



Carolina Power & Light Company

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P. O. Box 101, New Hill, North Carolina 27562
January 22, 1985

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

NRC-317

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986 - 900,000 KW - UNIT 1
PACIFIC SCIENTIFIC SNUBBERS
MODELS PSA-1 AND PSA-3, ITEM 152

Dear Mr. O'Reilly:

Attached is our fourth interim report on the subject item which was deemed reportable per the provisions of 10CFR50.55(e) and 10CFR, Part 21, on November 8, 1983. CP&L is pursuing this matter, and it is currently projected that corrective action and submission of the final report will be accomplished by March 29, 1985.

Thank you for your consideration in this matter.

Yours very truly,

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

RMP/dh

Attachment

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

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CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

INTERIM REPORT

PACIFIC SCIENTIFIC SNUBBERS
MODELS PSA-1 AND PSA-3
ITEM 152

JANUARY 23, 1985

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

SUBJECT: Shearon Harris Nuclear Power Plant/Unit No. 1, 10CFR50.55(e) and 10CFR, Part 21, Capstan spring tang failure for mechanical shock arrestors.

ITEM: Capstan spring component in mechanical shock arrestors.

SUPPLIED BY: Pacific Scientific Company, Anaheim, California.

NATURE OF DEFICIENCY: In September, 1983, Pacific Scientific Company, Anaheim, California advised Southwest Fabricating and Welding, Houston, Texas, purchaser for CP&L, of failure of four (4) PSA-1 - 1801102-05 shock arrestors. Failure occurred during testing of Pacific Scientific Company's arrestors at Union Electric Callaway Station by Daniel International personnel. The failed arrestors were returned to Pacific Scientific Company, where additional testing was performed on the failed components by "Mettek", Santa Ana, California. Results of the test have been issued in Mettek Report No. PSC130911 dated September 14, 1983.

DATE PROBLEM OCCURRED: Purchaser notified by letter September 21, 1983. CP&L was notified by Southwest Fabricating and Welding by letter dated October 5, 1983.

DATE PROBLEM REPORTED: November 8, 1983 - CP&L (K. V. Hate') notified the NRC (A. Hardin) that this item was reportable under 10CFR50.55(e) and 10CFR, Part 21.

SCOPE OF PROBLEM: The deficiency involves 102 Unit 1 Type PSA-1 mechanical shock arrestors.

SAFETY IMPLICATIONS: The mechanical shock arrestors are required to ensure that pipe movement, acceleration, and displacement are controlled within the design limits during a seismic event.

REASON
DEFICIENCY
IS REPORTABLE:

Failure of the capstan spring tang would result in failure of the shock arrestor to function properly during a seismic event. This would result in the potential loss of operation of seismically designed piping during a seismic event.

CORRECTIVE
ACTION:

Ninety-five mechanical shock arrestors identified by Pacific Scientific Company as being part of the identical lot and in critical systems of failed items were returned to the vendor for capstan spring inspection and replacement as required. These snubbers were returned to SHNPP in late November. Resolution of the remaining seven snubbers is pending receipt of additional information.

FINAL REPORT:

Pacific Scientific Company is sending copies to CP&L of their preventative measures from the spring manufacturer. It is projected that the final report will be issued by March 29, 1985.