEEL ABOUT 3/4 TURNS. CYCLED RC-4 OPEN THEN CLOSED. APPARENTLY NORMAL OPERATION. RC-66 EVIDENTLY OPEN OR LEAKING. RC Press. decreased to 2185 psig. QUENCH TANK TO 12 psig. " LEVEL ≈ 120 INCHES.

0262

NSS- 4
SPR 148

TITLE Electrical Relief Valve lifted Inadvertantly

RELATED SPRs

This SPR has been reviewed by Task Engineering Groups and is applicable to NSS- 3 - Task 14. The following is the status and/or resolution of this SPR on other contracts.

Verify - RLP 10/29/70

REMARKS Otto. Putzgruber

This problem is being investigated by Otto Putzgruber. Ltr sent to site on hazard of blowing Rupture Disk. Should have reflective device.

ACTION COMPLETE
ON ALL CONTRACTS

NSS- 4&9
Ltr to site & P.M.

Continued

NSS 4
SPR 148

NSS- 5&6 - Ltr to P.M & JDP.
OK - inclosed in concrete Room.

NCC- 7 - Ltr to PM.
PM Ltr to Cust.

NSS- 8 - Ltr to Cust.
J.N. Hailen says not applicable
Sandy H Clark EXTD NOV 1974

NCC- 11 - Ltr to PM & JPK

NSS- 12&13 - Ltr to P.M

ACTION COMPLETE
ON ALL CONTRACTS

NCC- 14 - Ltr. to P.M.

All sites are aware of the problem. It will be carried any longer as generic since everyone is aware & its up to the customer to take action (precaution)

2024 0256

TRANSMITTAL SLIP

FIELD OPERATIONS SITE PROBLEM REPORT

*** CLEARED ***

FILE: 12M2

To R. J. McConnell (2) For Information — Contract 620-00 - 04

SPR 148

G. E. Kulynych - Sr. Project Manager

TITLE ELEC. REL F. Valve Operational Failure

C. C. Plunkett - Contract Admin.

Central Engineering Files

E. V. DeCarli - Quality Assurance

DATE 12-18-73

The attached, cleared SPR is submitted for your information.

TO:

____ J. N. Kaelin-Arkansas ____

____ J. P. Kennedy-SMUD ____

____ K. E. Suhrke ____

____ ~~H. J. Worsham~~ ____

____ J. D. Phinney-Met Ed ____

Attached is one copy of Site Problem Report No. 145 which has been processed on Contract 620-00 - 04. Your contract or contracts may have the potential for a similar problem. The Site Problem Report is being forwarded for your information and use to prevent problems from recurring on following contracts. A more complete file on the problem is available in the Nuclear Service area.

REMARKS: _____

cc: RG. BURNLEY - NSE

R. J. Pittman

NUCLEAR SERVICE SUPPORT ENGINEER