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JUL 26 1983

Docket No. 50-389

Dr. Robert E. Uhrig, Vice President
Advanced Systems and Technology
Florida Power and Light Company
P. O. Box 14000
Juno Beach, Florida 33408

Dear Dr. Uhrig:

Subject: Safety Evaluation Supporting Amendment No. 3 to Facility Operating License No. NPF-16

On June 17, 1983, Amendment No. 3 to Facility Operating License No. NPF-16 for the St. Lucie Plant, Unit 2 was issued. This amendment authorized use of an alternate means of monitoring the Pressure Operated Relief Valve leakage, in response to your letters dated June 15, 16 and 17, 1983. Enclosed for your information is a copy of the safety evaluation supporting issuance of Amendment No. 3 to Facility Operating License No. NPF-16.

Sincerely,

Original signed by:
George W. Knighton

George W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing

Enclosure:
Safety Evaluation

cc w/enclosure:
See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION
SUPPORTING AMENDMENT 3 TO FACILITY OPERATING LICENSE NO. NPF-16
ST. LUCIE PLANT, UNIT 2
DOCKET NO. 50-389

Introduction

On June 15, 16 and 17, 1983, Florida Power and Light (FP&L) Company submitted letters (Robert Uhrig of FP&L to Darrell Eisenhut of NRC) requesting a change to the St. Lucie 2 Technical Specification requirement for Power Operated Relief Valves (PORV) position indication. Currently the plant uses acoustical monitoring and magnetic limit switches devices. The limit switches have been failing and an alternate means for PORV indication is being proposed. The licensee requested the following changes.

First, the licensee proposed to change the technical specification Table 3.3-10 to allow use of an alternate means for PORV position indication other than that originally proposed to the staff during review for an operating license. As stated above PORV position indication (See SER Section 7.6.7.9) is detected by acoustical flow monitors (primary) and limit switches (backup to acoustical device). For both of these methods of indications the licensee elected to use safety grade equipment although it is not required. NUREG-0737 states that the valve position indication may be safety grade and if it is not safety grade a back up method may be provided. The licensee proposed an amendment to the St. Lucie 2 Technical Specifications which would allow use of quench tank pressure, level and temperature, and discharge piping temperature, which is non-safety grade equipment, to monitor PORV position when only one of the redundant (acoustic device or limit switch) indications is available.

It should be noted that if a leak is registered when using the quench tank pressure, level and temperature and discharge piping temperature, then all valves will be suspected of leaking until the action taken in the plant procedure is used to determine which valve is leaking.

Second, the licensee proposed to change the technical specification Table 3.3-10 to allow plant operation to continue upon loss of the redundant indication circuits provided that the block valve associated with the affected PORV is shut and electrical motive power is removed from the valve operator.

Evaluation

The staff reviewed the information provided by the licensee and found the licensee's above proposals to be acceptable except that the staff required that the use of the alternate means described above for PORV position indication be incorporated into the plant emergency procedures.

Based on the above, the staff concluded that sufficient information will be available to monitor and assess PORV position indication. It should be noted that during the review for an operating license the use of the quench tank and its associated parameters mentioned above were found acceptable by the staff for use as backup indication for the pressurized safety relief valves whose discharge lines connect with the PORV discharge lines, both of which discharge into the quench tank. The staff judges with reasonable assurance that implementation of the licensee's proposed modifications in combination with the staff's requirement will not cause undue risk to the health and safety of the public.

Contact With State Official

On June 16, 1983, the staff contacted the Administrator, Radiological Health Services, State of Florida for consultation and the State of Florida input. No comments were received regarding the initial no significant hazard consideration (NSHC) determination and the final NSHC determination.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that that amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR Section 51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

Based upon our evaluation of the proposed change to the St. Lucie Plant, Unit 2 Technical Specifications, we have concluded, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment is not inimical to the common defense and security or to the health and safety of the public. We, therefore, concluded that the proposed changes were acceptable. Therefore, on June 17, 1983, Amendment No. 3 to Facility Operating License No. NPF-16 was issued. This amendment authorized use of an alternate means of monitoring the PORV leakage.

Dated: