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January 22, 1975

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Re: In the Matter of Florida Power & Light Company (St. Lucie
Nuclear Power Plant Unit No. 2 - Docket No. 50-389).

Dear Members of the Board:

On January 6, 1975, the Commission amended its regulations with respect to the environmental effects of transportation of nuclear fuel and waste to and from nuclear power plants. The amendment sets forth a table of values which are considered by the Commission to be the environmental impacts of such transportation to and from certain types of nuclear power reactors. (10 CFR 51.20(g), Table S-4, 40 Fed. Reg. 1009, January 6, 1975.) The rule is applicable to reactors which meet the five conditions listed therein. (10 CFR 51.20(g)(2), 40 Fed. Reg. 1008.) It becomes effective on February 5, 1975.

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Members of the Board

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January 22, 1975

This letter is to inform the Board that, as stated in the Attachment hereto, St. Lucie No. 2 meets all of the conditions of 10 CFR 51.20(g)(2). All of the documents referenced in the Attachment are in the evidentiary record of this proceeding, except for the Response to Intervenor's Interrogatory No. 91. That response was made under oath as required by 10 CFR §2.740b(b). Applicant requests that the response be received in evidence as Applicant's exhibit. Three copies are provided for this purpose.

Applicant does not believe that the environmental impacts discussed in Section 5.4.4.2 and 7.2, and Tables 5.4 and 7.3 of the FES differ significantly from those in Table S-4 of the rule. However, Applicant requests that Table S-4 be taken into account in the Board's NEPA cost-benefit analysis in its Partial Initial Decision in order to assure compliance with regulations which may become applicable during any appeal of that Decision. See, Potomac Electric Power Co. (Douglas Point Nuclear Generating Station, Units 1 and 2), ALAB-218, RAI-74-7, 79, 82-83 (July 15, 1974), cited with approval, Philadelphia Electric Co. (Peach Bottom Atomic Power Station, Units 2 and 3), CLI-74-32, RAI-74-8, 217 (August 8, 1974).

Respectfully submitted,

LOWENSTEIN, NEWMAN, REIS
& AXELRAD

Co-Counsel for Applicant

By


Harold F. Reis

Information for St. Lucie 2 with Regard to
10 CFR 51.20 (g) (2)

- i. The rated NSSS power level is 2570 MWt. The design thermal power level is 2700 MW, the maximum expected output of the NSSS. (PSAR Sec. 1.1)
- ii. The reactor fuel is in the form of sintered uranium dioxide pellets encapsulated in zircaloy-4 rods. (PSAR Sec. 4.2.1.1.1) The maximum batch enrichment of uranium-235 is 3.0 wt%. (PSAR Table 4.2-1)
- iii. The average burnup of the irradiated fuel from the reactor will be about 30,000 MWD/MTU over the three cycle life of the fuel. (PSAR Sec. 4.1) The irradiated fuel discharged from the reactor will be stored on-site for 4 to 6 months prior to shipping to allow proper cooling (Response to Intervenor's Interrogatories to Applicant - Set No. 1, No. 91).
- iv. Waste other than irradiated fuel shipped from the reactor will be in the form of packaged solid wastes. (PSAR Sec. 11.5.5)
- v. Unirradiated fuel is to be shipped to the reactor by truck. (ER, Sec. 5.3.4.2a) It is planned that irradiated fuel will be transported from the reactor by truck. (ER, Sec. 5.3.4.2b) Waste other than irradiated fuel will be shipped from the reactor by truck. (PSAR Sec. 11.5.7)

91. What will become of spent fuel once removed from the reactor vessel?

Answer:

After the spent fuel is removed from the reactor vessel, it is transferred under water from the containment to the fuel handling building fuel pool where it is stored in racks for cooling and decay of the fission products for a period of 4 to 6 months.

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Answer:

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CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing letter, (including attachment and enclosure) dated January 22, 1975, have been served on the following by deposit in the United States mail, first class or air mail, this 22nd day of January, 1975.

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