

*OK Central files*

AUG 8 1973

Iowa Electric Light and  
Power Company  
ATTN: Mr. C. W. Sandford  
Vice President  
P. O. Box 351  
Cedar Rapids, Iowa 52406

Docket No. 50-331

Gentlemen:

Thank you for your letter dated July 24, 1973, which forwarded  
a report providing additional information pursuant to 10 CFR 50.55(e).  
Your report will be reviewed and evaluated and, should we require  
additional information concerning this matter, we will contact you.

Your cooperation concerning this matter is appreciated.

Sincerely,

*151*

J. G. Davis, Deputy Director  
for Field Operations  
Directorate of Regulatory Operations

bcc with copy of July 24 ltr:  
B. H. Grier, RO:III, w/o encl.  
DR Central Files  
RO Files  
PDR  
LPDR  
NSIC  
TIC

*4P*

|           |            |            |            |  |  |  |
|-----------|------------|------------|------------|--|--|--|
| OFFICE ▶  | RO:FS&EB   | RO:FS&EB:C | RO:DDFO    |  |  |  |
| SURNAME ▶ | <i>SEB</i> | <i>HD</i>  | <i>JGD</i> |  |  |  |
| DATE ▶    | 8/7/73     | 8/7/73     | 8/8/73     |  |  |  |

# IOWA ELECTRIC LIGHT AND POWER COMPANY

*General Office*

CEDAR RAPIDS, IOWA

July 24, 1973

IE-73-1175

C. W. SANDFORD

VICE PRESIDENT

Dr. Donald F. Knuth  
Directorate of Regulatory Operations  
U.S. Atomic Energy Commission  
Washington, D. C. 20545

Re: Duane Arnold Energy Center #1  
Subject: Unauthorized Heating and Bending of Pipe  
File: Q-609

Dear Dr. Knuth:

This report is to provide additional information to that provided in our letter of December 21, 1972 (IE-72-770) to Mr. F. E. Kruesi regarding the unauthorized heating and bending of pipe.

In the previous report, we informed Mr. Kruesi that as a result of the initial discovery of unauthorized heating, an inspection program was initiated to identify other pipes that may have been heated. We also established the scope of the program and the criteria to be used to resolve any identified occurrences.

The inspection program as outlined included:

1. All impact tested pipe regardless of size.
2. All pipe of safety-related systems as defined by the QA P&IDs regardless of class and of 4" diameter and larger.

This program has been completed. The inspection identified a total of 29 spools of pipe which showed evidence of being subjected to unauthorized heating and bending. A total of 22 Non-conformance Reports (NCR) were prepared. The attachment itemizes the disposition of the NCRs. Corrective action has been taken on all identified instances as per our letter of December 12, 1972. The inspection program provided no evidence that additional incidents of pipe heating occurred following the implementation of the corrective action outlined in our letter of December 21, 1972 to Mr. Kruesi.

The documentation of the inspection program is on site for review by your personnel. If you have any further question, do not hesitate to contact us.

Very truly yours,

*C. W. Sandford*  
C. W. Sandford  
Vice President

GAC:CWS:hh

cc: B. Grier  
L. Root

J. Newman  
L. Rosetta

ATTACHMENT I  
DISPOSITION OF HEATED PIPE NCR'S

| <u>Material</u>               | <u>Size</u> | <u>Class</u>           | <u>Disposition</u>                        | <u>Quantity</u> | <u>Comments</u>                                     |
|-------------------------------|-------------|------------------------|---|-----------------|---|
| Carbon Steel<br>Impact Tested | 8" & 12"    | Section III<br>Class B | Replace                                   | 4               |   |
| Carbon Steel                  | 3"          | B31.7 - III            | Replace                                   | 4               | Improve Alignment                                   |
| Carbon Steel                  | 6"          | B31.1                  | Replace                                   | 3               | Cracks & Distortion Noted<br>on detail visual exam. |
| Carbon Steel                  | 3"-20"      | B31.7 - II             | Stress Relieve<br>& P.T.                  | 6               |   |
| Carbon Steel                  | 16"         | B31.7 III              | Stress Relieve<br>& P.T.                  | 2               |   |
| Carbon Steel                  | 4"          | B31.7 I                | Stress Relieve<br>P.T. & Visual Ex.       | 2               |   |
| Carbon Steel                  | 4"          | B31.1                  | Visual Exam. for<br>Cracks & Dist.        | 2               |   |
| Carbon Steel                  | 4"          | B31.7 III              | Visual Exam. for<br>Cracks & Dist.        | 1               |   |
| Carbon Steel                  | 8" & 24"    | B31.1                  | P.T. Exam. Replace<br>if Crack or Dist.   | 3               |   |
| Carbon Steel                  | 16"         | B31.7 III              | P.T. Exam. Replace<br>if Cracked or Dist. | 1               |   |
| Carbon Steel*                 | 4"          | Section III<br>Class B | Stress Relieve<br>& P.T.                  | 1               |   |

\*Note- Carried pipe classification code of impact-tested pipe although non-impact tested pipe installed as permitted in specification M-190 Sheet 97.

# FS&EB ACTION CONTROL FORM

A. Action Code CDR#145

|                                      |   |
|--------------------------------------|---|
| <b>Name of Licensee and Facility</b> | Iowa Elec. & Pwr. Co. (Duane Arnold #1) |
|--------------------------------------|---|

Docket No. or License No. 50-331

**Title** CDE Evaluation and Follow up

Origin CDR Date Rec'd 7/30/73

**B. FS&EB Branch Coordinator:**

Bryan X Dreher

Ellis \_\_\_\_\_ Paulus \_\_\_\_\_

Completion Requested by \_\_\_\_\_

**C. Action Requested of:**

ADREMP \_\_\_\_\_ M&PPOB \_\_\_\_\_ EPB \_\_\_\_\_ RPB \_\_\_\_\_ ADCO \_\_\_\_\_

OB \_\_\_\_\_ CB \_\_\_\_\_ TAB \_\_\_\_\_ OOE \_\_\_\_\_ Region III

Date Requested \_\_\_\_\_ Completion Requested by \_\_\_\_\_

Reference Letter dated July 24, 1973 from C. W. Sandford to D. F. Knuth

#### D. Action Requested

In accordance with PI 0600/6, "Construction Deficiency Reporting", the Iowa Electric Light and Power Company (Duane Arnold #1) deficiency report of 7/24/73 covering unauthorized heating and bending of pipe is being assigned to Region III for evaluation of the technical adequacy of the corrective action and the final resolution of the deficiency.

E. Date Action Completed \_\_\_\_\_

Close-out (Date & Method) \_\_\_\_\_

Comments: If completion date is not consistent with your work schedule, please let us know.

J. G. Davis, Deputy Director  
for Field Operations  
Directorate of Regulatory Operations