



Carolina Power & Light Company

Central File

November 6, 1979

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

SHEARON HARRIS NUCLEAR POWER PLANT UNIT NOS. 1, 2, 3 AND 4
DOCKET NOS. 50-400, 50-401, 50-402, AND 50-403
IE BULLETIN 79-24

Dear Mr. O'Reilly:

Carolina Power & Light Company (CP&L) has reviewed the design of protective measures to assure that safety related process, instrument and sampling lines do not freeze during extremely cold weather. The freeze protection system for the Shearon Harris Nuclear Power Plant (SHNPP) is being procured to meet the following design requirements:

- (1) Freeze protected piping at SHNPP will be maintained at a temperature of 40°F or above.
- (2) The freeze protection panel is activated if the ambient temperature in the area of any portion of the protected piping system falls to 40°F or less. Activation is by one of two ambient sensing temperature controllers connected in parallel.
- (3) The freeze protection system is designed for an ambient temperature of -2°F in conjunction with maximum wind velocity.
- (4) A low temperature alarm will actuate if the freeze protection panel fails to energize at 35°F or less.
- (5) Ambient sensing temperature controllers will be located in areas anticipated to be exposed to the coldest temperatures.

Carolina Power & Light Company believes that this system will provide adequate freeze protection for safety related piping systems during periods of cold weather.

Yours very truly,

M. A. McDuffie

M. A. McDuffie
Senior Vice President
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