

Iowa Electric Light and Power Company

June 30, 1981  
DAEC-81-363

Mr. James G. Keppler, Director  
Office of Inspection and Enforcement  
Region III  
U. S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137



Re: Duane Arnold Energy Center

Subject: Unique Report 81-3

File: A-118, NRC-1

Dear Mr. Keppler:

This report is submitted in accordance with the requirements of Appendix A to Operating License DPR-49, Specification 6.11.3.

Problem:

During inspection of the HPCI turbine, performed during the 1981 refueling and maintenance outage, the turbine was found to have a cracked reversing chamber and a broken reversing chamber retaining cap screw. The head to the cap screw on chamber No. 5 could not be located within the turbine. The NSSS vendor was contacted to determine the effect the bolt head could potentially have on plant safety systems. There have been two previous similar occurrences reported. See Unique Report 78-1 and Unique Report 80-1.

Cause Description:

The cause of the broken bolt head and the reversing chamber crack could not be determined.

Corrective Action:

The reversing chamber and bolt were replaced with like-for-like spares.

The GE analysis determined that "the part could not cause any potential for fuel bundle flow blockage since it cannot enter the reactor vessel". An engineering design review will be initiated to determine the cause and possible corrective actions for the repeated reversing chamber and reversing chamber retaining bolt failures.

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This report has been reviewed and approved by the DAEC Operations Committee.

Very truly yours,

*D. L. Mineck/Suy*  
Daniel L. Mineck  
Chief Engineer  
Duane Arnold Energy Center

DLM/MSR/pl

Docket No. 50-0331

cc: P. Ward  
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