

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO:  
Mr. James G. Keppler

FROM:  
Iowa Electric Light & Power Co.  
Cedar Rapids, Iowa  
Ellery L. Hammond

DATE OF DOCUMENT  
2/1/77  
DATE RECEIVED  
2/4/77

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 ORIGINAL  
 COPY

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 UNCLASSIFIED

PROP

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DESCRIPTION

Ltr. trans the following:

**ACKNOWLEDGED**  
**Do Not Remove**

PLANT NAME:

ENCLOSURE

Licensee Event Report (RO 50-331/77-6) on hydraulic shock suppressor HBB-6-SS-22 on the HPCI turbine exhaust line being found with a broken piston and GBD-29-SS-12 on the aux boiler to HPCI line being found broken loose from its stationary mounting point...

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED SEND DIRECTLY TO KREGER/J. COLLINS

FOR ACTION/INFORMATION 2/7/77

RJL

BRANCH CHIEF: Lear

W/3 CYS FOR ACTION

LIC. ASST.: Parrish

W/ CYS

ACRS 16 CYS HOLDING/SENT: *(Att. 3. (2/7/77))*

INTERNAL DISTRIBUTION

|                                     |                    |  |  |  |  |
|-------------------------------------|--------------------|--|--|--|--|
| <input checked="" type="checkbox"/> | REG FILE           |  |  |  |  |
| <input checked="" type="checkbox"/> | NRC PDR            |  |  |  |  |
| <input checked="" type="checkbox"/> | I & E (2)          |  |  |  |  |
| <input checked="" type="checkbox"/> | MIPC               |  |  |  |  |
| <input checked="" type="checkbox"/> | SCHROEDER/IPPOLITO |  |  |  |  |
| <input checked="" type="checkbox"/> | HOUSTON            |  |  |  |  |
| <input checked="" type="checkbox"/> | NOVAK/CHECK        |  |  |  |  |
| <input checked="" type="checkbox"/> | GRIMES             |  |  |  |  |
| <input checked="" type="checkbox"/> | CASE               |  |  |  |  |
| <input checked="" type="checkbox"/> | BUTLER             |  |  |  |  |
| <input checked="" type="checkbox"/> | HANAUER            |  |  |  |  |
| <input checked="" type="checkbox"/> | TEDESCO/MACCARY    |  |  |  |  |
| <input checked="" type="checkbox"/> | EISENHUT           |  |  |  |  |
| <input checked="" type="checkbox"/> | BAER               |  |  |  |  |
| <input checked="" type="checkbox"/> | SHAO               |  |  |  |  |
| <input checked="" type="checkbox"/> | VOLLMER/BUNCH      |  |  |  |  |
| <input checked="" type="checkbox"/> | KREGER/J. COLLINS  |  |  |  |  |

EXTERNAL DISTRIBUTION

LPDR: Cedar Rapids, Iowa

TIC:

NSIC:

CONTROL NUMBER

1253

*do f*

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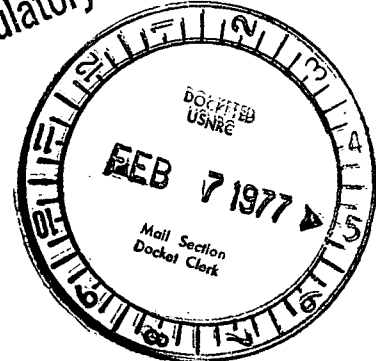
111-1

... ..

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406  
February 1, 1977  
DAEC - 77 - 84

Regulatory Docket File



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

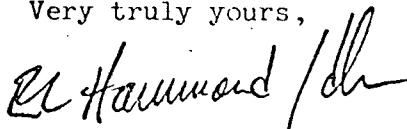
Subject: Licensee Event Report No. 77-6  
(14 day)

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,



Ellery L. Hammond  
Chief Engineer  
Duane Arnold Energy Center

ELH/DLW/mg

Docket 50-331

attachment

cc: ( Director, Office of Inspection and Enforcement )(40)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Director, Management Information and Program Control (3).  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555



1253

# LICENSEE EVENT REPORT

CONTROL BLOCK: 

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|--|--|--|--|--|--|

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME: 

|    |   |   |   |   |   |   |
|----|---|---|---|---|---|---|
| 01 | I | A | D | A | C | 1 |
|----|---|---|---|---|---|---|

