P.O. BOX 529100 MIAMI, FL 33152

FLORIDA POWER & LIGHT COMPANY

August 24, 1981
L-81-368

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
Reliance Electric Supplied
Microswitches

On June 24, 1981, Florida Power & Light Company notified the Region II Office of Inspection and Enforcement of a potential reportable deficiency where Class IE microswitch housings, supplied by Reliance Electric, were capable of rotating as the switches are cycled. An interim report was submitted to you on July 24, 1981 (L-81-320). FPL has completed its evaluation and a final deficiency report is attached for your review.

Very truly yours,

Robert E. Uhrig

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU:TCG:cf

Attachment

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

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FINAL DEFICIENCY REPORT
RELIANCE ELECTRIC SUPPLIED MICROSWITCHES

Names of Station:	St. Lucie Plant - Unit 2
Owner:	Florida Power & Light Company
Architect/Engineer:	Ebasco Services, Incorporated
Date of NRC Notification:	June 24, 1981
Interim Report Filed:	July 24, 1981
Final Report Due:	August 24, 1981

I. Summary

During an unplanned QC inspection of the control room RTG board, site construction personnel uncovered a problem with the installation of switches on the boards. It was realized that proper panel cutouts were not made and the switch housing could rotate during switch actuation. Potential existed for degradation of the contacts and wires to a point when it could break.

Per the requirements of 10CFR50.55(e), the deficiency was considered potentially reportable and, FP&L (W. Haywood) notified the NRC (H. Dance) on June 25, 1981. This final report is being submitted to provide the NRC a description of the deficiency and the corrective actions taken.

II. Description

The RTG Board is provided by Reliance Electric on the St. Lucie Unit 2 Project under purchase order NY-422551. Switches on the RTG Board are specified to be supplied by Microswitch, U.S.A. Microswitch U.S.A. provided a recommendation for panel cutout for switches it supplies. Locking rings are required to be provided to prevent the switch housing from rotating as the switch knob is rotated. A proper panel cutout must be fabricated for installation of the locking rings. Certain key operated selector switches were identified as not having the proper cutout. Internal locking rings were omitted during the mounting of these switches on the panel of the RTG Board. Without the locking ring the switch housing could rotate when the switch is actuated.

III. Corrective Action

The vendor was contacted and based on their recommendation, site construction developed a Nonconformance Report (NCR #1928E) which specifies a procedure by which all key operated selector switches installed on the RTG boards were inspected for proper installation.

For those microswitches that rotate, proper modification of the panel tab slot was made. Locking rings were provided and the switches were installed following the NCR.

IV. Safety Implication

The improper installation of the microswitches on the RTG Board could have adversely affected the safety of operations of the plant during its lifetime if it were to have remained uncorrected, since some of these switches are Class IE and are required for safe shutdown. If the switch housings were capable of rotating certain safety related equipment required for safe shutdown may not have been available. This was considered a deviation from equipment performance specifications and therefore considered reportable.

V. Conclusion

Corrective action as indicated in paragraph III was completed. This closes out this item for St. Lucie Unit 2 as regards to 10CFR50.55(e) requirements.