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November 29, 1999
NG-99-1650

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 (DAEC)
Docket No: 50-331
Op. License No: DPR-49
10 CFR 50.46 Special Report of a Significant Error in Peak
Cladding Temperature for the DAEC

References: 1. Letter, K. E. Peveler (IES) to Document Control Desk (NRC),
"10 CFR 50.46 Annual Report of Changes in Peak Cladding
Temperature," dated August 13, 1999 (NG-99-1126).
2. Letter, T. G. Orr (GE) to T. Evans (Alliant Energy),
"10CFR50.46 Error Report – 1993 Duane Arnold
SAFER/GESTR Analysis for GE8 Fuel", dated November 1,
1999 (TGR:99-090).

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

Dear Sirs:

In accordance with 10 CFR 50.46(a)(3)(ii), IES Utilities Inc. hereby reports a significant change in the calculated peak cladding temperature (PCT) for the Duane Arnold Energy Center (DAEC).

Subsequent to our last annual report (Reference 1), we were notified of a plant-specific error in our Loss-of-Coolant Accident (LOCA) analysis (Reference 2). The error involved the use of an incorrect number of fuel rods (60 vs. 62). The correction of this error results in a decrease of 8 °F in the calculated PCT for the limiting Design Basis Accident (DBA), using Appendix K assumptions, previously reported for the DAEC.

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November 29, 1999

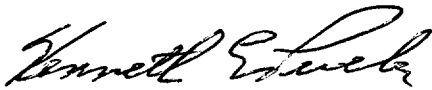
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This PCT change, when combined (sum of the absolute magnitudes) with all the applicable PCT changes previously reported, results in a cumulative PCT change for the DAEC of greater than the 50 °F reporting threshold under §50.46 (a)(3)(i). Although this is defined as a "significant change" under §50.46, the actual impact on safety is negligible, as the DAEC has significant margin, over 500 °F, to the 2200 °F PCT limit of §50.46 (b)(1). Thus, a re-analysis is not required as a result of these cumulative errors.

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

Sincerely,



Kenneth E. Peveler
Manager, Regulatory Performance

cc: T. Browning
D. Wilson
E. Protsch
J. Dyer (Region III)
B. Mozafari (NRC-NRR)
NRC Resident Office – DAEC
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