

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

DOCKET NUMBER 50-302 /LICENSE NUMBER DPR-72

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

ATTACHMENT B

**RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
REQUIRED FOR THE DEVELOPMENT OF THE
CONFIRMATORY LOCA AND NON-LOCA MODELS**

(~~PROPRIETARY~~)

**Response to Request for Additional Information Required for the Development of the
Confirmatory LOCA and non-LOCA Models (Proprietary)**

Florida Power Corporation (FPC), doing business as Progress Energy Florida, Inc. hereby provides a response to a request for additional information (RAI) required for the development of confirmatory Loss of Coolant Accident (LOCA) and non-LOCA models for the Crystal River Unit 3 (CR-3) Extended Power Uprate (EPU). Below is the NRC RAI that was forwarded to CR-3 by electronic mail on February 17, 2011.

NRC Item 5

Updated RELAP LOCA decks, if any, supporting the EPU application

CR-3 Response

The following three files are attached (see the enclosed CD-ROM):

- cr3_epu_lbloca.inp [*Large Break LOCA input deck*]
- cr3_epu_sbloca.inp [*Small Break LOCA input deck*]
- LOCA Input Deck Revision 003.docx

NRC Item 6

AREVA's RELAP decks supporting the non-LOCA Analysis Report(s)

CR-3 Response

The following eight files are attached (see the enclosed CD-ROM):

- 20hpiMtc.in [*Main Steam Line Break base input deck*]
- 20hpiMtr.in [*Main Steam Line Break restart input deck*]
- cr3eputt.in [*Turbine Trip input deck*]
- flbtr01.in [*Feedwater Line Break input deck – with no pressurizer spray*]
- flbtr02.in [*Feedwater Line Break input deck – with pressurizer spray*]
- FWLB Plots.pdf
- Input Decks and Pressurizer Spray in FWLB.docx
- MSLB Plots.pdf

NRC Item 7

More detailed nodding diagram for the MFWLB non-LOCA transient

CR-3 Response

The following two nodding diagrams are attached (see the enclosed CD-ROM):

- FWLB Break Noding.pdf
- FWLB MFW Noding.pdf

NRC Item 8

Pressurizer heater and spray operation for the MFWLB non-LOCA transient

CR-3 Response

The following file is attached (see the enclosed CD-ROM):

- Input Decks and Pressurizer Spray in FWLB.docx