

**AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)**

CONTROL NO: 148  
FILE: INCIDENT REPORT

FROM: Iowa Electric Light&Pwr Cedar Rapids, Iowa E L Hammond		DATE OF DOC 12-23-74	DATE REC'D 1-6-75	LTR XX	TWX	RPT	OTHER
TO: Mr Keppler		ORIG none signed	CC	OTHER	SENT AEC PDR <u>XX</u> SENT LOCAL PDR <u>XX</u>		
CLASS	UNCLASS XXXXXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-331		

DESCRIPTION:  
Ltr re their 12-3-74 ltr.....furnishing info concerning apparent violations of AEC requirements discovered during an inspection.....

ENCLOSURES:

**ACKNOWLEDGED**

**DO NOT REMOVE**

PLANT NAME: Duane Arnold

FOR ACTION/INFORMATION 1-8-75 ehf

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**INTERNAL DISTRIBUTION**

<u>REG FILE</u> AEC PDR OGC, ROOM P-506-A MUNIZING/STAFF CASE GIAMBUSSO BOYD MOORE (S) (BWR) DEYOUNG (S) (PWR) SKOVHOLT (S) GOLLER (S) P. COLLINS DENISE REG OPR FILE & REGION T.R. WILSON	<u>TECH REVIEW</u> SCHROEDER MACCARRY KNIGHT PAWLICKI SHAO STELLO HOUSTON NOVAK ROSS IPPOLITO TEDESCO LONG LAINAS BENAROYA STEELE VOLIMER	<u>DENTON</u> GRIMES GAMMILL KASTNER BALLARD SPANGLER  <u>ENVIRO</u> MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR HARLESS	<u>LIC. ASST.</u> DIGGS (S) GEARIN (S) GOULBOURNE (S) KREUTZER (E) LEE (S) MAIGRET (S) REED (E) SERVICE (S) SHEPPARD (S) SLATER (E) SMITH (S) TEETS (S) WILLIAMS (E) WILSON (S) INGRAM (S)	<u>A/T IND</u> BRAITMAN SALTZMAN B. HURT  <u>PLANS</u> MCDONALD CHAPMAN DUBE w/input E. COUPE D. THOMPSON (2) KLECKER F. WILLIAMS
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**EXTERNAL DISTRIBUTION**

1-LOCAL PDR Cedar Rapids, Ia	1- (2) (10) -NATIONAL LABS	1-PDR SAN/LA/NY
1-TIC (ABERNATHY)	1-W. PENNINGTON, RM E-201 G.T.	1-BROOKHAVEN NAT LAB
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1-NEWTON ANDERSON		1-J. RUNKLES, RM E-201 G.T.
5-ACRS SENT TO LIC. ASST. Teets		

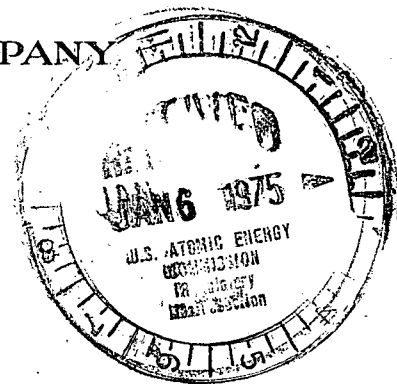
*E Case*  
Regulatory Docket File

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA  
DUANE ARNOLD ENERGY CENTER  
PALO, IOWA

DECEMBER 23, 1974  
DAEC 425 - 74



Mr. James Keppler, Director  
Regulatory Operations Regional Office  
U. S. Atomic Energy Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Docket No. 50-331

Reference: Letter dated December 3, 1974  
from Gaston Fiorelli of AEC to  
Charles Sandford of Iowa Electric  
Light and Power Company.

File: A-110, Q-72b

Dear Mr. Keppler,

The following information is submitted in response to the above referenced letter which requested an explanation of apparant violations of AEC requirements discovered during an inspection by your W. Fischer and H. Till at DAEC on October 9-11, 1974. The apparant violations are stated below for easy reference relative to ie: corrective actions.

