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FROM: Iowa Electric Light & Power Co. Cedar Rapids, Iowa C.C. Hunt			DATE OF DOC 4-3-75	DATE REC'D 4-10-75	LTR XX	TWX	RPT	OTHER
TO: James G. Keppler			ORIG 1 Signed	CC	OTHER	SENT AEC PDR XXX SENT LOCAL PDR XXX		
CLASS	UNCLASS XXXX	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-331		

DESCRIPTION:

Ltr. trans the following...

ENCLOSURES:

Abnorm. Occurr. # 75-15, on 3-24-75 concernin
Containment atmosphere oxygen concentration
...

(1 cy. enc. rec'd)

PLANT NAME: Duane Arnold

ACKNOWLEDGED

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FOR ACTION/INFORMATION

VCR 4-10-75

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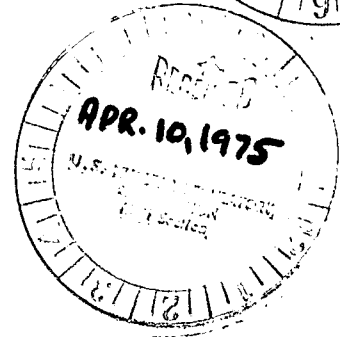
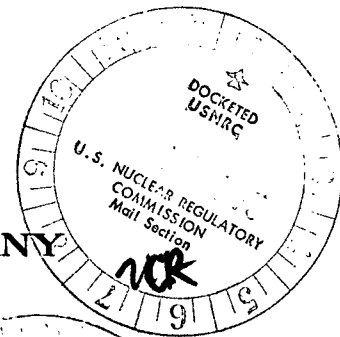
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IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER
PALO, IOWA
APRIL 3, 1975
DAEC-75-139



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

SUBJECT: Abnormal Occurrence No. A.O. 50-331/75-15
FILE: A-110 A-118a

Dear Mr. Keppler:

In accordance with Appendix A to Operating License DPR-49, Technical Specifications and Bases for Duane Arnold Energy Center, please find enclosed a written report on the subject abnormal occurrence.

Mr. C. D. Feierabend, of your office, was notified of the abnormal occurrence at 1515 hours on March 25, 1975.

Very truly yours,

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

OCS/GGH/bh
Attachment

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

3886

APR

7 1975

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office
CEDAR RAPIDS, IOWA

SUBJECT: Abnormal Occurrence
REPORT NUMBER: A. O. 50-331/75-15
REPORT DATE: April 3, 1975
OCCURRENCE DATE: March 24, 1975
FACILITY: Duane Arnold Energy Center, Unit #1, Palo, Iowa

Identification of Occurrence

Containment atmosphere oxygen concentration, reportable in accordance with Appendix A to Operating License DPR-49, Specifications 1.0.4.b and 3.7.A.5.

Conditions Prior to Occurrence

Orderly reactor shutdown in progress.
Reactor Power, 309 MWt and 66 MWe.

Description of Occurrence

The reactor was placed in the "Run" mode at 2253 hours on March 23, 1975 following a drywell inspection for unidentified coolant leakage. (See Abnormal Occurrence Report No. A. O. 50-331/75-14)

At 2253 hours on March 24, 1975, the containment atmosphere oxygen concentration was approximately 18.4% and the reactor was in the "Run" mode. In accordance with the DAEC Technical Specifications, the drywell oxygen concentration should have been <4% no later than 24 hours following the time the reactor was placed in the "Run" mode.

When it became apparent that adequate nitrogen for inerting the drywell would not be available within the 24 hour period, a reactor shutdown to the "Startup" mode was initiated at 1800 hours on March 24, 1975.

Designation of Apparent Cause of Occurrence

The cause of the occurrence was an underestimation by operating personnel of the time required to orderly reduce reactor power to a level at which the mode switch could be removed from the "Run" mode.

The non-scheduled shutdown occurred on a weekend and although attempts were made to secure replacement nitrogen, suppliers were not able to deliver the nitrogen within the 24 hour period.

Analysis of Occurrence

Since the Technical Specifications require the drywell to be inerted within 24 hours following the time the reactor is placed in the "Run" mode and deinerting may commence 24 hours prior to a shutdown, the additional amount of time that was required to inert the drywell is not considered significant with regards to plant safety.

Corrective Action

The reactor was removed from the "Run" mode at 2328 hours on March 24, 1975 and returned to the "Run" mode a short time later. Inerting of the drywell started at 1045 and was completed at 1650 hours on March 25, 1975.

At the time that the reactor was removed from the "Run" mode, plant personnel agreed that the intent of the Technical Specifications was met when the mode switch was placed in the "Startup" mode. However, during the investigation of the occurrence, it was determined that in accordance with Specification 3.7.A.7, the reactor should have been placed in the cold shutdown condition when it was determined the drywell could not be inerted within 24 hours following the time the reactor was placed in the "Run" mode. This requirement was inadvertently overlooked by plant personnel at the time of the occurrence.

Conclusion

This report was reviewed and approved by the DAEC Operations Committee on April 3, 1975. The Committee concluded that the occurrence did not present a hazard to the health and safety of the public.

Very truly yours,



G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW/ELH/GGH/mg