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CONTROL NO: **4745**

FILE: INCIDENT REPORT FILE

FROM: Iowa Electric Light and Power Cedar Rapids, Iowa G.G. Hunt		DATE OF DOC 4-24-75	DATE REC'D 4-30-75	LTR XXX	TWX	RPT	OTHER
TO: James G. Keppler		ORIG 1 /Signed	CC	OTHER	SENT AEC PDR <del>XXXXXXXXXX</del> SENT LOCAL PDR <del>XXX</del>		
CLASS	UNCLASS XXXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-331		

DESCRIPTION:

Ltr. furnishing additional info. concerning 75-19 on 4-14-75 ...corrective action has not been completed...However they can report that the cause of the occurr. has been determined to be a flow element orifice whose dimensions were not compatible with the flow transmitter & HPCI controller combination.....

PLANT NAME: Duane Arnold

ENCLOSURES:

**DO NOT REMOVE**  
**ACCORD**

FOR ACTION/INFORMATION

VCR 5-1-75

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# IOWA ELECTRIC LIGHT AND POWER COMPANY

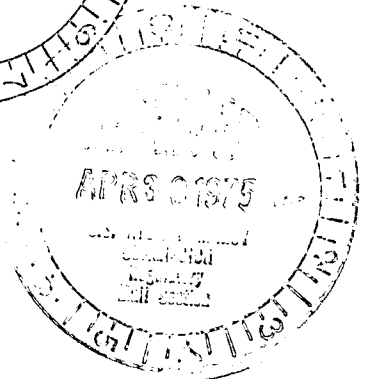
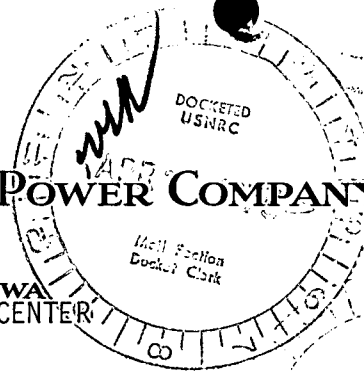
General Office

CEDAR RAPIDS, IOWA  
DUANE ARNOLD ENERGY CENTER

PALO, IOWA

APRIL 24, 1975

DAEC-75-177



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

Subject: Abnormal Occurrence No. A.O. 50-331/75-19  
File: A-110, A-118a

Dear Mr. Keppler:

In a letter transmitted to your office on April 15, 1975, you were notified of an abnormal occurrence at the Duane Arnold Energy Center on April 14, 1975. The abnormal occurrence involved the determination that the HPCI pump was actually delivering 2350 gpm flow when the flow controller was indicating 3000 gpm. In accordance with the DAEC Technical Specifications, the required flow delivered by the HPCI pump must be  $\geq 3000$  gpm.

This letter is intended as a preliminary report on the subject abnormal occurrence. The analysis of the occurrence and testing following implementation of corrective action has not yet been completed. However, we can report that the cause of the occurrence has been determined to be a flow element orifice whose dimensions were not compatible with the flow transmitter and HPCI flow controller combination. Although the flow transmitter and HPCI flow controller combination were properly calibrated with respect to the instrument data sheet supplied by the reactor vendor, it was determined that the flow orifice was not compatible with the instrument data sheet. Preliminary testing using a temporary orifice of the correct dimensions indicates that the HPCI pump is capable of delivering the required 3000 gpm flow as specified in the Technical Specifications.

Plant personnel are now in the process of machining the previous orifice to the correct dimensions. Following installation of the orifice and prior to declaring the system operable, the HPCI Subsystem design capabilities will be verified by demonstration testing. The testing will include injection to the reactor vessel at rated pressure.

0745

APR 28 1975

4/14/75

It should be noted that the reactor was placed in the cold shutdown on April 20, 1975 and remained in that condition until reactor heat-up for HPCI testing commenced on April 23, 1975.

A full report on the abnormal occurrence will be submitted as soon as possible following completion of demonstration testing.

Very truly yours,



G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

DLW:GGH:bh

CC: B. C. Rusche  
C. W. Sandford  
J. A. Wallace  
J. R. Newman  
H. W. Rehrauer-Chairman, Safety Committee  
E. L. Hammond