



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

Ref: 10CFR50.46

December 5, 2006  
3F1206-06

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

Subject: Crystal River Unit 3 – 10 CFR 50.46 Loss-Of-Coolant Accident Evaluation Model Change and Peak Cladding Temperature Change Report

Reference: Letter from PEF to NRC, dated December 12, 2005 – Crystal River Unit 3 – 10 CFR 50.46 Loss-Of-Coolant Accident Evaluation Model Change and Peak Clad Temperature Change Report

Dear Sir:

Florida Power Corporation, doing business as Progress Energy Florida, Inc. (PEF), is providing the attached information pursuant to 10 CFR 50.46(a)(3)(ii). There have been no changes to the peak cladding temperature (PCT) for Crystal River Unit 3 since the last report was submitted in the above reference letter. Tables stating the PCT for large break and small break loss-of-coolant accidents (LBLOCA and SBLOCA, respectively) are included in the attachment.

If you have any questions regarding this submittal, please contact Mr. Paul Infanger, Supervisor, Licensing and Regulatory Programs at (352) 563-4796.

Sincerely,

Michael J. Annacone  
Manager Engineering

MJA/dar

Attachment: Summary of Changes to Evaluation Models and PCT for LBLOCA and SBLOCA

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

Progress Energy Florida, Inc.  
Crystal River Nuclear Plant  
15760 W. Powerline Street  
Crystal River, FL 34428

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PROGRESS ENERGY FLORIDA, INC.

CRYSTAL RIVER UNIT 3

DOCKET NUMBER 50-302/LICENSE NUMBER DPR-72

ATTACHMENT

Summary of Changes to Evaluation Models and PCT for  
LBLOCA and SBLOCA

<b>CR3 LB LOCA PCT Change Summary for 2006 Annual Report</b>				
	<b>Delta PCT</b>		<b>PCT</b>	
	Mark B10	Mark B-HTP	Mark B10	Mark B-HTP
Fuel Design	Mark B10	Mark B-HTP	Mark B10	Mark B-HTP
Previously Reported PCT (2005 Change Report dated 12/12/05)	N/A	N/A	1937	2023
Changes or Errors since last report	None	None	1937	2023
Cumulative Change	0	0		
Sum of absolute magnitude of changes	0	0		

<b>CR3 SB LOCA PCT Change Summary for 2006 Annual Report</b>				
	<b>Delta PCT</b>		<b>PCT</b>	
	Mark B10	Mark B-HTP	Mark B10	Mark B-HTP
Fuel Design	Mark B10	Mark B-HTP	Mark B10	Mark B-HTP
Previously Reported PCT (2005 Change Report dated 12/12/05)	N/A	N/A	1400	1248
Changes or Errors since last report	None	None	1400	1248
Cumulative Change	0	0		
Sum of absolute magnitude of changes	0	0		