Docket No. 50-389

June 9, 1986

DCF 014

Mr. C. O. Woody
Group Vice President
Nuclear Energy
Florida Power & Light Company
P. O. Box 14000
Juno Beach, Florida 33408

Dear Mr. Williams:

SUBJECT: SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

This letter represents our supplemental safety evaluation on the above subject and addresses your submittal of confirmatory information by letter dated September 4, 1985. The confirmatory information was requested when we provided you our safety evaluation of the SPDS on June 11, 1985. The confirmatory information addressed the SPDS's display of plant variables consisting of hot leg temperature, stack radiation, containment hydrogen, steam line radiation, and containment isolation. In addition, the confirmatory information addressed variable validation.

In regard to hot leg temperature, stack radiation, and containment hydrogen concentration, you stated that these variables can be displayed on the SPDS CRT by use of the dedicated function key pad located near the control board. Because these variables were not part of the original SPDS variable list, you stated that they would not be available on the same schedule as SPDS, but will be provided to the SPDS on the same schedule as the Safety Assessment System (SAS). This resolves our concern regarding the availability of these variables.

In connection with steam line radiation, you stated that the main steam line radiation monitors are not displayed on SPDS, but are alarmed on the Area Radiation Monitoring System (ARMS) panel. In addition, the main steam line radiation monitors will also be available on a CRT which is located next to the operator's desk and is part of the SAS. This resolves our concern regarding the availability of this variable.

Regarding containment isolation, you stated that containment isolation valve position indication will be available on a CRT located on a console next to the operator's desk (part of SAS). This resolves our concern regarding the availability of this variable.

The validation of SPDS variables relative to the Critical Safety Function was also a confirmatory item. You stated that the variables used to support SPDS were selected from SAS generic guidelines, operations personnel, members of Quadrex (the vendor), FP&L personnel, NUREG-0696, Combustion Engineering EPGs, and AIF guidelines. The requirements for variable validation for SPDS have

not generally been reviewed for operating plants such as St. Lucie prior to implementation unless specifically requested by the licensee. You have not requested a pre-implementation review and, therefore, we conclude that this confirmatory item is resolved. However, a review of this concern would be conducted by the staff during a post-implementation audit.

In our safety evaluation dated June 11, 1985, we confirmed that you had committed to a Human Factors Program to ensure that the displayed information could be readily perceived and comprehended so as not to mislead the operator. You should assure that the variables of hot leg temperature, stack radiation, and containment hydrogen, which will be added to the SPDS on the SAS implementation schedule, are addressed in the Human Factors Program.

Since some of the above described variables will be added to the SPDS on the SAS implementation schedule, we believe that there is a need to establish a SAS completion schedule in order to ensure closure of the entire SPDS. You are requested to provide a SAS completion schedule within 30 days of your receipt of this letter or provide a date by which you can meet the request within 15 days of receipt of this letter.

Based upon this letter and our letter dated June 11, 1985, we conclude that we have not identified any serious safety questions or inadequacies and, therefore, find no reason to direct FP&L to cease implementation. The conclusion that SPDS implementation may continue does not imply staff confirmation that the SPDS meets the requirements of Supplement 1 to NUREG-0737. Such confirmation can be made after a full post-implementation audit or when the staff has otherwise obtained sufficient information.

This request for additional information affects fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

In a separate but related matter, we met with your staff on May 20, 1986 to discuss the progress review report we wrote on the St. Lucie SPDS. This report was provided to you by letter dated February 18, 1986. In that meeting, your staff made a number of commitments. Those commitments were acknowledged in the meeting summary which was forwarded to you under separate cover.

Please contact the project manager, E. Tourigny, (301) 492-8007, if you have any questions.

Sincerely,

/s/

E. G. Tourigny, Project Manager
PWR Project Directorate #8
Division of PWR Licensing-B

cc: See next page

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Mr. C. O. Woody
Florida Power & Light Company

St. Lucie Plant

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