



Florida Power
A Progress Energy Company

Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72

Ref: 10 CFR 50.90

November 13, 2002
3F1102-06

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Subject: Crystal River Unit 3 – Response to Request for Additional Information Re: Proposed License Amendment Request #270, Revision 0, “Power Uprate to 2568 MWt” (TAC No. MB5289)

- References:
1. FPC letter to NRC, dated June 5, 2002, Crystal River Unit 3 – License Amendment Request #270, Revision 0, “Power Uprate to 2568 MWt”
 2. FPC letter to NRC, dated September 30, 2002, Crystal River Unit 3 – Response to Request for Additional Information Re: Proposed License Amendment Request #270, Revision 0, “Power Uprate to 2568 MWt” (TAC No. MB5289)

Dear Sir:

During a conference call on November 7, 2002, the NRC staff made a request for additional information (RAI) regarding Florida Power Corporation’s (FPC) proposed License Amendment Request #270, “Power Uprate to 2568 MWt” (Reference 1), and the previous RAI response (Reference 2). The Attachment to this letter provides the response to this request.

This letter makes no new regulatory commitments.

If you have any questions regarding this submittal, please contact Mr. Sid Powell, Supervisor, Licensing and Regulatory Programs at (352) 563-4883.

Sincerely,

Dale E. Young
Vice President
Crystal River Nuclear Plant

DEY/pei

Attachment: Response to Request for Additional Information


xc: Regional Administrator, Region II
Senior Resident Inspector
NRR Project Manager

A001

STATE OF FLORIDA

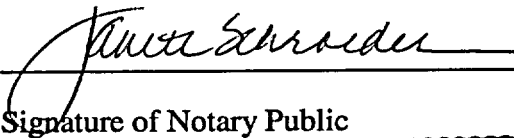
COUNTY OF CITRUS

Dale E. Young states that he is the Vice President, Crystal River Nuclear Plant for Progress Energy; that he is authorized on the part of said company to sign and file with the Nuclear Regulatory Commission the information attached hereto; and that all such statements made and matters set forth therein are true and correct to the best of his knowledge, information, and belief.



Dale E. Young
Vice President
Crystal River Nuclear Plant

The foregoing document was acknowledged before me this 13th day of November, 2002, by Dale E. Young.



Signature of Notary Public
State of Florida



(Print, type, or stamp Commissioned
Name of Notary Public)

Personally Known -OR- Produced Identification

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

DOCKET NUMBER 50 - 302 / LICENSE NUMBER DPR - 72

ATTACHMENT

**Response To Request For Additional Information Re: Proposed License
Amendment Request #270, Revision 0, Power Uprate to 2568 MWt**

Response to Request for Additional Information

Response to Request for Additional Information

NRC Request (per conference call November 7, 2002)

In a previous response to an NRC request for additional information (RAI), dated September 30, 2002, FPC stated in Question 2.b that there had been no significant design changes in the fuel assembly spacer grid since the critical heat flux tests were performed. What modifications have been made and why were they determined not to be significant?

FPC Response

The Mark-B series fuel assemblies have used the same spacer grid design (BZ grid) since the 1980's. Only one modification has been made to this design since the critical heat flux (CHF) tests. This change involved replacing the then existing wrap-around weld joint at the corner of the spacer grid with a precision laser butt-weld joint. The corner weld was changed to reduce the chance of catching on other assemblies during fuel moves. This modification does not impact the geometry of the inner portions of the spacer grid and, therefore, does not impact the flow or heat transfer properties of the assembly. This modification was considered to have an insignificant impact on the CHF test results. Therefore, the BWC correlation remains valid for the Crystal River Unit 3 Cycle 13 core design.