REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8704010503 DOC. DATE: 87/03/27 NOTARIZED: NO DOCKET #
FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
AUTH. NAME AUTHOR AFFILIATION
WOODY, C. O. Florida Power & Light Co.
RECIP. NAME RECIPIENT AFFILIATION
Document Control Branch (Document Control Desk)

SUBJECT: Forwards response to NRC questions raised during 870219 & 23 telcon re util 860702 application for amend to License NPF-16 to establish option of storing spent fuel from Unit 1 in Unit 2 spent fuel pool.

DISTRIBUTION CODE: A001D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2
TITLE: OR Submittal: General Distribution

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	PWR-B EB	1	1	PWR-B PEICSB	2	2
	PWR-B FOB	1	1	PWR-B PD8 LA	1	0
	PWR-B PD8 PD	5	5	TOURIGNY, E	1	1
	PWR-B PEICSB	1	1	PWR-B RSB	1	1
INTERNAL:	ADM/LFMB	1	0	NRR/DHFT/TSCB	1	1
	NRR/ORAS	1	0	OGC/HDS2	1	0
	REG FILE 01	1	1			
EXTERNAL:	EG&G BRUSKE, S	1	1	LPDR	1	1
	NRC PDR	1	1	NSIC	1	1

TOTAL NUMBER OF COPIES REQUIRED: LTTR 22 ENCL 18

[illegible]

P. O. BO[illegible]1000, JUNO BEACH, FL 33408-0420

FPL

MARCH 27 1987

L-87-136

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

Gentlemen:

Re: St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
Spent Fuel Transfer

By letter L-86-250, dated July 2, 1986, Florida Power & Light Company (FPL) proposed to amend the St. Lucie Unit 2 operating license NPF-16 to establish the option of storing spent fuel from St. Lucie Unit 1 in the St. Lucie Unit 2 spent fuel pool. The Unit 1 spent fuel pool will lose full core reserve capacity as a result of the 1987 refueling outage, and the planned Unit 1 spent fuel pool rerack cannot be accomplished prior to 1988. If, in the interim, full core off-load of Unit 1 should be necessary, Unit 1 spent fuel could be stored in the Unit 2 spent fuel pool.

Additional information was requested by the staff in phone conversations on February 19 and 23, 1987. Attached is FPL's response to this information request.

If additional information is required on this topic, please contact us.

Very truly yours,

C. O. Woody
Group Vice President
Nuclear Energy

COW/EJW/gp

Attachment

cc: Dr. J. Nelson Grace, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

A001
1/1

EJW4/021/1

NRC QUESTIONS RAISED
DURING TELEPHONE CONVERSATIONS
ON FEBRUARY 19 AND FEBRUARY 23, 1987

Question

Provide the dose to Members of the Public resulting from the postulated spent fuel transfer.

Response

The dose to Members of the Public resulting from direct radiation from the postulated move is based on the following assumptions. Dose rates are based upon readings taken at FPL's Turkey Point Plant during a spent fuel transfer operation.

Contact Dose	- 120 mR/hr
Dose 1 Meter Away	- 12 mR/hr
Closest Distance fo offsite boundary	- 1000 ft.
Number of Assemblies in Cask	- 1 Assembly
Postulated Maximum Number of Assemblies to be moved	- 728 Assemblies
Duration of Time Cask outdoors	- 8 hrs/Assembly
Fuel Transfer Duration	- less than 1 year

As a result of the above, transfer of the full spent fuel pool capacity from St. Lucie Unit 1 (i.e., 728 assemblies) to St. Lucie Unit 2 results in an inconsequential dose to Members of the Public of 1.88 mRem.

The dose to Members of the Public from gaseous or particulate radiation is zero since the cask acceptance criteria requires zero pressure drop when pressurized per the cask safety analysis.