

October 12, 2001
NG-01-0969

Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Station 0-P1-17
Washington, DC 20555-0001

Subject: Duane Arnold Energy Center
Docket No: 50-331
Op. License No: DPR-49
10 CFR 50.46 Annual Report of Changes in Peak Cladding Temperature
for the Duane Arnold Energy Center (DAEC)

References: 1. NG-00-1342, "10 CFR 50.46 Annual Report of Changes in Peak
Cladding Temperature for the DAEC," dated August 15, 2000.
2. NG-01-0754, "10 CFR 50.46 Special Report of Errors in Peak
Cladding Temperature for the DAEC," dated June 7, 2001.
3. NG-99-1126, "10 CFR 50.46 Annual Report of Changes in Peak
Cladding Temperature," dated August 13, 1999.
4. FLN-2001-13, "Summary of Changes and Errors in ECCS Evaluation
Models," dated August 10, 2001.

File: A-105, A-225, J-60a

Dear Sir/Madam:

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 temperatures (PCTs) of the GE 10, GE 12 and GE 14 fuels currently used at the Duane Arnold Energy Center. This report covers the period from the last annual report (Reference 1) to June of this year.

In addition to the PCT changes that have been reported by our reports (References 2 and 3) and on the basis of our fuel vendor annual report (Reference 4), a PCT change is identified to have an effect on our GE 10 and GE 12 fuels. This PCT change involves the use of incorrect time step size in plant specific calculations and results in a decrease of 5 °F in the calculated PCTs for our GE 10 and GE 12 fuels. This PCT change, when combined with all the respective PCT changes reported since the 2000 LOCA analysis, results in a cumulative PCT change of 60 °F for our GE 10 and GE 12 fuels (sum of the absolute magnitudes of all the respective temperature changes). The PCT change does not affect our GE 14 fuel; therefore, its cumulative PCT change remains the same as discussed in our special report (Reference 2).

2001

Should you have any questions regarding this matter, please contact this office.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth S. Putnam", with a stylized flourish at the end.

Kenneth S. Putnam
Manager, Licensing

cc: H. Tran
G. Van Middlesworth
R. Anderson (NMC)
J. Dyer (Region III)
B. Mozafari (NRC-NRR)
NRC Resident Office – DAEC
DOCU