

USNRC REGION II  
ATLANTA, GEORGIA

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July 24, 1981  
L-81-320

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 25, 1981, Florida Power & Light Company notified the Region II Office of Inspection and Enforcement that Class IE microswitch housings, supplied by Reliance Electric, were capable of rotating as the switches are cycled. At that time the event was considered potentially reportable. Upon further evaluation, we have determined that this situation is reportable and per the requirements of 10CFR50.55(e) have attached an interim report for your review. A final deficiency report will be issued by August 24, 1981.

Very truly yours,

Robert E. Uhrig  
Vice President  
Advanced Systems & Technology

REU/TCG/bs

Attachment

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



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## I Summary

Site construction personnel uncovered a problem with the installation of certain switches on the Reliance Electric RTG Boards located in the control room.

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 24, 1981. This interim report is being submitted to provide a description of the deficiency and the corrective actions to be 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 supplied by Microswitch, U.S.A. Microswitch U.S.A. provides a recommendation for the panel cutout for switches it supplies. A proper panel cutout must be fabricated for installation of the locking rings. Certain switches did not have the proper cutout and internal locking rings were omitted during the mounting of those 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

Site construction personnel are inspecting microswitches installed on the RTG Board for proper installation to assure that the switches will not rotate during actuation.

For those microswitches that rotate, modification of the panel tab slot will be made in accordance with the recommendations of the vendor (Microswitch U.S.A.). Locking rings for the microswitches are to be supplied and installed in accordance with the recommendations of the vendor.

## 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 1E 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

Although a deficiency exists in the mounting of Microswitches on the RTG Board, construction personnel are aware of the problem and the necessary corrective actions required to correct the situation will be instituted as discussed in Section III above (Corrective actions).

INTERIM DEFICIENCY REPORT  
RELIANCE ELECTRIC SUPPLIED MICROSWITCHES

Name 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