



FPLEnergy.

Duane Arnold Energy Center

September 20, 2006

FPL Energy Duane Arnold, LLC
3277 DAEC Road
Palo, Iowa 52324

NG-06-0633
10 CFR 50.46(a)(3)(ii)

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

Duane Arnold Energy Center
Docket 50-331
License No. DPR-49

10 CFR 50.46 Annual Report of Changes in Peak Cladding Temperature for the Duane Arnold Energy Center

Reference: Letter from G. Van Middlesworth (NMC) to USNRC, "10 CFR 50.46 Annual Report of Changes in Peak Cladding Temperature for the Duane Arnold Energy Center," NG-05-0483, dated September 21, 2005.

In accordance with 10 CFR 50.46(a)(3)(ii), FPL Energy Duane Arnold, LLC (hereafter FPL Energy Duane Arnold) hereby submits the annual report regarding the changes in the calculated peak cladding temperature (PCT) of the GE14 fuel currently utilized at the Duane Arnold Energy Center (DAEC). This report covers the period from the last annual report (reference) through August 31, 2006.

Our fuel vendor notified FPL Energy Duane Arnold of a change in the current Loss-of-Coolant Accident analysis methodology subsequent to the referenced report. However, this methodology change had no impact on the calculated licensing basis PCT for the DAEC. Enclosed is a current summary of the DAEC's analysis of record.

This letter contains no new commitments.

Gary Van Middlesworth
Site Vice President, Duane Arnold Energy Center
FPL Energy Duane Arnold

Enclosure

cc: Administrator, Region III, USNRC
Project Manager, Duane Arnold Energy Center, USNRC
Resident Inspector, Duane Arnold Energy Center, USNRC

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**10 CFR 50.46 ANNUAL REPORT
for DAEC - 2006**

	Peak Cladding Temperature ⁽¹⁾
Last Acceptable Model Results ⁽²⁾ :	1510°F
Previously Reports Errors and Changes:	
2001 ⁽³⁾ :	+ 55°F
2002 – 2005:	+ 10°F
New Errors and Changes:	0°F
Analysis of Record Results:	1575°F

- (1) Licensing Basis PCT (LBPCT), as defined in NEDE-23785-1-P-A, "The GESTR-LOCA and SAFER Models for the Evaluation of the Loss-of-Coolant Accident: Volume III - SAFER/GESTR Application Methodology," February 1985.
- (2) General Electric Report, "Safety Analysis Report for Duane Arnold Energy Center Extended Power Uprate," NEDC-32980P, Revision 1, April 2001.
- (3) 30-day Special Report submitted June 7, 2001 (NG-01-0754). This report concluded that no re-analysis was required and reset the 50°F reporting threshold under §50.46 (a)(3)(i) back to zero.