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Docket No.: 50-400

Mr. E. E. Utley, Executive Vice President
Power Supply & Engineering & Construction
Carolina Power and Light Company
Post Office Box 1551
Raleigh, North Carolina 27602

Dear Mr. Utley:

Subject: Request for Additional Information - Shearon Harris, Unit 1

A generic deficiency relating to the omission of the consideration of superheat in the main steam line break analysis for Westinghouse plants has been identified. To conform with the criteria of Standard Review Plan Section 3.6.1, "Plant Design for Protection Against Postulated Failure in Fluid Systems Outside Containment," we request that you conduct an analysis for Shearon Harris, Unit 1 which will include the consideration of possible superheat in the calculation. Please respond to the enclosed request for additional information within 90 days of receipt of this letter.

Sincerely,

ORIGINAL SIGNED BY

George W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing

Enclosure:
As stated

cc: See next page

DISTRIBUTION

Docket File 50-400

NRC PDR EJordan
NSIC NGrace
LPDR ACRS (16)
PRC System
LB#3 Reading
BBuckley
JLee
Attorney, OELD

DL:LB#3
BBuckley/yt
12/6/84

DL:LB#3
GWKnighton
12/7/84

The following information was obtained from the records of the
 Department of the Interior, Bureau of Land Management, regarding
 the land parcels described herein. The information is being provided
 for your information and is not intended to constitute a warranty
 of any kind. The information is based on the records of the
 Department of the Interior, Bureau of Land Management, as of the
 date of this report. The information is subject to change without
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APPENDIX A

The following information was obtained from the records of the
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Shearon Harris

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The first part of the document discusses the importance of maintaining accurate records. It states that records are essential for the proper management of an organization and for ensuring accountability. The document emphasizes that records should be kept up-to-date and should be easily accessible to those who need them.

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Dr. Linda Little
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Raleigh, North Carolina 27611

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY
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CHICAGO, ILLINOIS 60637

QUESTION CONCERNING STEAM LINE BREAK ANALYSIS
WHEN CONSIDERING SUPERHEAT

Calculate conditions within the compartment containing the three main steam isolation valves that can result from a main steam line break, taking into account the possible occurrence of superheat conditions. Provide the results of that calculation including the following parametric information with regard to that break (Items 1-4, below):

1. With respect to the pipe to be broken, we need to know the:
 - a. Type of fluid (water or steam);
 - b. Temperature;
 - c. Pressure;
 - d. Source of the fluid;
 - e. Flow rate (or assumed flow rate) versus time; and
 - f. Enthalpy versus time

2. With respect to the compartment being analyzed;
 - a. Number of compartments analyzed;
 - b. For each compartment, including contiguous compartments:
 - i. initial temperature
 - ii. initial pressure
 - iii. initial humidity
 - iv. total floor area and floor space occupied by equipment (square feet)
 - v. number of vents and vent areas (square feet) for each vent; and
 - vi. compartment wall height (feet) and
 - c. Simple compartment and interconnection diagram.

3. All assumptions used, including but not limited to the:
 - a. Orifice coefficient;
 - b. Fluid expansion factor;
 - c. Heat transfer coefficient for heat through the walls; and
 - d. Single active failures that were considered in the analysis

4. Utilities analysis results:
 - a. Temperature versus time curve (peak temperature specified);
 - b. Pressure versus time curve (peak pressure specified); and
 - c. Humidity versus time curve (peak humidity specified)