



Florida Power & Light Company, 6501 S. Ocean Drive, Jensen Beach, FL 34957

December 11, 2003

L-2003-309  
10 CFR 50.90

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

RE: St. Lucie Units 1 and 2  
Docket Nos. 50-335 and 50-389  
Proposed License Amendments - Supplement  
Spent Fuel Crane Requirements Relocation

By letter L-2002-111 dated July 18, 2002, Florida Power & Light Company (FPL) submitted proposed license amendments that requested relocation of Technical Specifications concerning the spent fuel cranes and cask cranes to the respective units' Updated Final Safety Analysis Report (UFSAR). Once relocated to the UFSAR, these requirements would be controlled in accordance with Title 10 to the Code of Federal Regulation, Section 50.59.

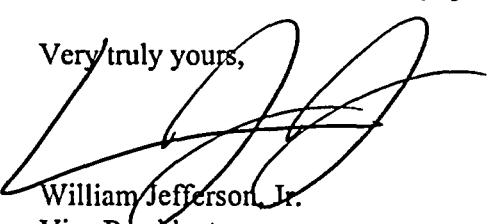
By letter dated October 29, 2002, the Nuclear Regulatory Commission (NRC) staff requested additional information to support their review of the submittal. The FPL response to this request was submitted in FPL letter L-2002-228 dated November 14, 2002.

In a teleconference between NRC and FPL on September 9, 2003, the NRC staff requested that FPL provide a letter certifying that the replacement cask cranes currently being installed at St. Lucie Units 1 and 2 will be designed, installed, and load-tested to the single-failure-proof criteria of NUREG-0554 under 10 CFR 50.59. The requested certification is enclosed.

In addition to the requested certification, the attachment: (1) identifies other licensees with similar single-failure-proof cranes manufactured by the St. Lucie crane vendor, (2) discusses the schedule for installing the new cranes relative to the proposed schedule for implementing the requested Technical Specification changes, and (3) discusses FPL's intention to remove the cask drop accident from the plant licensing basis after the replacement cranes are installed and operational.

Please contact us if there are any questions about this letter and its attachment.

Very truly yours,

  
William Jefferson Jr.  
Vice President  
St. Lucie Plant

Attachment

cc: Mr. W. A. Passetti, Florida Department of Health

A001

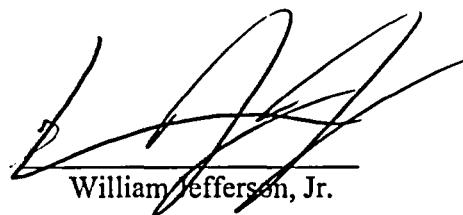
St. Lucie Units 1 and 2  
Docket Nos. 50-335 and 50-389  
L-2003-309 Page 2

STATE OF FLORIDA )  
COUNTY OF ST. LUCIE )ss.  
                       )

William Jefferson, Jr., being first duly sworn, deposes and says:

That he is Vice President, St. Lucie Plant, of Florida Power and 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.



William Jefferson, Jr.

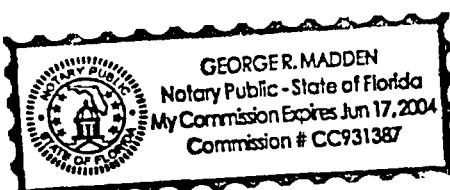
Subscribed and sworn to before me this

11 day of December, 2003.



Name of Notary Public (Type or Print)

William Jefferson, Jr., is personally known to me.



**St. Lucie Units 1 and 2  
Docket Nos. 50-335 and 50-389  
L-2003-309 Attachment Page 1**

**St. Lucie Units 1 and 2 Replacement Cask Cranes  
Information/Certification Statement**

St. Lucie Units 1 and 2  
Docket Nos. 50-335 and 50-389  
L-2003-309 Attachment Page 2

**St. Lucie Units 1 and 2 Replacement Cask Cranes  
Information/Certification Statement**

**Background**

The St. Lucie Units 1 and 2 cask cranes have been replaced. The original cranes were dismantled and removed, and two new cranes (one per unit) were installed in the fourth quarter of 2003. The cranes are located out-of-doors, supported by a superstructure above the north end of the respective unit's fuel handling building (FHB). The crane primary function is to transfer shielded casks containing spent fuel between the cask pit area in the FHB northeast corner and the outside laydown area.

The new cranes are manufactured by American Crane and Equipment Co. (ACECO) and are each rated for a maximum critical load of 150 tons.

**Other licensees with similar cranes**

ACECO single-failure-proof cranes have been installed at Oyster Creek and Palo Verde. In 2001, the NRC reviewed the Oyster Creek crane design in conjunction with a proposed license amendment to delete Technical Specifications (TS) that restricted movement of heavy loads over spent fuel in the spent fuel storage pool. The amendment was issued January 23, 2002, and credited the single-failure-proof crane design as the basis for allowing the heavy load TS to be removed.

At Palo Verde, single-failure-proof cranes were recently installed under 10 CFR 50.59. Similar to Palo Verde, FPL installed the St. Lucie replacement cask cranes under 10 CFR 50.59.

**Crane replacement schedule**

The replacement cask cranes for both St. Lucie units were installed in the fourth quarter of 2003. The crane load restrictions of Unit 1 TS 3.9.13 (25 tons) and Unit 2 TS 3.9.12 (100 tons) will continue to apply until they have been removed from the Technical Specifications.

**Certification of single-failure-proof crane design**

The main hoist for each replacement crane meets the applicable regulatory guidance for single-failure-proof handling systems found in NUREG-0612, "Control of Heavy Loads at Nuclear Power Plants." Section 5.1.6 of NUREG-0612 refers to NUREG-0554, "Single-Failure-Proof Cranes for Nuclear Power Plants," for guidance in the design, fabrication, installation, and testing of new cranes.

A matrix demonstrating specific compliance with each section of NUREG-0554 has been prepared, reviewed, and approved.

The NUREG-0554 compliance matrix is similar to the Oyster Creek NUREG-0554 compliance matrix provided to NRC in AmerGen Letter 2130-01-20211 dated October 12, 2001. The St.

St. Lucie Units 1 and 2  
Docket Nos. 50-335 and 50-389  
L-2003-309 Attachment Page 3

Lucie cask crane compliance matrix concludes that the replacement cranes fully meet the regulatory guidance in NUREG-0554 for single-failure-proof cranes.

The new cranes have been load tested for the maximum critical load of 150 tons. The cranes were successfully load tested at the factory, and a final load test was successfully conducted after installation.

The cranes have been designed, fabricated, installed, and tested to the guidance of NUREG-0554 and the applicable St. Lucie design bases, including the appropriate seismic criteria. The design is classified as Nuclear Safety Related and documentation will be recorded under FPL's 10 CFR 50, Appendix B, Quality Assurance Program.

Removing cask drop analysis from licensing basis

With the new single-failure-proof cranes installed, FPL intends to revise the Updated Final Safety Analysis Report (UFSAR) for each St. Lucie unit to remove the cask drop accident from the licensing basis. The cask drop analysis may be retained in the UFSAR as historical information.