

CONTROL BLOCK: \_\_\_\_\_ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

|  |   |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
|--|---|-----------------------|-------------------------|-----------------------|----------------------|-----------------|-------------------------------|------------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------|----------------------|------------------------|-------------------|------|------|------|---------|------|------|------|------------|
| 01   | IA D A C 1  | 2                     | 0 0 - 0 0 0 0 0 0 - 0 0 | 3                     | 4                    | 5               |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| LICENSEE CODE  |   | LICENSE NUMBER        |                         | LICENSE TYPE          |                      | CAT 56          |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| CONT   |   |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 01   | REPORT SOURCE   | 6                     | 0 5 0 0 0 3 3 1         | 7                     | 0 4 2 6 8 2          | 8               |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
|  |   | DOCKET NUMBER         |                         | EVENT DATE            |                      | REPORT DATE     |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10   |   |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 02   | During normal operation while performing surveillance testing, the pressu |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 03   | re differential switch which controls reactor building to suppression cha |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 04   | mber vacuum breaker CV 4304 tripped at an out of spec. value. The switch, |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 05   | PDS 4304, tripped at .9 psid. Tech. Spec. 3.7.A.3.a requires the setpoint |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 06   | to be .5 psid. PDS 4305, which controls redundant vacuum breaker CV 4305, |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 07   | was operating properly. Six previous similar occurrences (See AO 75-33, R |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 08   | O 77-55, RO 78-32, RO 79-18, RO 80-23, and RO 81-48).                     |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 09   |   |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <table border="0" style="width:100%;"> <tr> <td style="width:10%;">SYSTEM CODE</td> <td style="width:10%;">CAUSE CODE</td> <td style="width:10%;">CAUSE SUBCODE</td> <td style="width:10%;">COMPONENT CODE</td> <td style="width:10%;">COMP. SUBCODE</td> <td style="width:10%;">VALVE SUBCODE</td> </tr> <tr> <td>S A 11</td> <td>E 12</td> <td>E 13</td> <td>I N S T R U 14</td> <td>S 15</td> <td>Z 16</td> </tr> </table>  |   |                       |                         |                       |                      |                 | SYSTEM CODE                   | CAUSE CODE             | CAUSE SUBCODE         | COMPONENT CODE      | COMP. SUBCODE         | VALVE SUBCODE        | S A 11          | E 12                 | E 13                   | I N S T R U 14    | S 15 | Z 16 |      |         |      |      |      |            |
| SYSTEM CODE  | CAUSE CODE  | CAUSE SUBCODE         | COMPONENT CODE          | COMP. SUBCODE         | VALVE SUBCODE        |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| S A 11   | E 12  | E 13                  | I N S T R U 14          | S 15                  | Z 16                 |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <table border="0" style="width:100%;"> <tr> <td style="width:10%;">LEI/RO REPORT NUMBER</td> <td style="width:10%;">EVENT YEAR</td> <td style="width:10%;">SEQUENTIAL REPORT NO.</td> <td style="width:10%;">OCCURRENCE CODE</td> <td style="width:10%;">REPORT TYPE</td> <td style="width:10%;">REVISION NO.</td> </tr> <tr> <td>17</td> <td>8 2</td> <td>0 3 1</td> <td>0 3</td> <td>L</td> <td>0</td> </tr> </table>  |   |                       |                         |                       |                      |                 | LEI/RO REPORT NUMBER          | EVENT YEAR             | SEQUENTIAL REPORT NO. | OCCURRENCE CODE     | REPORT TYPE           | REVISION NO.         | 17              | 8 2                  | 0 3 1                  | 0 3               | L    | 0    |      |         |      |      |      |            |
| LEI/RO REPORT NUMBER   | EVENT YEAR  | SEQUENTIAL REPORT NO. | OCCURRENCE CODE         | REPORT TYPE           | REVISION NO.         |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 17   | 8 2   | 0 3 1                 | 0 3                     | L                     | 0                    |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <table border="0" style="width:100%;"> <tr> <td style="width:10%;">ACTION TAKEN</td> <td style="width:10%;">FUTURE ACTION</td> <td style="width:10%;">EFFECT ON PLANT</td> <td style="width:10%;">SHUTDOWN METHOD</td> <td style="width:10%;">HOURS</td> <td style="width:10%;">ATTACHMENT SUBMITTED</td> <td style="width:10%;">NRC-4 FORM SUB.</td> <td style="width:10%;">PRIME COMP. SUPPLIER</td> <td style="width:10%;">COMPONENT MANUFACTURER</td> </tr> <tr> <td>E 18</td> <td>A 19</td> <td>Z 20</td> <td>Z 21</td> <td>0 0 0 0</td> <td>Y 22</td> <td>N 24</td> <td>A 25</td> <td>B 0 8 0 26</td> </tr> </table> |   |                       |                         |                       |                      |                 | ACTION TAKEN                  | FUTURE ACTION          | EFFECT ON PLANT       | SHUTDOWN METHOD     | HOURS                 | ATTACHMENT SUBMITTED | NRC-4 FORM SUB. | PRIME COMP. SUPPLIER | COMPONENT MANUFACTURER | E 18              | A 19 | Z 20 | Z 21 | 0 0 0 0 | Y 22 | N 24 | A 25 | B 0 8 0 26 |
