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AUTH.NAME AUTHOR AFFILIATION
MCDUFFIE,M.A. Carolina Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards responses to Power Sys Branch draft SER Open Item 117 re cooling water leakage.Impact of flooding from postulated breaks in moderate energy fluid sys have no adverse effects on diesel generator areas.

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Carolina Power & Light Company

JUN 13 1983

SERIAL: LAP-83-201

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
UNIT NOS. 1 AND 2
DOCKET NOS. 50-400 AND 50-401
DRAFT SAFETY EVALUATION REPORT RESPONSES
POWER SYSTEMS BRANCH

Dear Mr. Denton:

Carolina Power & Light Company (CP&L) hereby transmits one original and forty copies of a response to a Shearon Harris Nuclear Power Plant Draft Safety Evaluation Report Open Item. This response is for the Power Systems Branch, and is CP&L Open Item No. 117.

We will be providing responses to other Open Items in the Draft Safety Evaluation Report shortly.

Yours very truly,

M. A. McDuffie
Senior Vice President
Engineering & Construction

JDK/lcv (6939JDK)

Attachment

cc: Mr. N. Prasad Kadambi (NRC)
Mr. G. F. Maxwell (NRC-SHNPP)
Mr. J. P. O'Reilly (NRC-RII)
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SHEARON HARRIS NUCLEAR POWER PLANT
DRAFT SER ITEM NO. 117 (FSAR SECTION 9.5.5., NRC QUESTION 430.35)

Consideration of cooling water leakage with respect to NRC Question 430.35 response.

NRC Clarification of SER Item No. 117

The conclusion in the response to NRC question 430.35 requires additional information. Did the evaluation consider floor drain removal of cooling water or were there facility design features provided to separate the diesel generators from flooding effects?

Response

The Emergency Diesel Generator Building cooling water flooding analysis did not take credit for removal of leaking cooling water by the building's floor drain system. Facility design features provide for the effects of potential flooding and the unaffected diesel generator area will not be affected by the leaking cooling water. Diesel generator building room arrangements, as shown on Figures 1.2.2-86, and 1.2.2-87, preclude large water inventory buildup in the building, and prevent flooding in one diesel generator area from impacting on other diesel generator areas.

As described in FSAR Section 9.5.5.3 the sumps in the diesel generator areas are provided with level switches for sump pump start-up. Pump actuation is annunciated in the control room. The sump pump annunciation will alert the operators to possible leaking fluid and potential flooding. Additionally, as shown on Figure 9.5.5-2, Amendment No. 5, the sump drain piping is valved and physically arranged so as to preclude the effects of flooding in one diesel generator area from affecting the other areas.

Therefore, the impact of flooding from postulated breaks in moderate energy fluid systems has been considered in system and facility design and has been determined by analysis to have no adverse effects on diesel generator areas where the postulated break did not occur.

(6939JDKlcv)