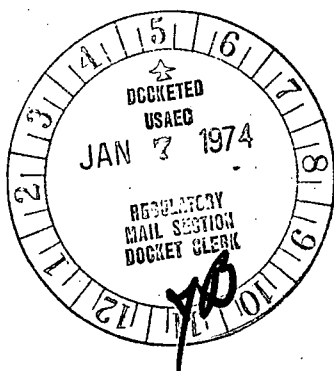
- A. The Code of Federal Regulations Part 20.203(c)(2) states in part that "Each entrance or access point to a high radiation area shall be . . . maintained locked except during periods when access to the area is required . . . ."

Contrary to the above, high radiation area entrances were found unlocked, as follows:

1. Locks on two doors were found to be malfunctioning. These doors were located at the SE corner of the turbine shield wall on the 780' level, and the NW corner of the condenser shield wall on the 757' 6" level.

- a) Corrective action taken and results achieved:

The locks on the two doors found to be malfunctioning were repaired by riveting the lock plate to the door thus prohibiting the lock assembly to shift and permit the door to become unlocked. This design change was made to all locks on doors to high radiation areas.



- b) Corrective action to be taken to avoid further violations:

Although the design change afforded a positive method of assuring a door would remain locked, the lock assembly does not conform to the criteria of Regulatory Guide 5.12. New lock assemblies that conform to the Regulatory Guide 5.12 criteria have been ordered to replace existing assemblies on high radiation area entrance doors.

- c) Date when full compliance will be achieved:

Full compliance with the Code of Federal Regulations Part 20.203(c)(2) was achieved within the week after the AEC on-site inspection. The two malfunctioning door locks were repaired and all remaining high radiation area entrance doors were riveted to assure a locked condition. New locks that meet the Regulatory Guide 5.12 are ordered and are expected to be installed by February 1, 1975.

2. A door was open to allow a hose to pass through at the NW corner of the condenser shield wall on the 734' level.

- a) Corrective action taken and results achieved:

The hose was removed and the door was locked in compliance with the Code of Federal Regulations Part 20.203(c)(2).

- b) Corrective action to be taken to avoid further violations:

Plant personnel have been instructed orally and in writing that doors to all High Radiation areas must be maintained closed and locked except during periods when access to the area is required.

- c) Date when full compliance will be achieved:

Full compliance with the Code of Federal Regulation Part 20.203(c)(2) was achieved on the date of the inspection.

- B. Technical Specification 3.7.C.1 states that "Secondary containment integrity shall be maintained during all modes of plant operation . . . "

Contrary to the above, the airlock door interlocks were found to be inoperable and resulted in a breach of secondary containment when tested while the reactor was operating. These airlocks were: access control to the Reactor Building at the 757' 6" level; Hot Lab to Reactor Building at the 786' level; and Turbine Building to the Reactor Building SE corner at the 757' 6" level.

- a) Corrective action taken and the results achieved:

The inoperable personnel airlock door interlocks were repaired and made operable in order to comply with the design intent of the system.

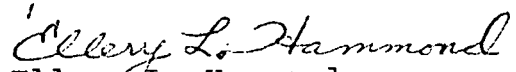
- b) Corrective action to be taken to avoid further violations:

A design change on the interlock logic has been initiated and the present interlock hardware is being modified to provide assurance against future damage to components.

- c) Date when full compliance will be achieved:

Full compliance with having the three personnel airlock door interlocks operable was achieved within one week after the AEC on-site inspection. The design change on the interlock logic and the interlock hardware change should be installed and tested by July 1975. The July 1975 date is necessary due to availability of hardware and the complexity of the design installation.

Sincerely,

  
Ellery L. Hammond  
Assistant Chief Engineer  
Duane Arnold Energy Center

ELH/mg

cc: E. G. Case, C. W. Sandford, J. A. Wallace, B. R. York,  
D. L. Wilson, R. R. Rinderman, L. D. Root, H. W. Rehrauer  
G. A. Cook