

May 10, 2000

Mr. John Paul Cowan
Vice President, Nuclear Operations
Florida Power Corporation
ATTN: Manager, Nuclear Licensing (NA1B)
Crystal River Energy Complex
15760 W. Power Line Street
Crystal River, Florida 34428-6708

SUBJECT: CRYSTAL RIVER UNIT 3 - REQUEST FOR ADDITIONAL INFORMATION -
ENHANCED SPENT FUEL POOL STORAGE AMENDMENT (TAC NO.
MA6754)

Dear Mr. Cowan:

In a letter dated September 16, 1999, Florida Power Corporation requested an amendment to the Crystal River Unit 3 (CR-3) operating license. The request proposed to increase the licensed capacity for spent fuel assembly storage in the CR-3 spent fuel pool and revise the configuration for storage of fresh fuel. In order to complete our review of the heavy loads movement issues relating to this request, we require additional information as specified in the enclosure to this letter. Please provide the requested information within 30 days of receipt of this letter. This Request for Additional Information and requested submittal date were discussed with Mr. Ronald Rogers of your staff.

Sincerely,

/RA by R. Martin Backup for/

Leonard A. Wiens, Senior Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket: 50-302

Enclosure: Request for Additional Information

cc w/encl: See next page

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REQUEST FOR ADDITIONAL INFORMATION
RELATED TO LICENSE AMENDMENT REQUEST NO. 239
TO SUPPORT EXPANSION OF THE SPENT FUEL POOL STORAGE CAPACITY
CRYSTAL RIVER UNIT 3

1. In accordance with recommendations provided in NUREG-0612, Section 5.1, discuss the potential for accidental dropping of a postulated vertical rack drop onto another rack and onto the spent fuel pool (SFP) floor from the maximum lift height of the rack. Address using the heaviest rack to be lifted over or in proximity to SFP A and B. Discuss how the potential rack drop and consequences are managed in order to preclude SFP water leakage that could uncover fuel in the pool. Address the potential damage to the SFP liner and concrete slab, and any leakage of SFP inventory beyond the SFP liner. Discuss the capability to manage the leakage including the capability to isolate the leakage and/or provide makeup to the SFP, the leakage rate, sources of makeup and the makeup rate. Also address the potential impact of a rack drop on maintaining specified criticality factors.
2. The License Amendment Request stated that the existing Auxiliary Building overhead crane will be used to lift the rack from the auxiliary building bay and up through the equipment hatch. Once the rack module is on the operating floor, a 20-ton hoist will be coupled to the hook of the overhead crane and used to move the spent fuel storage racks. Also special lifting and rigging devices will be used to remotely move and lower the spent fuel storage rack modules into position.

Discuss the qualifications of both the auxiliary building overhead crane and the 20-ton hoist, including design and testing, to lift the racks over the SFP. Discuss the safe load path for moving the racks to the SFP. Describe all the special lifting and rigging devices used to handle the spent fuel storage rack modules including testing criteria used to verify the reliability of the devices, and cite the source of the criteria.
3. How will the new racks affect future cask handling operations?

ENCLOSURE

Mr. John Paul Cowan
Florida Power Corporation

CRYSTAL RIVER UNIT NO. 3

cc:

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