

50-302

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TO: Mr Stolz

FROM: Fla Pwr Corp  
St Petersburg, Fla  
J T Rodgers

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ENCLOSURE

Info concerning integrated Irradiation Program  
for Reactor Vessel Surveillance Specimens.....

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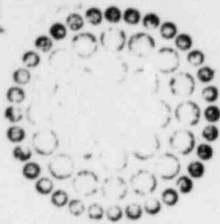
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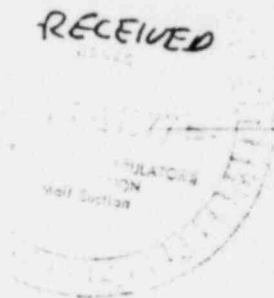
Regulatory Docket File

**Florida  
Power**  
CORPORATION



November 5, 1976

Mr. John Stolz  
Branch Chief  
Light Water Reactors Branch I  
Division of Project Management  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555



Subject: Crystal River Unit 3,  
Docket No. 50-302,  
Integrated Irradiation Program for Reactor  
Vessel Surveillance Specimens

Dear Mr. Stolz:

Florida Power Corporation letter dated September 28, 1976, regarding the surveillance program for reactor vessel surveillance specimens for Crystal River Unit 3 (CR-3), indicated that installation of surveillance capsules in CR-3 would be deferred until the first refueling. We have reviewed this matter further, and concluded that we will install two surveillance capsules at this time, for irradiation during the first fuel cycle. Additional capsules will, of course, be installed at the first refueling as previously discussed with you.

We consider the above approach to meet the requirements of Appendix H of 10CFR50. The planned capsule installation and removal schedule meeting Appendix H requirements is shown on Table 1. A capsule installed at initial fuel load will be removed at the first refueling and tested as required by the Appendix H, Paragraph II. C. 3. c withdrawal schedule which requires a capsule to be removed at that time.

The capsules loaded at the initial fuel load will be those containing fracture mechanics type specimens of weld materials, as well as normal tensile and Charpy specimens (see Table 2, attached). These capsules are the capsules which NRC has previously approved for use in CR-3.

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As indicated above, we consider the above described surveillance capsule irradiation schedule to meet 10CFR50, Appendix H, requirements. If you have any comments on it, we would appreciate receiving them as soon as possible.

Very truly yours,


  
J. T. Rodgers  
Asst. Vice President

TABLE 1

REACTOR VESSEL MATERIAL IRRADIATION SCHEDULE

<u>Specimen</u>	<u>Installation</u>	<u>Removal</u>
1. Capsule A	End of First Cycle	Standby
2. Capsule C	End of First Cycle	End of 11th Cycle
3. Capsule E	End of First Cycle	End of 7th Cycle
4. Capsule B	Initial Fuel Load	End of 1st Cycle
5. Capsule D	Initial Fuel Load	End of 6th Cycle
6. Capsule F	End of First Cycle	End of 3rd Cycle

Note: Capsules B, D and F contain compact tension specimens as well as Charpy and tensile specimens.

TABLE 2

CONTENTS OF EACH OF TWO CAPSULES  
TO BE INSTALLED AT INITIAL FUEL LOADING

<u>Material Description</u>	<u>Number of Specimens</u>		
	<u>Tensile</u>	<u>Charpy</u>	<u>1/2 TCT</u>
1. Weld Metal, WF-209	2	12	8
2. Weld-HAZ Heat C4344-1-transverse	0	12	0
3. Base Material Heat C4344-2-transverse	<u>2</u>	<u>12</u>	<u>0</u>
Total per Capsule	4	36	8