

Iowa Electric Light and Power Company

January 30, 1981

DAEC - 81 - 66

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

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Subject: Licensee Event Report No. 81-001  
(30 day)

File: A-118a

Dear Mr. Keppler:

In accordance with Appendix A to Operating License DPR-49, Technical Specifications and Bases for Duane Arnold Energy Center and Regulatory Guide 10.1, please find attached a copy of the subject Licensee Event Report. (Total of 3 copies transmitted).

Very truly yours,



Daniel L. Mineck  
Chief Engineer  
Duane Arnold Energy Center

Docket 50-331

attachment

DLM/MSR/pl

cc: Director, Office of Inspection and Enforcement (30)  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Director, Management Information and Program Control (3)  
U. S. Nuclear Regulatory Commission  
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NRC Resident Inspector - DAEC

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DUANE ARNOLD ENERGY CENTER  
Iowa Electric Light and Power Company  
Licensee Event Report - Supplemental Data

Docket No. 050-0331

Licensee Event Report Date: January 30, 1981

Reportable Occurrence No: 81-001

Event Description

During normal power operation, the "B" Drywell Particulate Radiation Element, RE 8101B, would not respond to a source check. Redundant element, RE 8101A, had previously been declared inop. The Iodine and Gaseous Rad Monitors responded properly. Tech Spec. 3.6.C.2 necessitates both sump and air sampling systems be operable during reactor operation. In accordance with this requirement a 7-day LCO was initiated. Moisture carryover in the air sampling line has been a recurring problem. See LER 80-038, 78-09, 77-03, and 77-04.

Cause Description

Moisture in the sample line air apparently eroded a hole in the particulate filter therein allowing particulate to collect on the surface of the detector. This resulted in the detector reading high and being seemingly unresponsive to the source.

Corrective Action

Following replacement of the particulate filter and decontamination of the detector, the reading dropped to normal. RE 8101B was source checked sat. prior to being returned to operation. RE 8101B is an NMC, model RAK-22IF radiation element.

Moisture carryover has been a recurring problem with this sampling system. In response to several earlier LER's, a design review was initiated and resulted in the installation of two drain traps upstream of the particulate radiation detectors during the 1978 refuel outage. These drain traps have improved the availability of this system but have not alleviated the problem. Another design review will be conducted to determine if other modifications are appropriate to prevent recurrences of this problem.