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 AUTH. NAME: GOLDBERG, J.H. AUTHOR AFFILIATION: Florida Power & Light Co.
 RECIPIENT AFFILIATION: Document Control Branch (Document Control Desk)

SUBJECT: Application for amend to License DPR-67, revising reactor vessel matl surveillance capsule schedule.

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OCTOBER 2 1989

L-89-357
10 CFR 50.90

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Re: St. Lucie Unit 1
Docket No. 50-335
Proposed License Amendment
Reactor Vessel Material Irradiation
Surveillance Schedule

In accordance with 10 CFR 50.90, Florida Power & Light Company submits herewith a request to amend Facility Operating License DPR-67 for St. Lucie Unit 1.

The proposed amendment revises the St. Lucie Unit 1 Technical Specifications by changing the reactor vessel material surveillance capsule schedule to correspond to the ASTM E185-82 removal intervals for fluence. Although the St. Lucie Unit 1 surveillance program was designed to meet ASTM E185-73, 10 CFR 50 Appendix H requires testing after July 26, 1983 to be performed to ASTM E185-82 to the extent possible for the program in place. In the revised surveillance schedule, fluence removal intervals were chosen as opposed to effective full power years (EFPY) removal intervals so that irradiated material in the capsules would better represent the embrittlement of the reactor at the quarter thickness (1/4 T) and inner diameter locations at end of life. The EFPY removal intervals specified in ASTM E185-82 do not allow for significant accumulation of fluence for the surveillance capsules to model these important fluence levels because of the low lead factors associated with the St. Lucie Unit 1 surveillance capsules. The low lead factors attributed to the surveillance capsules are due to the capsules being attached to the reactor vessel wall as opposed to being located closer to the reactor core. The proposed amendment will result in better predictions of reactor vessel material embrittlement for development of pressure/temperature limit curves throughout the life of the plant.

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U. S. Nuclear Regulatory Commission
L-89-357
Page two

Attachment 1 to this letter includes the proposed Technical Specifications changes. Attachment 2 is a Safety Analysis in support of the proposed amendment. Attachment 3 is a "Determination of No Significant Hazards Consideration".

The proposed amendment has been reviewed by the St. Lucie Facility Review Group and the Florida Power & Light Company Nuclear Review Board.

In accordance with 10 CFR 50.91(b)(1), a copy of the proposed amendment is being forwarded to the State Designee for the State of Florida.

NRC approval of this proposed license amendment is requested by January 15, 1990, to support surveillance capsule removal during the Winter 1990 St. Lucie Unit 1 refueling outage.

Please contact us if there are any questions about this submittal.

Very truly yours,



J. H. Goldberg
Executive Vice President

JHG/EJW/gp

Attachments

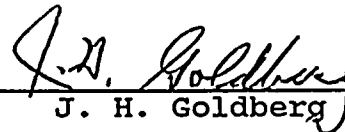
cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant
Mr. Jacob Nash, Florida Department of Health and
Rehabilitative Services

STATE OF FLORIDA)
) ss.
COUNTY OF PALM BEACH)

J. H. Goldberg being first duly sworn, deposes and says:

That he is Executive Vice President, of Florida Power and Light Company, the Licensee herein;

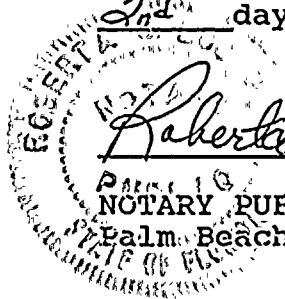
That he has executed the foregoing document; that the statements made in this document are true and correct to the best of his knowledge, information and belief, and that he is authorized to execute the document on behalf of said Licensee.

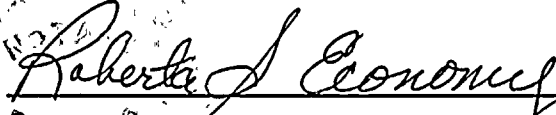


J. H. Goldberg

Subscribed and sworn to before me this

2nd day of October, 1989.





NOTARY PUBLIC, in and for the County of
Palm Beach, State of Florida

Notary Public, State of Florida
My Commission Expires June 1, 1993
Bonded Thru Troy Fain - Insurance Inc.

My Commission expires _____

