

CP&L

84 NRC
Carolina Power & Light Company

P.O. Box 101, New Hill, NC 27562
October 25, 1984

NRC-283

Mr. James P. O'Reilly
United States Nuclear Regulatory Commission
Region II
101 Marietta Street, Northwest (Suite 2900)
Atlanta, Georgia 30323

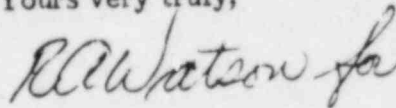
CARCLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986 - 900, 000 KW - UNIT I
AIR-OPERATED DIAPHRAGM
VALVES-NATURAL FREQUENCIES
ITEM 188

Dear Mr. O'Reilly:

Attached is an interim report on the subject item, which was deemed reportable per the provisions of 10CFR50.55(e) and 10CFR, Part 21 on September 26, 1984. CP&L is pursuing this matter, and it is currently projected that corrective action and submission of the final report will be accomplished by June 30, 1985.

Thank you for your consideration in this matter.

Yours very truly,



R. M. Parsons
Project General Manager
Shearon Harris Nuclear Power Plant

RMP/rt

Attachment

cc: Messrs. G. Maxwell/R. Prevatte (NRC-SHNPP)
Mr. R. C. DeYoung (NRC)

8411210041

OFFICIAL COPY

TE 27

11

Mr. James P. O'Reilly

NRC-283

bcc: Mr. H. R. Banks
Mr. C. S. Bohanan
Mr. H. W. Bowles
Mr. C. Carmichael (2)
Mr. G. S. Cashell
Mr. N. J. Chiangi
Mr. A. B. Cutter
Dr. T. S. Elleman
Ms. S. F. Flynn
Mr. G. L. Forehand
Mr. J. F. Garibaldi (Ebasco)
Mr. J. L. Harness
Mr. P. C. Hopkins
Dr. J. D. E. Jeffries
Mr. I. A. Johnson
Mr. S. A. Laur
Mr. L. I. Loflin
Mr. R. E. Lumsden
Mr. R. L. Mayton, Jr.
Mr. M. A. McDuffie
Mr. S. McManus
Mr. C. H. Moseley, Jr.
Mr. D. L. Nordstrom (LIS)
Mr. R. M. Parsons
Mr. Sheldon D. Smith
Mr. A. C. Tollison
Mr. R. A. Watson
Mr. F. Scapellato (Westinghouse)
Mr. J. L. Willis
Mr. T. A. Baxter (Shaw, Pittman, Potts & Trowsbridge)
Mr. M. F. Thompson, Jr.
Mr. S. Hinnant
Mr. J. F. Nevill
File: HI/A-2D
File: H-5-0544

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT 1

FIRST INTERIM REPORT

ITT-GRINNEL AIR-OPERATED DIAPHRAGM VALVES
NATURAL FREQUENCIES

ITEM 188

OCTOBER 23, 1984

REPORTABLE UNDER 10CFR50.55(e) AND 10CFR21

SUBJECT: 10CFR50.55(e) and 10CFR21 Reportable Item
Shearon Harris Nuclear Power Plant Unit 1
ITT-Grinnell Air-Operated Diaphragm Valves Natural
Frequencies.

ITEM: Air-Operated Diaphragm Valves for SHNPP Unit 1

SUPPLIED BY: Westinghouse Water Reactor Division/ITT-Grinnell

NATURE OF DEFICIENCY: Westinghouse notified CP&L in September 1984 that a problem existed with a number of air-operated diaphragm valves supplied by ITT-Grinnell. The valves, designed to have natural frequencies greater than 33 hz, were found by test not to meet this requirement. Further investigation revealed valves of the same type supplied directly by ITT-Grinnell to CP&L. These valves are supplied as ASME Class 2 and 3 components.

DATE PROBLEM WAS CONFIRMED TO EXIST: Westinghouse Letter CQL-8174 dated September 4, 1984 and received September 11, 1984.

PROBLEM REPORTED: N. J. Chiangi notified the NRC (Mr. A. Hardin) that this item was reportable under 10CFR50.55(e) and 10CFR21 on September 26, 1984.

SCOPE OF PROBLEM: Twenty-seven (27) NSSS-supplied valves and nine (9) BOP-supplied valves.

SAFETY IMPLICATIONS: Potential for increasing piping stresses and support loads in affected piping systems.

REASON PROBLEM IS REPORTABLE: Erroneous analysis/support of the valves (due to non-rigidity) could cause the design loads or stresses to be exceeded.

CORRECTIVE
ACTION:

CP&L is investigating the problem with Ebasco, Westinghouse, and ITT-Grinnell. Reanalysis of the affected lines/restraints is anticipated to begin shortly with a potential for additional restraints being added.

FINAL
REPORT:

A final report is anticipated to be submitted by June 30, 1985.