

**SEVENTH REFUELING OUTAGE  
INSERVICE INSPECTION  
SUMMARY REPORT**

**DAVIS-BESSE NUCLEAR POWER STATION  
UNIT 1**



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INSERVICE INSPECTION  
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**DAVIS-BESSE NUCLEAR POWER STATION  
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ISI SUMMARY REPORT

REFUELING OUTAGE NO.: 7RFO

OUTAGE START DATE: August 31, 1991

REPORTING DATE: December 10, 1991

OUTAGE COMPLETION DATE: November 8, 1991

DAVIS-BESSE NUCLEAR POWER STATION UNIT No.1

5501 North State Route #2  
Oak Harbor  
Ottawa County, Ohio 43449

OWNER:

CENTERIOR SERVICE COMPANY  
6200 Oaktree Boulevard  
Independence, Ohio 44131

TOLEDO EDISON COMPANY  
300 Madison Avenue  
Toledo, Ohio 43652

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
55 Public Square  
Cleveland, Ohio 44101

NRC DOCKET NUMBER: 50-346  
OPERATION LICENSE: NPF-3  
COMMERCIAL OPERATION: November 21, 1977



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## ABSTRACT

This report provides a summary of the nondestructive examinations and pressure tests performed during the 7th Refueling Outage at the Davis Besse Nuclear Power Station.

The nondestructive examination and pressure test program was performed by Toledo Edison and ASEA Brown Boveri/ Combustion Engineering personnel from August, 1991 through November, 1991. This program is in compliance with the requirements of the 1986 Edition of the ASME Boiler and Pressure Vessel Code and the Davis Besse Unit #1 Technical Specifications as described in the Second Ten Year Inservice Inspection Program Plan. These nondestructive examinations and tests fulfilled a portion of the examinations and tests required to be performed in the first period of the second ten year interval.

The NDE examinations consisted of Ultrasonic (UT), Liquid Penetrant (PT), Magnetic Particle (MT), and Visual (VT-1, VT-2, VT-3). There were a total of 142 ASME Class 1 and 2 examinations performed. Four indications requiring further evaluation were identified. All were found acceptable.

Pressure tests consisted of functional, inservice, and hydrostatic tests. In addition to tests conducted in accordance with the Pressure Test Program Plan, tests were also conducted following repairs/replacements. In total, 71 pressure tests were successfully conducted.

The tubing in both Once Through Steam Generators was eddy current examined. One thousand eight hundred ninety eight (1898) tubes in Steam Generator 1-1 were examined to provide preventive maintenance information. Four tubes exhibited indications greater than 39 percent through wall. Steam Generator 1-2 was examined in accordance with the Davis Besse Unit #1 Technical Specifications. Due to indications greater than 39 percent through wall, the original 6 percent sample size was expanded to 12 percent and then to 24 percent. In total, seven thousand four hundred eighty three (7483) tubes in Steam Generator 1-2 were examined. Nine tubes with through wall indication greater than 39 percent were identified.

All repairs/replacements performed at Davis Besse are controlled via Toledo Edison's Maintenance Work Order system. Copies of Toledo Edison's Repair/Replacement forms for ASME Class 1 and 2 repairs/replacements are included in this report. All other records including any required testing and examination are available in Toledo Edison's Records Management System for review.



As required by the Provisions of the ASME Code Rules

7. Components Inspected Steam Generator Eddy Current

[illegible]

This form (E00029) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017



FORM NIS-1 (back)

8. Examination Dates Sept. 1991 to Nov. 1991. Inspection Interval from Sept. 1990 to Sept. 2000
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See 1991 Eddy Current Report
11. Abstract of Conditions Noted See 1991 Eddy Current Report
12. Abstract of Corrective Measures Recommended and Taken  
See 1991 Eddy Current Report

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date 12-11 1991 Signed Toledo Edison Co. By [Signature]  
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Ohio and employed by H.S.B.I. & I. CO. of Hartford, CT have inspected the components described in this Owners' Data Report during the period Sept. 1991 to Nov. 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date DEC 18 1991

[Signature]  
Inspector's Signature

Commissions NB-9800, Ohio Comm. (B.N.I.)  
National Board, State, Province and No.



### Steam Generator Eddy Current Examination Results

The tubing in the Once Through Steam Generators (OTSG's) at the Davis Besse Nuclear Power Station Unit #1 was examined in September, 1991, during the 7th Refueling Outage. The examinations were conducted by ASEA Brown Boveri/Combustion Engineering to meet the requirements of the Second Ten Year Inservice Inspection Plan and the Davis Besse Unit #1 Technical Specifications.

