

CP&L
Carolina Power & Light Company

October 23, 1973

Files NG-3513 & NG-3514

Serial: NG-73-510

Telecopy to:

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

Mr. John F. O'Leary
Directorate of Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Sir:

H. B. ROBINSON UNIT NO. 2
LICENSE DPR-23
VIOLATION OF STEAM FLOW SETPOINTS

In accordance with Section 6.6.2 of the Technical Specifications, the following abnormal occurrence is reported.

On October 22, 1973, it was discovered that on October 21, 1973, with the plant in a hot shutdown condition, simulated signals were placed on two steam flow channels to return their bistables to a nontripped mode due to a shift in the turbine first stage pressure transmitters caused by maintaining a vacuum on the main condenser with the turbine stop valves closed. As the Technical Specifications require this system to be operable above cold shutdown conditions, a violation occurred. This condition was corrected within 90 minutes when the operator realized that he had no steam flow indication during a normal startup.

A Technical Specification revision has been drafted requesting a revision of the steam flow setpoints which will eliminate the initiation of high steam flow bistable trips with zero steam flow.

The responsible personnel have been counseled on the importance of maintaining all instrumentation related to safety systems in their required status at all times.

This abnormal occurrence was reported to Mr. Austin Hardin of DRO, Atlanta, on October 23, 1973.

DBW:mvp

Yours very truly,

cc: Messrs. C. B. Barham
N. B. Bessac
T. E. Bowman
B. J. Furr
D. V. Menscer
D. B. Waters

Original signed by
B. J. Furr
Manager
H. B. Robinson
S. E. G. Plant

CP&L
Carolina Power & Light Company

October 25, 1973

Files NG-3513 & NG-3514

--Serial: NG-73-517

Telecopy to:

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

Mr. John F. O'Leary
Directorate of Licensing
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U. S. Atomic Energy Commission
Washington, D.C. 20545

Dear Sir:

H. B. ROBINSON UNIT NO. 2
LICENSE DPR-23
VIOLATION OF TECHNICAL SPECIFICATIONS
LIMITING VALUES OF $F(z)$ S (z)

On October 19, 1973, Carolina Power & Light Company received the approved changes to the Technical Specifications for H. B. Robinson cycle 2 operation with fuel densification from the Atomic Energy Commission. In Specification 3.10.2.1.1. limiting values for power distributions during operation above 94.6% power were specified, incorporating values of movable detector thimble factors \bar{R}_J , derived from the analysis of core power maps. A hand analysis of the maps was performed to determine thimble factors for subsequent operation of the plant under the new Technical Specifications, and were put into use on October 21, 1973, when the plant was returned to service after a short shutdown period. On October 24, 1973, a computerized analysis of the core power maps, incorporating the spike penalty factors to better determine the thimble F_q^N , revealed that the numbers determined on October 19 were in error, in that the peak value of the penalized F_q^N had not been correctly chosen from the maps. The limiting values for $F(z)$ S(z) were approximately 12% lower, resulting in several violations of Technical Specification 3.10.2.1.1 during the period October 21 - October 25, 1973. Corrective actions was taken to place the reactor in a condition which would avoid further violation of Technical Specifications. A preliminary analysis of the surveillance data and a core power map taken October 23 shows that the limiting values of F_q^N for cycle 2, 2.34, was not violated during the period in question, but the surveillance limit was violated since it includes approximately 5% additional margin.

Yours very truly,

B. J. Furr
Manager
H. B. Robinson
S. E. G. Plant

DEW:mvp

cc: Messrs. C. D. Barham
N. B. Bessac
T. E. Bowman
B. J. Furr
D. V. Menscer
D. B. Waters

OCT 31 1973

Telecopy from Carolina Power and Light Company, B. J. Furr,
dated October 23, 1973 - 50-261
Telecopy from Carolina Power and Light Company, B. J. Furr,
dated October 25, 1973

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