



Crystal River Nuclear Plant  
Docket No. 50-302  
Operating License No. DPR-72

Ref: 10 CFR 50.55a

October 23, 2007  
3F1007-07

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

Subject: Crystal River Unit 3 – Response to Request for Additional Information Regarding Relief Request #07-003-RR, Revision 1

- References:
1. Crystal River Unit 3 to NRC letter dated September 13, 2007, “Crystal River Unit 3 - Relief Request #07-003-RR, Revision 1, and Response to Request for Additional Information”
  2. Crystal River Unit 3 to NRC letter dated May 15, 2007, “Crystal River Unit 3 – Relief Request #07-003-RR, Revision 0”

Dear Sir:

Pursuant to 10 CFR 50.55a(a)(3)(i), Florida Power Corporation (FPC) doing business as Progress Energy Florida, Inc., is hereby submitting the response to a Nuclear Regulatory Commission (NRC) request for additional information (RAI) received by email on October 2, 2007. This RAI response is based on Relief Request #07-003-RR, Revision 1 (Reference 1).

No regulatory commitments are being made in this submittal.

If you have any questions regarding this submittal, please contact Mr. Dennis Herrin, Acting Supervisor, Licensing and Regulatory Programs at (352) 563-4633.

Sincerely,

Stephen J. Cahill  
Engineering Manager

SJC/seb

Attachment: Response to Request for Additional Information

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

A047

NRR

**PROGRESS ENERGY FLORIDA, INC.**

**CRYSTAL RIVER UNIT 3**

**DOCKET NUMBER 50 - 302 / LICENSE NUMBER DPR - 72**

**ATTACHMENT**

**RELIEF REQUEST #07-003-RR, REVISION 1**

**Response to Request for Additional Information**

## Response to Request for Additional Information

### NRC Request

**(1) Clarify that you are using t1 when evaluating flaws in the overlay above any material susceptible to PWSCC, i.e. Alloy 82, Alloy 182, or Alloy 600.**

### FPC Response

*(1) t1 is planned to be used for evaluating flaws in the overlay above any material susceptible to Primary Water Stress Corrosion Cracking (PWSCC), i.e., Alloy 82, Alloy 182, or Alloy 600.*

### NRC Request

**(2) Clarify that the code editions referred to in Attachment 3 of the RR are the 2001 Edition through the 2003 Addenda, not the 2004 Edition with the 2006 Addenda. The staff has not approved the later Codes yet.**

### FPC Response

(2) The reference to Section XI, 2004 Edition, 2006 Addenda, in Attachment 3 of Reference 1, is to be used in conjunction with Table 1 therein. This does not imply that this version of Section XI is applicable for the Structural Weld Overlay (SWOL) activities.

As stated in Reference 1, Attachment 1 Section 5, Section XI 1989 Edition, no Addenda and 1995 Edition including Addenda through 1996 Supplement 11 are applicable, as modified by the relevant alternatives in the revised Relief Request.

### NRC Request

**(3) The staff position is that the full metal thickness (e.g., the thickness of the nozzle), not the thickness of the overlay, is to be used to determine if the weld is exempt from PWHT requirements. Clarify that temper bead welding is required and, unless specific exemption is requested, that all provisions of the temper bead welding will be complied with, including the hold on NDE until 48 hours after completion of the 3rd temper bead layer.**

### FPC Response

(3) Temper bead welding is required and will be performed on all overlay welds. All provisions of the temper bead welding will be complied with including the hold on non destructive examination (NDE) until 48 hours after completion of the 3<sup>rd</sup> temper bead layer.