The eddy current examinations were performed utilizing a magnetic bias bobbin probe for ASME Code and informational examinations and a three coil Motorized Rotating Pancake Coil(s) (MRPC) for defect clarification and verification. Single coil MRPC examinations were also performed in the lane, wedge and sleeve zone tube regions for detection of Intergranular Attack (IGA) or high cycle fatigue indications.

Steam Generator 1-1 was examined to provide preventive maintenance information. One thousand eight hundred ninety eight (1898) or twelve (12) percent of the tubes were examined utilizing the bobbin probe with one hundred forty six (146) or one (1) percent being examined utilizing MRPC. One tube was found with a through wall indication less than 20 percent, 2 tubes had through wall indications between 20 and 39 percent, and 4 tubes had through wall indications greater than 39 percent. The 4 tubes with through wall indications greater than 39 percent were plugged.

Steam Generator 1-2 was examined to meet the Davis Besse Unit #1 Technical Specification requirements utilizing an original sample size of 6 percent. An indication requiring plugging in the original 6 percent random sample resulted in expanding the scope to include an additional 12 percent sample. Another indication requiring plugging in the 12 percent sample caused an additional 24 percent sample to be examined. In total, seven thousand four hundred eighty three (7483) or forty eight (48) percent of the tubes were examined with the bobbin probe and three hundred nineteen or two (2) percent of the tubes being examined with MRPC. No tubes with a through wall indication less than 20 percent were identified, 11 tubes had indications between 20 and 39 percent, and 9 tubes had through wall indications greater than 39 percent. The 9 tubes with through wall indications greater than 39 percent were plugged.

Detailed examination results are contained in the 7th Refueling Outage Steam Generator Eddy Current Inspection Report which is available for review at the Davis Besse site.



# FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Toledo Edison Company, 300 Madison Ave., Toledo, Ohio 43652  
(Name and Address of Owner)
2. Plant Davis-Besse Nuclear Power Station, Oak Harbor, OH 43449  
(Name and Address of Plant)
3. Plant Unit #1 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 11/21/77 6. National Board Number for Unit N/A
7. Components Inspected Manual NDE Examinations

| Component or Appurtenance | Manufacturer or Installer | Manufacturer or Installer Serial No. | State or Province No. | National Board No. |
|---------------------------|---------------------------|--------------------------------------|-----------------------|--------------------|
| RPV                       | Babcock & Wilcox          | 620-0014-51, 52                      |                       | 156                |
| Pressurizer               | Babcock & Wilcox          | 620-0014-59                          |                       | 157                |
| Steam Generators          | Babcock & Wilcox          | 620-0014-55 11, 12                   |                       | 158, 159           |
| Class 1 Primary Piping    | Babcock & Wilcox          | Various                              |                       |                    |
| Class 1 Valves            | Various                   | Various                              |                       |                    |
| Class 2 Press. Vessels    | Various                   | Various                              |                       |                    |
| Class 2 Piping            | ITT Grinnell              | Various                              |                       |                    |
| Class 2 Pumps             | Various                   | Various                              |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-1 (back)

8. Examination Dates 08/31/91 to 11/08/91 9. Inspection Interval from Sept 1990 to Sept 2000
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See 1991 7RFO Inservice Inspection Report
11. Abstract of Conditions Noted  
See 1991 7RFO Inservice Inspection Report
12. Abstract of Corrective Measures Recommended and Taken  
See 1991 7RFO Inservice Inspection Report

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date 12-11 19 91 Signed Toledo Edison, Co. By [Signature]  
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Ohio and employed by H.S.B.I. & I. CO. of Hartford, CT have inspected the components described in this Owners' Data Report during the period Sept. 1991 to Nov. 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date DEC. 19 19 91

[Signature]  
Inspector's Signature

Commissions NE-9800, Ohio Comm. (B.N.I.)  
National Board, State, Province and No.



### Nondestructive Examinations

The Nondestructive Examinations were completed by Toledo Edison and ASEA Brown Boveri/ Combustion Engineering personnel from August 1991 to October 1991 during the 7th Refueling Outage for the Davis Besse Nuclear Power Station Unit #1. The nondestructive examinations were conducted in accordance with the requirements of the 1986 Edition of the ASME Boiler and Pressure Vessel Code as described in the Second Ten Year Interval Inservice Inspection Program Plan. These examinations complete a portion of the examinations required to be performed in the first period of the inspection interval.

The attached table summarizes the examination data for the ASME Class 1 and 2 components. All examination results were acceptable. An entry in the PCAQ Number column identifies the Potential Condition Adverse to Quality Report used to evaluate and disposition indications.

Detailed examination results are contained the 7th Refueling Outage Inservice Inspection Report which is available for review at the Davis Besse site.



