



Carolina Power & Light Company

April 1, 1982

File: SH N-2/18
Item 62

32 APR 5 11:02 AM
COAD 82-571

Mr. James P. O'Reilly
United States Nuclear Regulatory Commission
Region II
101 Marietta Street, Northwest
Atlanta, Georgia 30303

SHEARON HARRIS NUCLEAR POWER PLANT
DOCKET NOS. 50-400 AND 50-401
DRESSER-SUPPLIED PRESSURE GAGES



Dear Mr. O'Reilly:

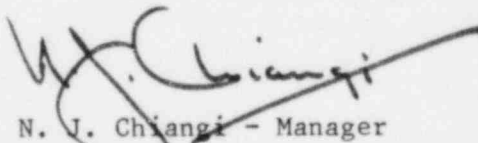
Attached is a second interim report on the subject item of which you were notified as potentially reportable per the provisions of 10CFR50.55(e) and 10CFR21 on September 23, 1981. Dresser Industries, Ebasco, and CP&L are continuing to evaluate this matter. As stated in the second interim report, the evaluation for reportability will not be complete until the culmination of seismic testing currently projected to begin in April, 1982. A final report will be issued by December 9, 1982.

Thank you for your consideration in this matter.

Yours very truly,

RDB/mt
Attachment

cc: Mr. G. Maxwell W/A
Mr. V. Stello (2) W/A


N. J. Chiang - Manager
Engineering & Construction
Quality Assurance/Quality Control

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PDR ADDCK 05000400
S PDR

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

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SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

Second Interim Report
March 30, 1982

Potentially Reportable Under 10CFR50.55(e) and 10CFR21

SUBJECT: 10CFR50.55(e) Potentially Reportable Deficiency
Shearon Harris Nuclear Power Plant - Unit No. 1
Seismic Testing of Pressure Gages
Ebasco Purchase Order NY435104

ITEM: Bourdon - Type Pressure Gages

SUPPLIED BY: Dresser Industries
Industrial Valve and Instrument Division
Stratford, Connecticut 06497

NATURE OF DEFICIENCY: The deficiency involves Seismic Category I Pressure gages. The gages were delivered to the Shearon Harris Site prior to completion and documentation of seismic testing.

DATE PROBLEM WAS CONFIRMED TO EXIST: September 23, 1981 - Shearon Harris Site personnel discovered that documentation was not available for Seismic I pressure gages.

PROBLEM REPORTED: September 23, 1981 - L. E. Jones (CP&L) reported the item as potentially reportable to Mr. R. Butcher, Region II, Nuclear Regulatory Commission.

October 7, 1981 - CP&L personnel (E. Evans) requested Ebasco (X. Pique) to conduct an evaluation.

SCOPE OF PROBLEM: The problem is confined to seismic pressure gages having either steel or bronze Bourdon tube mechanisms. Thirty-eight purchase order items, consisting of a total of 38 pressure gages are involved.

SAFETY IMPLICATIONS: The pressure gages are classified as Seismic Category I, and installed in safety-related piping systems. The gages are installed directly on pipes or on instrument panels. In the latter case, small diameter piping or tubing connects the gage to the pressure boundary.

Failure of the pressure gages to retain pressure boundary integrity during or after an earthquake could adversely affect the safe operation of the plant.

REASONS PROBLEM
IS POTENTIALLY
REPORTABLE:

During a routine inspection by Ebasco at Dresser's plant on October 1 and 2, 1979, the Ebasco inspector rejected a shipment of pressure gages because documentation was not complete. Some time thereafter, Dresser Industries inadvertently shipped some of the Seismic I pressure gages that were previously rejected, without obtaining the proper Ebasco release and before completion of Seismic testing. The Seismic I pressure gages apparently were delivered to the Shearon Harris Site as part of a shipment consisting primarily of Non Nuclear Safety pressure gages.

A seismic test procedure for pressure gages (Dresser Report #ASH-131EI dated 2/20/75) has been submitted to Ebasco for review. Ebasco made comments on this report (Ebasco letter to Dresser SH-251-385 dated 1/14/81). To date, no seismic tests have been conducted on these gages.

The question of reportability is addressed in this report as a potential breakdown of Dresser's Quality Assurance Program, which permitted Safety-related items to be shipped without the required Ebasco inspection, and prior to the completion of seismic testing.

To determine whether this deviation, if left uncorrected, could create a substantial safety hazard, seismic tests will have to be conducted.

Seismic test results for both steel-type and bronze-type pressure gages are not yet available. Evaluations by Ebasco cannot be completed at this time. Therefore, a final determination of reportability cannot be made until tests are completed and evaluated.

The seismic testing and required review of the seismic report are scheduled for completion by December 9, 1982 at which time evaluations will be completed. A final report will then be prepared and issued.

CORRECTIVE
ACTION:

- 1) Seismic I Pressure gages from Dresser delivered to the Shearon Harris site have been placed on "QA Hold" as of 9/23/81.
- 2) Dresser Industries has been made aware of this report and will be requested to provide comments, prior to preparation of the final report.

- 3) Seismic testing will be conducted by Dresser/Dayton T. Brown Co. The results will be reviewed by Ebasco. A total of four tests will be conducted; two tests on panel-mounted instruments and two tests on pipe-mounted instruments: one test each for bronze Bourdon tubes, and steel Bourdon tubes. Results will be presented in the final report which is scheduled for completion by December 9, 1982.