 LICENSE NUMBER: 

|   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|

 LICENSE TYPE: 

|   |   |   |   |   |
|---|---|---|---|---|
| 4 | 1 | 1 | 1 | 1 |
|---|---|---|---|---|

 EVENT TYPE: 

|   |   |
|---|---|
| 0 | 1 |
|---|---|

CATEGORY: 

|    |      |
|----|------|
| 01 | CONT |
|----|------|

 REPORT TYPE: 

|   |
|---|
| I |
|---|

 REPORT SOURCE: 

|   |
|---|
| L |
|---|

 DOCKET NUMBER: 

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 0 | 5 | 0 | - | 0 | 3 | 3 | 1 |
|---|---|---|---|---|---|---|---|

 EVENT DATE: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 1 | 1 | 8 | 7 | 7 |
|---|---|---|---|---|---|

 REPORT DATE: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 2 | 0 | 1 | 7 | 7 |
|---|---|---|---|---|---|

## EVENT DESCRIPTION

02 During inspection hydraulic shock suppressor HBB-6-SS-22 on the HPCI tu  
03 rbine exhaust line was found with a broken piston and GBD-29-SS-12 on t  
04 he aux boiler to HPCI line was found broken loose from its stationary m  
05 ounting point. HBB-6-SS-22 was replaced in kind.  
06 GBD-29-SS-12 was repaired. (RO 77-6)

SYSTEM CODE: 

|   |   |
|---|---|
| S | F |
|---|---|

 CAUSE CODE: 

|   |
|---|
| C |
|---|

 COMPONENT CODE: 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| H | A | N | G | E | R |
|---|---|---|---|---|---|

 PRIME COMPONENT SUPPLIER: 

|   |
|---|
| A |
|---|

 COMPONENT MANUFACTURER: 

|   |   |   |   |
|---|---|---|---|
| B | 2 | 1 | 0 |
|---|---|---|---|

 VIOLATION: 

|   |
|---|
| Y |
|---|

## CAUSE DESCRIPTION

08 Unknown. Investigation continuing. Accessible safety related snubbers  
09 visually inspected by operations personnel. Pending cause determinati  
10 on all accessible HPCI turbine steam supply and exhaust snubbers and ha

FACILITY STATUS: 

|   |
|---|
| E |
|---|

 % POWER: 

|   |   |   |
|---|---|---|
| 0 | 8 | 5 |
|---|---|---|

 OTHER STATUS: 

|    |
|----|
| NA |
|----|

 METHOD OF DISCOVERY: 

|   |
|---|
| C |
|---|

 DISCOVERY DESCRIPTION: 

|                    |
|--------------------|
| Special Inspection |
|--------------------|

FORM OF ACTIVITY RELEASED: 

|   |
|---|
| Z |
|---|

 CONTENT OF RELEASE: 

|   |
|---|
| Z |
|---|

 AMOUNT OF ACTIVITY: 

|    |
|----|
| NA |
|----|

 LOCATION OF RELEASE: 

|    |
|----|
| NA |
|----|

## PERSONNEL EXPOSURES

13 NUMBER: 

|   |   |   |
|---|---|---|
| 0 | 0 | 0 |
|---|---|---|

 TYPE: 

|   |
|---|
| Z |
|---|

 DESCRIPTION: 

|    |
|----|
| NA |
|----|

## PERSONNEL INJURIES

14 NUMBER: 

|   |   |   |
|---|---|---|
| 0 | 0 | 0 |
|---|---|---|

 DESCRIPTION: 

|    |
|----|
| NA |
|----|

## OFFSITE CONSEQUENCES

15 

|    |
|----|
| NA |
|----|

## LOSS OR DAMAGE TO FACILITY

16 TYPE: 

|   |
|---|
| Z |
|---|

 DESCRIPTION: 

|    |
|----|
| NA |
|----|

## PUBLICITY

17 

|    |
|----|
| NA |
|----|

## ADDITIONAL FACTORS

18 Cause Desc. Cont. - ngers will be visually inspected after each HPCI operation.  
19 The aux boiler to HPCI line will be monitored during each warm up.

