ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9104240022 DOC.DATE: 91/04/17 NOTARIZED: YES DOCKET #
FACIL:50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
AUTH.NAME AUTHOR AFFILIATION
BOHLKE,W.H. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
Document Control Branch (Document Control Desk)

SUBJECT: Application for amend to License DPR-67,deleting Tech Spec 3/4.2.2, "Total Planar Radial Peaking Factor - Ftxy."

DISTRIBUTION CODE: A001D COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 3 + 25
TITLE: OR Submittal: General Distribution

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	PD2-2 LA	1	1	PD2-2 PD	1	1
	NORRIS,J	2	2			
INTERNAL:	ACRS	6	6	NRR/DET/ECMB 9H	1	1
	NRR/DET/ESGB	1	1	NRR/DOEA/OTSB11	1	1
	NRR/DST 8E2	1	1	NRR/DST/SELB 8D	1	1
	NRR/DST/SICB 7E	1	1	NRR/DST/SRXB 8E	1	1
	NUDOCS-ABSTRACT	1	1	OC/LFMB	1	0
	OGC/HDS3	1	0	REG FILE 01	1	1
	RES/DSIR/EIB	1	1			
EXTERNAL:	NRC PDR	1	1	NSIC	1	1

R I D S / A D D S

R I D S / A D D S

NOTE TO ALL "RIDS" RECIPIENTS: A+A-2

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 24 ENCL 22

FPL

P.O. Box 14000, Juno Beach, FL 33408-0420

APRIL 17 1991

L-91-096
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
Deletion of Total Planar Radial Peaking Factor - F^T_{XY}

In accordance with 10 CFR 50.90, Florida Power & Light Company (FPL) submits herewith a request to amend Facility Operating License DPR-67 for St. Lucie Unit 1. This is a request to delete the St. Lucie Unit 1 Technical Specification 3/4.2.2 "Total Planar Radial Peaking Factor - F^T_{XY}" and all of its references.

Advanced Nuclear Fuels Corporation (ANF) had performed the setpoint analysis for St. Lucie Unit 1 reloads ANF-1 through 4 using Axial Power Distributions (APDs) generated by using a one-dimensional (1-D) core model which required the presence of an F^T_{XY} limit (Reference 1). For the ANF-5 reload (current cycle), and future reloads the APDs were and will be generated using a three-dimensional (3-D) core model (Reference 2). The use of the APDs from the 3-D core model obviates the need for the F^T_{XY} parameter because a synthesis of the 1-D axial power distribution is no longer performed. The Nuclear Regulatory Commission (NRC) has determined that the use of the 3-D core model does not constitute a methodology change (Reference 3). Thus, the deletion of the F^T_{XY} Technical Specification limit is possible because ANF's 3-D power distribution methodology does not require it.

Attachment 1 to this letter includes the proposed St. Lucie Unit 1 Technical Specification changes. Attachment 2 is a Safety Analysis in support of the proposed amendment. Attachment 3 is a "Determination of No Significant Hazards Consideration." Attachment 4 is a copy of Reference 3.

The proposed amendments have 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 amendments is being forwarded to the State Designee for the State of Florida.

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

Very truly yours,

W. H. Bohlke
Vice President
Nuclear Engineering and Licensing

WHB/JWH

Attachments

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

References:

1. Exxon Report, XN-NF-507, "ENC Setpoint Methodology for CE Reactors," dated July 1980.

2. Advanced Nuclear Fuels Report, ANF-507 (P) Addendum 1 "Advanced Nuclear Fuels Corporation Setpoint Methodology for CE Reactors: Three Dimensional Axial Power Distribution Generation," dated June 1988.

3. NRC Letter, M.W. Hodges (NRC) to R.A. Copeland (ANF), "ANF 3-dimensional Setpoint Methodology for Combustion Engineering Reactors," dated July 8, 1988.

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

W. H. Bohlke being first duly sworn, deposes and says:

That he is Vice President, Nuclear Engineering and Licensing of Florida Power & 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.

W. H. Bohlke

Subscribed and sworn to before me this 17th day of April, 19 91.

Susan M. Fey

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

My Commission expires Notary Public, State of Florida My Comm. Exp. Feb. 18, 1995 Bonded thru PICHARD Ins. Agency