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July 24, 1981
L-81-316

Mr. James P. O'Reilly, Director, Region II
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

Re: St. Lucie Unit 2
Docket No. 50-389
Local Control Station Switch Protuberance



On June 25, 1981, Florida Power & Light Company (FPL) reported to the Region II Office of Inspection and Enforcement a potential 10 CFR 50.55(e) condition involving local control switches supplied by Gould Rundel. A final report is attached for your review.

Very truly yours,

A handwritten signature in cursive script, reading "Robert E. Uhrig".

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/TCG/ah

Attachment

cc: Director of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555 (with attachment)
Harold F. Reis, Esquire (w/o attachment)

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FINAL DEFICIENCY REPORT
LOCAL CONTROL STATION SWITCH PROTUBERANCE

Name of Station
Owner
Architect/Engineer
Date NRC Notified
Final Report Filed

St. Lucie Plant - Unit 2
Florida Power and Light Company
Ebasco Services Incorporated
June 24, 1981
July 24, 1981

I Summary

Post installation inspection of local control stations identified a certain deficiency in the control switches supplied by Gould Rundel which could affect the starting mechanism of certain pumps (including fuel pool pumps). Because of the deficiency the pump will turn on but may not remain on when the switch is released.

This deficiency involved the switch development schedule in the purchase specification and was considered reportable under 10CFR50.55(e). FP&L (W. Hayward) notified the NRC (H Dance) on June 25, 1981. This final report is submitted to advise the NRC of the description of the deficiency and the corrective actions that will be taken.

II Description

Gould Rundel supplied type SS4 and SS6 switches on local control stations were identified as having a deficiency whereby the pump will turn on but may not remain on when switch is released. Upon further investigation it has been determined that a protuberance on the cam portion of the switch momentarily opens up the start contact once the switch is released from start position. The contact relay is deenergized for a time long enough to stop the pump. Accordingly, a nonconformance report (NCR No. 1842E) was written on this item.

The fuel pool pumps 2A and 2B are the only safety related components identified as containing these types of switches in their local control stations. An indication light is present if the pump is de-energized.

The vendor was contacted and it was verified that the switches were supplied according to the purchase specification. However, the vendor interpretation of the purchase specification which included a switch development schedule led to a situation whereby the actual pumps' control and operational requirements were not met.

III Corrective Action

The purchase specification is being revised to specify contact maintenance during position change and the vendor will be requested to provide additional switches as per the revised specification. However, as an interim measure, repair will be performed at the site whereby the cam protuberance will be ground out. These repaired switches will be included for system testing purposes only and not for plant operations. A list of the affected switches is maintained and the switches are tagged to identify them. Once new switches are received, the repaired ones will be replaced with the new switches prior to the end of 1981 and according to a repair procedure.

IV Safety Implications

The affected pumps include the fuel pool cooling pumps 2A and 2B which are safety related. The safety of operation of the nuclear power plant

could have been adversely affected sometime throughout the expected life time of the plant, if the switches that include the cam protuberance were to have remained uncorrected.

V Conclusion

Corrective action as indicated in Section III of this report will be undertaken. This closes out this item for St. Lucie Unit 2 as regards to 10CFR50.55(e) requirements.