



Carolina Power & Light Company

May 9, 1974

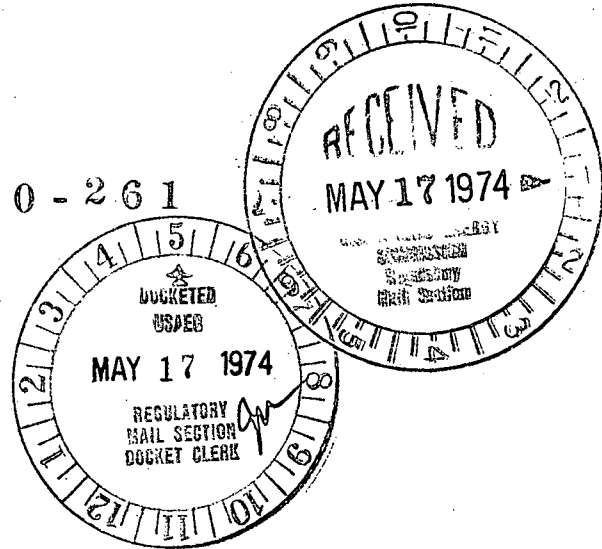
File: NG-3513 and NG-3514

Serial: NG-74-586

Mr. John F. O'Leary, Director
Directorate of Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, 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 NO. DPR-23

PRESSURIZER SAFETY AND RELIEF LINE COMBINED STRESS ANALYSIS

The following unusual event report is submitted as required by Section 6.6.2.b of the Technical Specifications.

On April 17, 1974, Westinghouse Electric Corporation notified Carolina Power & Light Company that preliminary pipe stress computer runs showed overstress in the pressurizer safety and relief line and that probably one or two additional piping supports would be required. Additional computer runs were to be performed.

The pipe stress analysis was performed by Westinghouse at the request of Carolina Power & Light Company. The analysis is based on a Westinghouse document entitled "Criteria and Guidelines for the Design of Safety and Relief Valve Installation on Westinghouse Pressurized Water Reactor Plants" dated October, 1972. This document presents criteria which are intended to supplement existing codes and standards applicable to design of safety and relief valve installations. This analysis considers all load combinations with the reaction force of blowing valves being of particular importance.

On April 24, 1974, Westinghouse notified Carolina Power & Light Company of a later computer analysis of the combined stresses. All valves were conservatively assumed to discharge simultaneously. The results of this analysis when combined with loadings due to seismic, longitudinal, pressure and assumed deadweight indicated that the combined stress in the existing

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May 9, 1974

system exceeds the USAS B31.1 code allowable values in one loop seal area. The percentage overstress is approximately 10-20%. This condition was not considered severe enough to warrant an immediate plant shutdown since the probability of all valves discharging simultaneously is conservative and the probability of a transient that would produce a lifting of the valves prior to the present refueling outage is remote. We are presently working on a support design which is scheduled to be installed during the present refueling outage. This support will be an adjustable snubber type with approximately 14 kips restraining force in either direction parallel to the vertical run of pipe passing through the operating floor in the pressurizer cubicle. Preliminary design plans are to attach one end of the support to the operating floor and one end to the 12" pipe approximately 40" above the operating floor.

We will forward additional information pending design and installation of the new support.

Yours very truly,



E. E. Utley
Vice-President
Bulk Power Supply

JMB:mvp

cc: Messrs. N. B. Bessac
T. E. Bowman
W. B. Howell
B. J. Furr
D. V. Menscer
D. B. Waters
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FILE: *M/16*

FROM: Carolina Power & Light Co. Raleigh, North Carolina E. E. Utley			DATE OF DOC 5-9-74	DATE REC'D 5-17-74	LTR X	MEMO	RPT	OTHER
TO: John F. O'Leary			ORIG 2 signed	CC 38	OTHER	SENT AEC PDR XXX SENT LOCAL PDR XXX		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D 40		DOCKET NO: 50-261		
XXX								
DESCRIPTION: Ltr furns info re unusual event of pressurizer safety and relief line combined strss analysis				ENCLOSURES: DO NOT REMOVE ACKNOWLEDGED				
PLANT NAME: H. B. ROBINSON								

FOR ACTION/INFORMATION 5-17-74 GMC

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