January 30, 2003

Mr. J. A. Stall
Senior Vice President, Nuclear and
Chief Nuclear Officer
Florida Power and Light Company
P.O. Box 14000
Juno Beach, Florida 33408-0420

SUBJECT: ST. LUCIE PLANT, UNIT 2 - REQUEST FOR ADDITIONAL INFORMATION REGARDING REDUCTION IN MINIMUM REACTOR COOLANT SYSTEM FLOW (TAC NO. MB6526)

Dear Mr. Stall:

By letter dated October 15, 2002, Florida Power and Light Company submitted an amendment to reduce the design reactor coolant system flow rate to accommodate an increase in the steam generator plugging level.

The U.S. Nuclear Regulatory Commission staff has reviewed your submittal and finds that a response to the enclosed request for additional information is needed before we can complete the review. This request was discussed with your staff on January 10, 2003, and Mr. George Madden of your staff agreed that a response would be provided within 30 days.

If you have any questions, please feel free to contact Eva Brown at (301) 415-2315.

Sincerely,

/RA by Eva Brown for/

Brendan T. Moroney, Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-389

Enclosure: Request for Additional Information

cc w/encl: See next page

January 30, 2003

Mr. J. A. Stall
Senior Vice President, Nuclear and
Chief Nuclear Officer
Florida Power and Light Company
P.O. Box 14000
Juno Beach, Florida 33408-0420

SUBJECT: ST. LUCIE PLANT, UNIT 2 - REQUEST FOR ADDITIONAL INFORMATION REGARDING REDUCTION IN MINIMUM REACTOR COOLANT SYSTEM FLOW (TAC NO. MB6526)

Dear Mr. Stall:

By letter dated October 15, 2002, Florida Power and Light Company submitted an amendment to reduce the design reactor coolant system flow rate to accommodate an increase in the steam generator plugging level.

The U.S. Nuclear Regulatory Commission staff has reviewed your submittal and finds that a response to the enclosed request for additional information is needed before we can complete the review. This request was discussed with your staff on January 10, 2003, and Mr. George Madden of your staff agreed that a response would be provided within 30 days.

If you have any questions, please feel free to contact Eva Brown at (301) 415-2315.

Sincerely,

/RA by Eva Brown for/

Brendan T. Moroney, Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-389

Enclosure: Request for Additional Information

cc w/encl: See next page

DISTRIBUTION:

PUBLIC	EBrown	BMoroney	AHowe	PDII-2 R/F	JMunday, RII
OGC	SColpo	FAkstulewicz	JLee	MReinhart	
ACRS	BClayton (Hard copy)				

ADAMS ACCESSION NUMBER: ML030300194

OFFICE	PDII-2/PM	PDII-2/PM	PDII-2/LA	SRXB/SC	PDII-2/SC
NAME	EBrown for BMoroney	EBrown	BClayton	FAkstulewicz	KJabbour for AHowe
DATE	1/29/03	1/29/03	1/29/03	1/29/03	1/29/03

OFFICIAL RECORD COPY

Mr. J. A. Stall
Florida Power and Light Company

ST. LUCIE PLANT

cc:
Senior Resident Inspector
St. Lucie Plant
U.S. Nuclear Regulatory Commission
P.O. Box 6090
Jensen Beach, Florida 34957

Craig Fugate, Director
Division of Emergency Preparedness
Department of Community Affairs
2740 Centerview Drive
Tallahassee, Florida 32399-2100

M. S. Ross, Attorney
Florida Power & Light Company
P.O. Box 14000
Juno Beach, FL 33408-0420

Mr. Douglas Anderson
County Administrator
St. Lucie County
2300 Virginia Avenue
Fort Pierce, Florida 34982

Mr. William A. Passetti, Chief
Department of Health
Bureau of Radiation Control
2020 Capital Circle, SE, Bin #C21
Tallahassee, Florida 32399-1741

Mr. Donald E. Jernigan, Site Vice President
St. Lucie Nuclear Plant
6351 South Ocean Drive
Jensen Beach, Florida 34957

Mr. R. E. Rose
Plant General Manager
St. Lucie Nuclear Plant
6351 South Ocean Drive
Jensen Beach, Florida 34957

Mr. J. T. Voorhees
Acting Licensing Manager
St. Lucie Nuclear Plant
6351 South Ocean Drive
Jensen Beach, Florida 34957

Mr. Don Mothena
Manager, Nuclear Plant Support Services
Florida Power & Light Company
P.O. Box 14000
Juno Beach, FL 33408-0420

Mr. Rajiv S. Kundalkar
Vice President - Nuclear Engineering
Florida Power & Light Company
P.O. Box 14000
Juno Beach, FL 33408-0420

Mr. J. Kammel
Radiological Emergency
Planning Administrator
Department of Public Safety
6000 SE. Tower Drive
Stuart, Florida 34997

REQUEST FOR ADDITIONAL INFORMATION

REDUCTION IN MINIMUM REACTOR COOLANT SYSTEM FLOW AMENDMENT

FLORIDA POWER AND LIGHT

SAINT LUCIE UNIT 2

DOCKET NO. 50-389

1) In Attachment 4, on pages 2, 4 and 5 specify replacement of "DNB-SAFDL of 1.28" with "appropriate correlation limit for DNB-SAFDL." Given that there are two departure from Nucleate Boiling correlations that can be used, how do you choose which limit to use and where is that detailed?

   a) Is it true that there is now only GUARDIAN fuel in the core (Section 3.1, Attachment 6, Page 3)?

   b) Section 2 of Attachment 6 on page 2 states that the "conclusions of this evaluation remain applicable to all fuel designs currently used in the St. Lucie Unit 2 core." Do you need to use two different correlations?

   c) Are you using CE-1 and ABB-NV or McBeth? Are these approved for GUARDIAN fuel?

2) Section 2.0 of Attachment 6 on page 2 states that the flow reduction results in " . . . small coolant and fuel rod temperature increases . . ." Table 3.1-1 of Attachment 6 on page 4 includes the maximum clad surface temperature. Please explain why this did not increase with reduced flow.

3) Please clarify the meaning of the plot in Attachment 4 on page 3. Is this the axial and radial peak distribution or only the axial power distribution?

4) Demonstrate that the appropriate criteria will be met for all non-loss-of-coolant accident events. Please quantify results in your demonstration. Include a statement of the methodology used and whether there were any deviations from the methodology and treatment of uncertainties as previously approved by the staff. Please confirm that any changes in the use of the methodology continues to comply with any staff requirements for its use.

Enclosure