| ACTION TAKEN   | FUTURE ACTION   | EFFECT ON PLANT       | SHUTDOWN METHOD         | HOURS                 | ATTACHMENT SUBMITTED | NRC-4 FORM SUB. | PRIME COMP. SUPPLIER          | COMPONENT MANUFACTURER |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| E 18   | A 19  | Z 20                  | Z 21                    | 0 0 0 0               | Y 22                 | N 24            | A 25                          | B 0 8 0 26             |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27  |   |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 10   | Instrument drift. Contributing cause is large range of switch resulting   |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 11   | in decreased setpoint accuracy and difficulty in calibration. PDS 4304 i  |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 12   | s Barton press. diff. switch Model 288A. Switch was recalibrated and fun  |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 13   | ctionally tested sat. Range of PDS 4304 and 4305 to be decreased by repl  |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 14   | acing bellows unit assemblies. Increased surveil. testing continuing.     |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <table border="0" style="width:100%;"> <tr> <td style="width:10%;">FACILITY STATUS</td> <td style="width:10%;">% POWER</td> <td style="width:10%;">OTHER STATUS</td> <td style="width:10%;">METHOD OF DISCOVERY</td> <td style="width:10%;">DISCOVERY DESCRIPTION</td> </tr> <tr> <td>E 28</td> <td>0 7 8 29</td> <td>NA</td> <td>B 31</td> <td>Surveillance Test</td> </tr> </table>  |   |                       |                         |                       |                      |                 | FACILITY STATUS               | % POWER                | OTHER STATUS          | METHOD OF DISCOVERY | DISCOVERY DESCRIPTION | E 28                 | 0 7 8 29        | NA                   | B 31                   | Surveillance Test |      |      |      |         |      |      |      |            |
| FACILITY STATUS  | % POWER   | OTHER STATUS          | METHOD OF DISCOVERY     | DISCOVERY DESCRIPTION |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| E 28   | 0 7 8 29  | NA                    | B 31                    | Surveillance Test     |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <table border="0" style="width:100%;"> <tr> <td style="width:10%;">ACTIVITY CONTENT</td> <td style="width:10%;">RELEASED OF RELEASE</td> <td style="width:10%;">AMOUNT OF ACTIVITY</td> <td style="width:10%;">LOCATION OF RELEASE</td> </tr> <tr> <td>Z 33</td> <td>Z 34</td> <td>NA</td> <td>NA</td> </tr> </table>  |   |                       |                         |                       |                      |                 | ACTIVITY CONTENT              | RELEASED OF RELEASE    | AMOUNT OF ACTIVITY    | LOCATION OF RELEASE | Z 33                  | Z 34                 | NA              | NA                   |                        |                   |      |      |      |         |      |      |      |            |
| ACTIVITY CONTENT   | RELEASED OF RELEASE   | AMOUNT OF ACTIVITY    | LOCATION OF RELEASE     |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| Z 33   | Z 34  | NA                    | NA                      |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <table border="0" style="width:100%;"> <tr> <td style="width:10%;">PERSONNEL EXPOSURES</td> <td style="width:10%;">NUMBER</td> <td style="width:10%;">TYPE</td> <td style="width:10%;">DESCRIPTION</td> </tr> <tr> <td>0 0 0 37</td> <td>Z 38</td> <td>NA</td> <td>39</td> </tr> </table>  |   |                       |                         |                       |                      |                 | PERSONNEL EXPOSURES           | NUMBER                 | TYPE                  | DESCRIPTION         | 0 0 0 37              | Z 38                 | NA              | 39                   |                        |                   |      |      |      |         |      |      |      |            |
| PERSONNEL EXPOSURES  | NUMBER  | TYPE                  | DESCRIPTION             |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 0 0 0 37   | Z 38  | NA                    | 39                      |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <table border="0" style="width:100%;"> <tr> <td style="width:10%;">PERSONNEL INJURIES</td> <td style="width:10%;">NUMBER</td> <td style="width:10%;">DESCRIPTION</td> </tr> <tr> <td>0 0 0 40</td> <td>NA</td> <td>41</td> </tr> </table>  |   |                       |                         |                       |                      |                 | PERSONNEL INJURIES            | NUMBER                 | DESCRIPTION           | 0 0 0 40            | NA                    | 41                   |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| PERSONNEL INJURIES   | NUMBER  | DESCRIPTION           |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 0 0 0 40   | NA  | 41                    |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <table border="0" style="width:100%;"> <tr> <td style="width:10%;">LOSS OF OR DAMAGE TO FACILITY</td> <td style="width:10%;">TYPE</td> <td style="width:10%;">DESCRIPTION</td> </tr> <tr> <td>Z 42</td> <td>NA</td> <td>43</td> </tr> </table>   |   |                       |                         |                       |                      |                 | LOSS OF OR DAMAGE TO FACILITY | TYPE                   | DESCRIPTION           | Z 42                | NA                    | 43                   |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| LOSS OF OR DAMAGE TO FACILITY  | TYPE  | DESCRIPTION           |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| Z 42   | NA  | 43                    |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <table border="0" style="width:100%;"> <tr> <td style="width:10%;">PUBLICITY</td> <td style="width:10%;">ISSUED</td> <td style="width:10%;">DESCRIPTION</td> </tr> <tr> <td>0</td> <td>N 44</td> <td>NA</td> </tr> </table>  |   |                       |                         |                       |                      |                 | PUBLICITY                     | ISSUED                 | DESCRIPTION           | 0                   | N 44                  | NA                   |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| PUBLICITY  | ISSUED  | DESCRIPTION           |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| 0  | N 44  | NA                    |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <div style="text-align: center; font-size: 1.2em; font-weight: bold;">8205280 137</div>  |   |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <div style="text-align: right;">NRC USE ONLY</div>   |   |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |
| <div style="display: flex; justify-content: space-between;"> <div>NAME OF PREPARER David M. Varner</div> <div>PHONE 319-851-5611</div> </div>  |   |                       |                         |                       |                      |                 |                               |                        |                       |                     |                       |                      |                 |                      |                        |                   |      |      |      |         |      |      |      |            |

