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Florida Power & Light Co.

RECIPIENT AFFILIATION

Document Control Branch (Document Control Desk)

SUBJECT: Responds to NRC 870329 request for addl info re util 860702

proposed amend to License NPF-16, establishing option of storing Unit 1 spent fuel in Unit 2 spent fuel pool.

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APRIL 28 1987

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

Gentlemen:

Re: St. Lucie Units I and 2

Docket Nos. 50-335 and 50-389

Spent Fuel Transfer - Occupational Exposure

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 lost 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 concerning occupational exposures and plant specific procedures in a letter dated March 29, 1987 (E. G. Tourigny to C. O. Woody). 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

1001 Add: R.F. Burnett

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### REQUEST FOR ADDITIONAL INFORMATION

# FLORIDA POWER & LIGHT COMPANY ST. LUCIE UNITS I AND 2 DOCKET NOS. 50-335 AND 50-389

#### SPENT FUEL TRANSFER BETWEEN UNITS

1. Provide a table showing the occupational doses to site and contractor support personnel resulting from (I) removing Unit No. I spent fuel from the Unit No. I spent fuel pool storage racks; (2) placing the spent fuel in a fuel shipping cask that meets the packaging and transportation requirements of 10 CFR 71; (3) removing the fuel shipping cask from the Unit No. I fuel handling building; (4) moving the fuel shipping cask on a transporter vehicle from fuel handling building No. I to fuel handling building No. 2 (a distance of approximately 300 feet); (5) moving the fuel shipment cask into the Unit No. 2 fuel handling building; (6) removing the spent fuel from the fuel shipping cask; and (7) placing the spent fuel in the Unit No. 2 spent fuel pool storage racks. The table should include a breakdown of each task by estimated dose rates, person-hours and person-rems.

#### Response 1

Attached is a Projected Occupational Exposure Table.

2. Confirm that Florida Power & Light Company will prepare and implement a plant-specific procedure to be used for the transfer of Unit No. I spent fuel between the units.

#### Response 2

Prior to any trans-shipment of Unit I fuel between units at St. Lucie Plant, plant-specific procedures for the trans-shipment will be prepared, reviewed and implemented.

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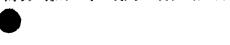












#### SPENT FUEL TRANSFER - PROJECTED

	<u>Task</u>	mR/Hr* (Estimated Dose Rate)	Person-Hrs (Estimated Task Duration)	Person-Rem*
1)	Remove PSL-I SFA from SFP Storage Rack	l to 5	0.5	0.0015
2)	Place SFA in Shipping Cask a) Unload Cask from			
ı	Transporter Vehicle	1	20	0.020
	b) Place Cask in SFP	1 to 5	3	0.009
	c) Prepare Cask to	1 40 5	4	0.012
	Receive SFA	1 to 5	4 I	0.012
	d) Place SFA in Cask	I to 5	1	0.003
3)	Remove Cask from FHB			
	<ul><li>a) Prepare Cask for Removal from SFP</li></ul>	1 to 5	2	0.006
	b) Remove Cask from SFP,			
	Decontaminate	1 to 10	10	0.050
	c) Place Cask on Transporter			
	Vehicle	1	20	0.020
4)	Transport Cask with SFA to PSL-2 FHB (300 ft)	1	0.2	0.0002
5)	Move Cask with SFA into PSL-2 FHB			
	a) Unload Cask from Transporter Vehicle	1 to 10	10	0.050
	b) Place Cask in SFP	1 to 5	3	0.009
6)	Remove SFA from Cask	1 to 5	4	0.012

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# Spent Fuel Transfer - Projected Occupational Exposure Table (cont)

<u>Task</u>		mR/Hr* (Estimated ` Dose Rate)	Person-Hrs (Estimated Task Duration)	Person-Rem*
7) Place SFA	in SFP			
Storage Ra	ck			
a) Remove	SFA from Cask	1 to 5	1	0.003
b) Prepare	Cask for			
Remov	al from SFP	1 to 5	2	0.006
c) Remove	Cask from SFP,			
Decon	taminate ,	. 1 to 5	10	0.030
d) Place Cask on Transporter				
Vehicle	е	I	20	0.020
e) Return	Transporter			
Vehicle	e to PSL-I FHB	1	0.2	0.0002
TOTAL			110.9	0.2519

Approximate Person-Rem per SFA Transferred - 252 mRem

#### **Abbreviations**

FHB - Fuel Handling Building

PSL-I - St. Lucie Unit I

PSL-2 - St. Lucie Unit 2

SFA - Spent Fuel Assembly

SFP - Spent Fuel Pool

<sup>\*</sup>For variable estimated dose rates, the Person-Rem Exposure is calculated by using the average of the Estimated Dose Rate.

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