NAME: J. Van Sickel PHONE: 319-851-5611

*D. Lammam*

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
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February 1, 1977  
DAEC - 77 - 84



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U. S. Nuclear Regulatory Commission-Region III  
799 Roosevelt Road  
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Very truly yours,

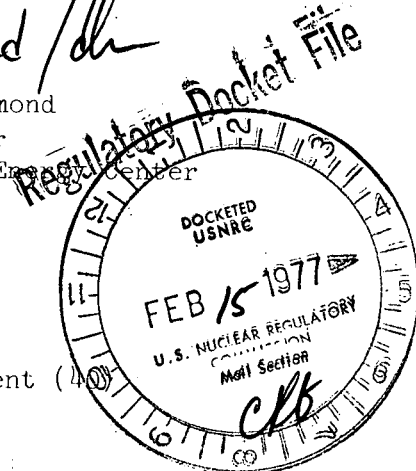
*EL Hammond / dl*

Ellery L. Hammond  
Chief Engineer  
Duane Arnold Energy Center

ELH/DLW/mg  
Docket 50-331  
attachment

cc: Director, Office of Inspection and Enforcement (4)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Director, Management Information and Program Control (3)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555



1592

FEB 4 1977

# LICENSEE EVENT REPORT

CONTROL BLOCK: 

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

(PLEASE PRINT ALL REQUIRED INFORMATION)

|       |             |                         |                 |             |             |
|-------|-------------|-------------------------|-----------------|-------------|-------------|
| 01    | I A D A C 1 | 0 0 - 0 0 0 0 0 0 - 0 0 | 4 1 1 1 1       | 0 1         |             |
| 7 8 9 | 14          | 15 25                   | 26 30           | 31 32       |             |
| 01    | CONT        | L                       | 0 5 0 - 0 3 3 1 | 0 1 1 8 7 7 | 0 2 0 1 7 7 |
| 7 8   | 57 58       | 59 60                   | 61 68           | 69 74       | 75 80       |

### EVENT DESCRIPTION

|    |                                                                         |    |
|----|-------------------------------------------------------------------------|----|
| 02 | During inspection hydraulic shock suppressor HBB-6-SS-22 on the HPCI tu | 80 |
| 03 | rbine exhaust line was found with a broken piston and GBD-29-SS-12 on t | 80 |
| 04 | he aux boiler to HPCI line was found broken loose from its stationary m | 80 |
| 05 | ounting point. HBB-6-SS-22 was replaced in kind.                        | 80 |
| 06 | GBD-29-SS-12 was repaired. (RO 77-6)                                    | 80 |

|       |     |    |             |    |         |    |
|-------|-----|----|-------------|----|---------|----|
| 07    | S F | E  | H A N G E R | A  | B 2 1 0 | Y  |
| 7 8 9 | 10  | 11 | 12 17       | 43 | 44 47   | 48 |

### CAUSE DESCRIPTION

|    |                                                                         |    |
|----|-------------------------------------------------------------------------|----|
| 08 | Unknown. Investigation continuing. Accessible safety related snubbers   | 80 |
| 09 | visually inspected by operations personnel. Pending cause determinati   | 80 |
| 10 | on all accessible HPCI turbine steam supply and exhaust snubbers and ha | 80 |

|       |    |       |    |       |                    |
|-------|----|-------|----|-------|--------------------|
| 11    | E  | 0 8 5 | NA | C     | Special Inspection |
| 7 8 9 | 10 | 12 13 | 44 | 45 46 | 80                 |

|       |    |    |    |       |
|-------|----|----|----|-------|
| 12    | Z  | Z  | NA | NA    |
| 7 8 9 | 10 | 11 | 44 | 45 80 |

### PERSONNEL EXPOSURES

|       |       |       |    |
|-------|-------|-------|----|
| 13    | 0 0 0 | Z     | NA |
| 7 8 9 | 11    | 12 13 | 80 |

### PERSONNEL INJURIES

|       |       |    |
|-------|-------|----|
| 14    | 0 0 0 | NA |
| 7 8 9 | 11 12 | 80 |

### OFFSITE CONSEQUENCES

|    |    |    |
|----|----|----|
| 15 | NA | 80 |
|----|----|----|

### LOSS OR DAMAGE TO FACILITY

|       |    |    |
|-------|----|----|
| 16    | Z  | NA |
| 7 8 9 | 10 | 80 |

### PUBLICITY

|    |    |    |
|----|----|----|
| 17 | NA | 80 |
|----|----|----|

### ADDITIONAL FACTORS

|    |                                                                                 |    |
|----|---------------------------------------------------------------------------------|----|
| 18 | Cause Desc. Cont. - ngers will be visually inspected after each HPCI operation. | 80 |
| 01 | The aux boiler to HPCI line will be monitored during each warm up.              | 80 |

NAME: J. Van Sickle PHONE: 319-851-5611