DUANE ARNOLD ENERGY CENTER  
Iowa Electric Light and Power Company  
Licensee Event Report - Supplemental Data  
Docket No. 050-0331

Lic. Event Report Date: 5-21-82

Rep Occurrence No.: 82-031

Event Description:

During normal operation while performing surveillance testing, the pressure differential switch which controls reactor building to suppression chamber vacuum breaker CV 4304 tripped at an out of specification value. The switch, PDS 4304, tripped at 0.9 psid. Technical Specification 3.7.A.3.a requires the setpoint to be 0.5 psid. PDS 4305, which controls redundant vacuum breaker CV 4305, was operating properly. There have been six previous similar occurrences (see AO 75-33, RO 77-55, RO 78-32, RO 79-18, RO 80-23, and RO 81-48).

Cause Description:

The cause is attributed to instrument drift. A contributing cause is the relatively large range of the switch, which results in decreased setpoint accuracy and difficulty in calibration. PDS 4304 is a Barton pressure differential switch Model 288A.

Corrective Action:

The switch was recalibrated and functionally tested with satisfactory results. To increase the accuracy or setpoint repeatability and make calibration less difficult, a design change has been initiated to decrease the range of switches PDS 4304 and 4305. This will be accomplished by replacing the bellows unit assembly on each switch. Installation of this design change is planned for the Fall 1982 refueling outage. Increased surveillance testing is continuing.