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LTR 1 ENCL 1

LICENSEE EVENT REPT 50-335/78-25 ON 07/24/78 CONCERNING AN ERROR IN THE ANALYSIS FOR THE CASK DROP ACCIDENT WHICH MAKES THE TECH SPEC 3. 9. 14

NON-CONSERVATIVE.

PLANT NAME: ST LUCIE #1

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782230377

THE END

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FLORIDA POWER & LIGHT COMPANY

August_7, 1978; PRN-LI€78-219€ জ

Mr. James P. O'Reilly, Director, Region II Office of Inspection and Enforcement. U. S. Nuclear Regulatory Commission 230 Peachtree Street, N. W., Suite 1217 Atlanta, Georgia 30303

Dear Mr. O'Reilly:

REPORTABLE OCCURRENCE 335-78-25 ST. LUCIE UNIT 1 DATE OF OCCURRENCE: JULY 24, 1978

CASK DROP ANALYSIS

The attached Licensee Event Report is being submitted in accordance with Technical Specification 6.9 to provide prompt notification of the subject occurrence.

Very truly yours,

A. D. Schmidt Vice President Power Resources

MAS/ms

Attachment

Harold F. Reis, Esquire Director, Office of Inspection and Enforcement (40) Director, Office of Management Information and

Program Control (3)

782230377

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PEOPLE ... SERVING PEOPLE

LICENSEE EVENT REPORT

	CONTROL BLOCK:
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CONT	SOURCE [X 6 0 5 0 0 0 0 13 3 5 7 0 17 2 4 7 8 3 0 8 0 7 7 8 9
0 2	Because of an error in the analysis for the cask drop accident, T.S.
03	3.9.14 is non-conservative. It has been determined that a dropped cask
04	could impact a larger radius, therefore, a longer decay time is needed
0 5	before a cask can be moved into the spent fuel pool cask compartment.
0 3	There are no adverse consequences because of the small amount of fuel in
07	the pool and the high degree of conservatism in the analysis.
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<u></u>	SYSTEM CAUSE CAUSE COMPONENT CODE SUBCODE SUBC
	LERIRO EVENTYEAR SEQUENTIAL SECUENTIAL SECUE
	ACTION FUTURE OFFICAT SHUTCOWN HOURS 22 ATTACHMENT NORM SUB. FRIME COMP. COMPONENT TAKEN ACTION COMPONENT SUBMITTED FORM SUB. SUPPLIER VANUE ACTUARE TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10	The cask drop was not analyzed in accordance with FSAR methodology, there-
	by leading to a non-conservative basis for T.S. 3.9.14. A bounding analy-
13	sis has been performed and will be administratively applied in case use of
	the spent fuel cask is required before a proposed Technical Specification
	amendment can be submitted and approved by the NRC.
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15	amendment can be submitted and approved by the NRC. A POWER OTHER STATUS OTHER STATUS OSCOVERY DESCRIPTION OSCOVERY DESCRIPTIO
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115	amendment can be submitted and approved by the NRC. Solution of Accounts and the submitted and approved by the NRC. Solution of Accounts and the submitted and approved by the NRC. Solution of Accounts and the submitted and approved by the NRC. Solution of Accounts and the submitted and approved by the NRC. Solution of Accounts and the submitted and approved by the NRC. Solution of Accounts and Accounts an
1 5 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 7	amendment can be submitted and approved by the NRC. A POWER OTHER STATUS ODISCOVERY DESCRIPTION ODISCOVERY DISCOVERY DISCO

Reportable Occurrence 335-78-25 Licensee Event Report Page Two

Additional Event Description

During power operation, the Architect/Engineer found an error in the accident analysis for the drop of a spent fuel cask into the spent fuel pool. As a result of the error, Specification 3.9.14 on spent fuel handling is non-conservative. The analysis was originally performed assuming a single pendulum, which gave a drop radius of 133 inches. The FSAR methodology, however, specifies a double pendulum, which gives a drop radius of 248 inches. This means that a dropped cask could impact more fuel elements, therefore, "fresh" spent fuel must be stored farther from the cask area and/or allowed to decay longer before the cask can be moved into the spent fuel pool. The probable consequences of the occurrence are not significant because fuel was stored in the pool for only 2 months before the error was found, and there is considerable conservatism in the dose rate analysis for the cask drop accident. This was the first occurrence involving a calculational error associated with a spent fuel system.