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Carolina Power & Light Company

P. O. Box 101, New Hill, N. C. 27562  
June 3, 1983

NRC-84

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USNRC REGION II  
ATLANTA, GEORGIA

Mr. James P. O'Reilly  
United States Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Northwest (Suite 3100)  
Atlanta, Georgia 30303

CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
1986-90 - 900,000 KW - UNITS 1 & 2  
WELD DEFICIENCIES IN UNIT 1  
CHILLED WATER VALVE, PURCHASE ORDER NY-435176, ITEM 127

Dear Mr. O'Reilly:

Attached is an interim report on the subject item which was deemed reportable per the provisions of 10CFR50.55(e) and 10CFR, Part 21, on May 5, 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 September 1, 1983.

Thank you for your consideration in this matter.

Yours very truly,

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

RMP/sh

Attachment

cc: Mr. G. Maxwell (NRC-SHNPP)  
Mr. R. Prevatte (NRC-SHNPP)  
Mr. V. Stello (NRC)

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CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

WELD DEFICIENCIES IN UNIT 1 CHILLED WATER VALVE  
ITEM 127

INTERIM REPORT

JUNE 3, 1983

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

<u>SUBJECT</u>	Shearon Harris Nuclear Power Plant Unit No. 1 10CFR50.55(e) and 10CFR Part 21 reportable weld deficiencies in three-way chilled water valve purchased under Purchase Order NY-435176, Item 168
<u>ITEM</u>	Deficiency and Disposition Report 1422; Valve 3CX-W25SB-1 was found to have vendor shop weld defects.
<u>SUPPLIED BY</u>	ITT Hammel Dahl, Warwick, Rhode Island
<u>NATURE OF DEFICIENCY</u>	In March 1983, the Quality Assurance Department, Shearon Harris Nuclear Power Plant, reported lack of penetration on the I.D. of vendor shop welds in the above-referenced valve.
<u>DATE PROBLEM OCCURRED</u>	Refer to the section above.
<u>DATE PROBLEM REPORTED</u>	<p>On April 7, 1983, Mr. K. V. Hate' notified the NRC (Mr. A. Hardin) of a potentially reportable item per the provisions of 10CFR50.55(e) and 10CFR Part 21. The NRC was informed that an HVAC chilled water valve supplied by ITT Hammel Dahl was found to have shop weld deficiencies. Failure of the valve could result in the loss of control room cooling.</p> <p>On May 5, 1983, Mr. N. J. Chiangi notified the NRC (Mr. A. Hardin) that the April 7, 1983 potentially reportable item concerning shop weld deficiencies in an HVAC chilled water valve supplied by ITT Hammel Dahl was evaluated and found to be reportable per the provisions of 10CFR50.55(e) and 10CFR Part 21.</p>
<u>SCOPE OF PROBLEM</u>	The deficiency involves loss of safety-related chilled water.
<u>SAFETY IMPLICATION</u>	Loss of safety-related chilled water could potentially jeopardize the allowable environmental operating temperature of certain safety components and the environment envelop of the main control room.

REASON  
DEFICIENCY  
IS REPORTABLE

Failure of the valve could result in the reduction of cooling to Safety Train "B" Air Handling Units. No means of automatic isolation in vicinity of deficiency; therefore, some "B" train is sacrificed.

Incorporating additional single-failure criterion (loss of Safety Train A), the environmental qualification of essential components could potentially be jeopardized due to exceeding the allowable operating temperatures.

CORRECTIVE  
ACTION

Valve to be shipped back to the vendor for repair.

PREVENTATIVE  
MEASURE

Preventative measures will be by ITT Hammel Dahl. Last vendor contact was on May 31, 1983. An extension of time is requested to allow the vendor to complete preventative measures. Estimated date for receipt of preventative measures from vendor is August 1, 1983.

FINAL REPORT

The final report will be issued after the valve has been repaired and preventative measures have been received from Hammel Dahl. Projected final report date is September 1, 1983.