

50-335

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FILE NUMBER

TO: Dennis L. Ziemann,

FROM: TPL

Miami, FL. 33101
Robert E. Uhrig

DATE OF DOCUMENT

03-21-77

DATE RECEIVED

03-25-77

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DESCRIPTION

Ltr. Ref. our 01-17-77 ltr and their 10-17-77 ltr...Furnishing info regarding the ability of St. Lucie Unit #1 and others to accommodate a refueling accident within containment...

(2 pages)

ACKNOWLEDGED

PLANT NAME: ST LUCIE UNIT # 1
jcm

DO NOT REMOVE

ENCLOSURE

SAFETY

FOR ACTION/INFORMATION

ENVIRO

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

LIC. ASST. :

Ziemann (5)
Silver
Diggs

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

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INTERNAL DISTRIBUTION

REG FILE

NRC PDR

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OPERATING REACTORS

STELLO

SITE SAFETY &

ENVIRO ANALYSIS

DENTON & MULLER

ENVIRO TECH.

ERNST

BALLARD

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REG V.IE

LA PDR

CONSULTANTS:

BROOKHAVEN NAT. LAB.

ULRIKSON (ORNL)

770870208 MAY
(51)



1-2

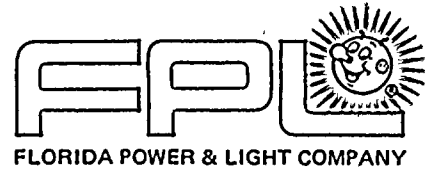
1. The first part of the document is a list of names and addresses. The names are: John Doe, Jane Doe, and John Doe. The addresses are: 123 Main St, 456 Main St, and 789 Main St.

2. The second part of the document is a list of names and addresses. The names are: John Doe, Jane Doe, and John Doe. The addresses are: 123 Main St, 456 Main St, and 789 Main St.

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4.

REGULATORY DOCKET FILE COPY



March 21, 1977
L-77-85

Office of Nuclear Reactor Regulation
Attn: Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555



Dear Mr. Ziemann,

Re: St. Lucie Unit 1
Docket No. 50-335
Postulated Refueling Accident

Your letter of 17 January 1977, relayed to us a concern expressed by Mr. Robert D. Pollard regarding the ability of St. Lucie Unit No. 1 and others to accommodate a refueling accident within containment. This issue was previously reviewed by the Staff during the development of the St Lucie Unit No. 1 Technical Specifications. (See Florida Power & Light Company letter L-75-506 dated 17 October 1975, at item 42 of the attachment.) The upper limit dose was evaluated and provided at that time. The maximum thyroid dose is 40 rem and the corresponding whole body dose is 0.17 rem, which are small fractions of the 10 CFR 100 guideline limits of 300 rem thyroid and 25 rem whole body. The principal assumptions used in this evaluation were in accordance with Regulatory Guide 1.25 and are as follows:

- i) A rupture of an entire fuel assembly and release of the gap inventory in accordance with RG 1.25 was assumed.
- ii) The effective DF of shielding water was 100 for iodine and 1 for Kr-85.
- iii) No credit for dilution or mixing within the containment or reactor shield building annulus was assumed.
- iv) No credit for charcoal filters was assumed.
- v) Containment isolation was not assumed.
- vi) The 2-hour accident meteorological dilution factor was assumed.

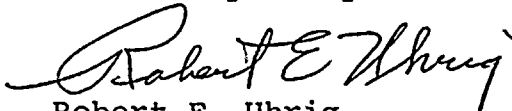
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To: Dennis L. Ziemann, NRC
Re: St. Lucie Unit No. 1
Docket No. 50-335
Postulated Refueling Accident

March 21, 1977
Page 2

Since the bounding evaluation assumed that radionuclides emerging from the pool are transported immediately to the receptor under adverse meteorological conditions with the resultant doses being small fractions of 10 CFR 100 guideline values, and a more realistic evaluation would yield significantly smaller doses, Mr. Pollard's concern is clearly not relevant to the St. Lucie facility. Accordingly, we believe further evaluation of this issue is unwarranted. If you require any additional clarifying data, we would be pleased to furnish it.

Yours very truly,



Robert E. Uhrig
Vice President

REU/LLL/bb

1971 MAR 26 AM 8 30

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