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CONTROL NO: 4884

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Carolina Power & Light Co. Raleigh, N. C.								·	
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Carolina Power & Light Company

May 28, 1974

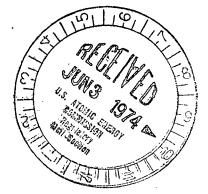
File: NG-3513 & NG-3514

Serial: NG-74-652

Mr. John F. O'Leary, DirectorDirectorate of LicensingOffice of RegulationU. S. Atomic Energy CommissionWashington, D. C. 20545

Mr. Norman C. Moseley, Director Directorate of Regulatory Operations U. S. Atomic Energy Commission Region II, Suite 818 230 Peachtree Street, N.W. Atlanta, Georgia 30303

50-261



Dear Sirs:

H. B. ROBINSON UNIT NO. 2 LICENSE DPR-23 UNUSUAL EVENT - FAILURE TO CLOSE OF A TURBINE STOP VALVE

In accordance with Section 6.6.2g of the Technical Specifications, the attached unusual event report concerning failure of a turbine stop valve to close completely during plant shutdown on May 6, 1974, at the H. B. Robinson Unit No. 2 Plant is submitted for your information. This report fulfills the requirements for a written report within thirty days of an unusual event.

Yours very truly, E. E. Utley Vice-President Bulk Power Supply

DBW:mvp Attachment

- cc: Messrs. N. B. Bessac
 - B. J. Furr
 - W. E. Graham
 - D. V. Menscer
 - D. B. Waters
 - R. A. Watson



336 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

4884

UNUSUAL EVENT

1. Event Date: May 6, 1974

- 2. Identification of Event: Failure of left main steam stop valve to close.
- 3. Conditions Prior to Event:

The plant was in the process of being shutdown in preparation for a refueling outage.

4. Description of Event:

While performing Periodic Test 15.2 at Ol05 on May 6, 1974, the valve position instrumentation did not show that the left turbine stop valve closed. Investigation revealed that the left stop valve did not close completely when the close push button was depressed in the control room. The unit shutdown was continued as scheduled.

5. Designation of Apparent Cause of Event:

The event was the result of buildup of phosphate derivatives between the valve shaft and bushings which restricted the shaft rotating movement.

6. Analysis of Event:

The turbine was in the process of being shutdown for an extended outage. All other values in the system operated properly and turbine speed decayed as expected. The turbine was put on turning gear for the outage.

7. Corrective Action:

A stop value modification to limit the phosphate buildup around the shaft is planned for the 1974 refueling outage which is in progress. This modification consists primarily of a new shaft and bushings and field modification of the bearing end cover, the value arm, and the servo support housing. Steam generators are being operated in accordance with the most recent chemistry recommendations from Westinghouse, and moisture carry over is well with specifications.

8. Failure Data:

The turbine stop valves are 25-inch flapper type valves manufactured by Westinghouse Large Turbine Division in Lester, Pennsylvania.

On November 7, 1972, the left stop value showed sticky operation during the weekly periodic test. The turbine control values began to oscillate as a result of the hesitant operation of the stop values, and the turbine was manually tripped. Disassembly of both values revealed a deposit of white scale on the value operating shaft and bushings. The values were thoroughly cleaned, reassembled, and test operated satisfactorily.

Samples of the scale were sent to Westinghouse for chemical analysis. X-ray analysis indicated that the deposit was composed of a mixture of sodium pyrophosphate $(Na_4P_2O_7)$, sodium silicate (Na_2SiO_5) , and iron phosphate $(Fe_3(PO_4)_2)$. The predominant compound, sodium pyrophosphate, results from the dehydration of sodium phosphate and occurs at sustained high temperatures.

The proposed modification to the valves is designed to restrict the access of entrained moisture into critical areas of the valve operator.