



July 31, 2003

NG-03-0528  
10 CFR 50.46(a)(3)(ii)

Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
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**DUANE ARNOLD ENERGY CENTER  
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**SUBJECT: 10 CFR 50.46 Annual Report of Changes in Peak Cladding Temperature for the  
Duane Arnold Energy Center**

**REFERENCE: Letter from K. Putnam (NMC) to USNRC, "10 CFR 50.46 Annual Report of  
Changes in Peak Cladding Temperature for the DAEC," NG-02-0622, dated  
August 15, 2002.**

In accordance with 10 CFR 50.46(a)(3)(ii), Nuclear Management Company, LLC hereby submits our annual report regarding the changes in the calculated peak cladding temperature (PCT) of the GE12 and GE14 fuels currently utilized at the Duane Arnold Energy Center (DAEC). This report covers the period from the last annual report (Reference 1) through June of this year.

Subsequent to Reference 1, our fuel vendor has notified us of additional errors in the current Loss-of-Coolant Accident (LOCA) analysis for the DAEC. However, only one of the identified errors has an impact on PCT. Its correction results in an increase of 5 °F in the calculated PCT for both fuel types in use at the DAEC. When added to the previous accumulation of errors, the new error results in a total change in PCT of +65 °F (both nominal and absolute value) over the baseline analysis value. However, significant margin in PCT (over 600 °F) to the regulatory limit of 2200 °F exists. Thus, there is no safety significance to the reported errors and no re-analysis is required at this time.

This letter contains no new commitments.

Sincerely,

Mark A. Peifer  
Site Vice President, Duane Arnold Energy Center

cc: J. Dyer, USNRC, Region III  
D. Hood (NRC-NRR)  
NRC Resident Inspector

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