

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL

50-261

REC: 0
NRC

ORG: BANKS H R
CAROLINA PWR & LIGHT

DOCDATE: 01/20/78
DATE RCVD: 01/24/78

DOCTYPE: LETTER NOTARIZED: NO
SUBJECT:

COPIES RECEIVED
LTR 0 ENCL 1

LICENSEE EVENT REPT. NO. 50-261/77-34 CONCERNING THE STEAM DRIVEN AUXILIARY
FEEDWATER PUMP TRIPPING OFF LINE WHILE BEING TEST RUN WHILE THE "B" AUXILIARY
FEEDWATER PUMP & VALVE WERE OUT OF SERVICE.

PLANT NAME: H B ROBINSON - UNIT 2

REVIEWER INITIAL: XRL
DISTRIBUTOR INITIAL:

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

INCIDENT REPORTS
(DISTRIBUTION CODE A002)

FOR ACTION: BRANCH CHIEF REID**W/4 ENCL

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REG FILE**W/ENCL

~~I & E**W/2 ENCL~~

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TEDESCO**W/ENCL

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ROSA**W/ENCL

EXTERNAL:

LPDR/S

HARTSVILLE, SC**W/ENCL

TIC**W/ENCL

NSIC**W/ENCL

ACRS CAT B**W/16 ENCL

COPIES NOT SUBMITTED PER
REGULATORY GUIDE 10.1

DISTRIBUTION: LTR 45 ENCL 45
SIZE: 1P+1P+1P

CONTROL NBR: 780250129

***** THE END *****

[PLEASE PRINT ALL REQUIRED INFORMATION]

EVENT DESCRIPTION

CAUSE DESCRIPTION

PERSONNEL EXPOSURES

PERSONNEL INJURIES

OFFSITE CONSEQUENCES

LOSS OR DAMAGE TO FACILITY

PUBLICITY

ADDITIONAL FACTORS

520 881-667

Supplemental Information
for
Reportable Occurrence 77-34

1. Report No.: 50-261/77-34
- 2a. Report Date: January 13, 1978
- 2b. Occurrence Date: December 22, 1977
3. Facility: H. B. Robinson Unit No. 2, Hartsville, South Carolina 29550
4. Identification of Occurrence: At 0904 hours on December 22, 1977 while the plant was at 100% power, the Steam Driven Auxiliary Feedwater Pump was started for a test run at which time the pump tripped off the line. "B" Auxiliary Feedwater Pump and valve V2-16A were out of service for repairs at this time (HBR2 RO 77-33). This constitutes a reportable occurrence per Technical Specification Paragraph 6.9.2.b.2.
5. Conditions Prior to Occurrence: The plant was at 100% power.
6. Description of Occurrence: With valve V2-16A out of service for repairs (HBR RO 77-33), at 0904 hours, "B" Auxiliary Feedwater Pump failed to start for a test run due to a defective fuse holder in its control circuit and, therefore, was declared out of service. The Steam Driven Auxiliary Feedwater Pump then tripped off while being started and was declared out of service at 0904 hours also. The steam pump casing was found to be excessively hot. The casing was vented and steam issued from the vent. Venting was continued until water issued from the vent. The vent was then closed and the pump restarted. After a satisfactory test run, the steam driven pump was declared back in service at 0932 hours the same day.
7. Designation of Apparent Cause of Occurrence: The cause of this occurrence was valve V2-14C, discharge from the pump to "C" Steam Generator, which had not closed tightly. This allowed hot water to backflow through the pump housing, thus creating excessive temperature within the housing and subsequent pump binding. This problem is attributed to inadequate valve stem lubrication which did not permit the valve to close tightly.
8. Analysis of Occurrence: Valve V2-14C was found not to be fully closed. The apparent cause was a sticking valve stem. The stem was lubricated and the valve cycled several times to insure proper closing.

"B" pump's failure to start was caused by a defective fuse holder not making contact with the fuses.
9. Corrective Action: The stem on valve V2-14C was lubricated and the valve cycled to verify proper operation.

Lubrication procedures will be updated to specifically include periodic lubrication of V2-14A, B, and C valve stems by February 28, 1978.

Supplemental Information
for
Reportable Occurrence 77-34

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9. (Continued)

"B" pump fuse holder was replaced. "B" pump was tested and returned to service at 1024 hours the same day. Quality Assurance will conduct an inspection of fuse holders on other safety related pumps to ensure similar, potential problems of this type do not exist. This inspection and any additional corrective action derived therefrom should be complete by March 31, 1978. Records of this inspection and any subsequent corrective action will be available on site for review.

10. Failure Data: No previous occurrence of this nature has been recorded at the plant.

RECEIVED DOCUMENT
CONTROL DESK

1978 JAN 24 AM 11 42

U.S. NRC
DISTRIBUTION SERVICES
BRANCH