



Carolina Power & Light Company

CDR  
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File: SH N-2/18  
Item 59

July 7, 1981

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



SHEARON HARRIS NUCLEAR POWER PLANT UNITS 1, 2, 3 AND 4  
DOCKET NOS. 50-400, 50-401, 50-402, 50-403  
VOLUME CONTROL TANK (VCT) LEVEL CONTROL SYSTEM

Dear Mr. O'Reilly:

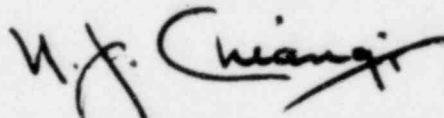
Attached is an interim report on the subject item which was deemed potentially reportable on June 9, 1981. Westinghouse is pursuing this matter with NRC NRR and final disposition will be dependent upon NRC evaluation. As stated in the report, by October 5, 1981, we will either determine reportability based on our review of the situation or submit another interim report providing the item status and the new date as to when the reportability evaluation will be completed.

Thank you for your consideration in this matter.

Yours very truly,

NJC/mt (497/754)  
Attachment

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

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

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1/1

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PDR AD(CK) 05000400  
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SHNPP

Unit Nos. 1, 2, 3, 4

VOLUME CONTROL TANK LEVEL CONTROL SYSTEM

INTERIM REPORT

July 2, 1981

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

Prepared by: CP&L

SUBJECT: 10CFR50.55(e) and 10CFR21 Potentially Reportable Item - SHNPP Volume Control Tank Level Control System

ITEMS: Interaction between the Volume Control Tank (VCT) level control system and the Safety Injection/Charging Pumps

SUPPLIED BY: Westinghouse

NATURE OF DEFICIENCY: Concern that a malfunction in the VCT level control system could cause loss of suction fluid to an operating Safety Injection/Charging pump.

DATE PROBLEM WAS CONFIRMED TO EXIST: There is not yet any confirmation that a problem does or does not exist; therefore, the potentially reportable status of this situation.

PROBLEM REPORTED: June 9, 1981 - N. J. Chiangi informed the NRC (Mr. V. Brownlee) that this item was considered potentially reportable under 10CFR50.55(e) and 10CFR21.

SCOPE OF PROBLEM: A potential exists for damage to the Safety Injection/Charging pumps due to loss of suction fluid if there is no operator intervention in conjunction with a malfunction or failure of the VCT level control system which leads to a decrease in the liquid inventory within the VCT. It has been determined by Westinghouse that this situation may not meet the intent of the NRC regulations related to separation of protection and control systems and single failure criteria as delineated in GDC-24 and IEEE-279, Section 4.7.3.

CORRECTIVE ACTION: The Westinghouse recommendation is that plant procedures be reviewed to assure the operator would be properly alerted to this situation and would take the appropriate action necessary to assure an adequate water supply to the charging pumps. SHNPP Nuclear Operations will incorporate this into the SHNPP operating procedures when the procedures are written. However, if the NRC does not find the Westinghouse position acceptable, then hardware changes will be necessary. A final disposition on this situation will be forwarded to you by October 5, 1981.