TOLEDO EDISON COMPANY DAVIS BESSE UNIT 1  
OUTAGE NO. 7RFO

| COMPONENT      | FIGURE NUMBER  | EXAMINATION<br>ACCEPTABLE |    | PCAQ<br>NUMBER | DATE<br>EXAMINED | COMMENTS     |
|----------------|----------------|---------------------------|----|----------------|------------------|--------------|
|                |                | YES                       | NO |                |                  |              |
| REACTOR VESSEL | B01.030.519.1  | X                         |    |                | 10/07/91         |              |
| PRESSURIZER    | B03.110.6.1    | X                         |    |                | 09/25/91         |              |
| PRESSURIZER    | B03.110.7.1    | X                         |    |                | 09/25/91         |              |
| PRESSURIZER    | B03.120.11.1   | X                         |    |                | 09/25/91         |              |
| PRESSURIZER    | B03.120.12.1   | X                         |    |                | 09/25/91         |              |
| PRESSURIZER    | B05.050.18.1   | X                         |    |                | 09/21/91         |              |
| RCS PIPING     | B05.130.322.1  | X                         |    |                | 10/01/91         |              |
| RCS PIPING     | B05.130.322.2  | X                         |    |                | 09/18/91         |              |
| RCS PIPING     | B05.140.325.1  | X                         |    |                | 09/28/91         |              |
| REACTOR VESSEL | B06.040.9235.1 | X                         |    |                | 10/07/91         | PARTIAL EXAM |
| PRESSURIZER    | B06.060.33.1   | X                         |    |                | 09/21/91         |              |
| PRESSURIZER    | B06.060.34.1   | X                         |    |                | 09/21/91         |              |
| PRESSURIZER    | B06.060.35.1   | X                         |    |                | 09/21/91         |              |
| PRESSURIZER    | B06.060.36.1   | X                         |    |                | 09/21/91         |              |



TOLEDO EDISON COMPANY DAVIS BESSE UNIT 1  
OUTAGE NO. 7RFO

| COMPONENT       | FIGURE NUMBER  | EXAMINATION ACCEPTABLE |    | PCAQ NUMBER | DATE EXAMINED | COMMENTS              |
|-----------------|----------------|------------------------|----|-------------|---------------|-----------------------|
|                 |                | YES                    | NO |             |               |                       |
| PRESSURIZER     | B06.080.22.1   | X                      |    |             | 09/18/91      |                       |
| PRESSURIZER     | B06.080.8196.1 | X                      |    |             | 09/18/91      |                       |
| PRESSURIZER     | B06.080.8197.1 | X                      |    |             | 09/18/91      |                       |
| PRESSURIZER     | B06.080.8198.1 | X                      |    |             | 09/18/91      |                       |
| PRESSURIZER     | B07.020.23.1   | X                      |    |             | 09/18/91      |                       |
| RCS FLANGE BLTG | B07.050.223.1  | X                      |    |             | 09/20/91      |                       |
| RCS FLANGE BLTG | B07.050.4719.1 | X                      |    |             | 09/18/91      |                       |
| DH VALVE BLTG   | B07.070.2761.1 | X                      |    |             | 09/17/91      |                       |
| CF PIPING       | B09.C11.68.1   | X                      |    |             | 10/05/91      |                       |
| CF PIPING       | B09.011.68.2   | X                      |    |             | 10/01/91      |                       |
| CF PIPING       | B09.011.70.2   | X                      |    |             | 09/17/91      |                       |
| DH PIPING       | B09.011.98.1   | X                      |    |             | 09/30/91      |                       |
| DH PIPING       | B09.011.98.2   | X                      |    |             | 09/28/91      |                       |
| DH PIPING       | B09.011.100.1  | X                      |    | 91-0484     | 10/05/91      | INDICATION ACCEPTABLE |
| DH PIPING       | B09.011.100.2  | X                      |    |             | 10/05/91      |                       |
| DH PIPING       | B09.011.108.2  | X                      |    |             | 09/14/91      |                       |



TOLEDO EDISON COMPANY DAVIS BESSE UNIT 1  
OUTAGE NO. 7RFO

| COMPONENT  | FIGURE NUMBER | EXAMINATION ACCEPTABLE |    | PCAQ NUMBER | DATE EXAMINED | COMMENTS |
|------------|---------------|------------------------|----|-------------|---------------|----------|
|            |               | YES                    | NO |             |               |          |
| RCS PIPING | B09.011.191.1 | X                      |    |             | 09/27/91      |          |
| RCS PIPING | B09.011.191.2 | X                      |    |             | 09/27/91      |          |
| RCS PIPING | B09.011.224.1 | X                      |    |             | 10/03/91      |          |
| RCS PIPING | B09.011.224.2 | X                      |    |             | 09/21/91      |          |
| RCS PIPING | B09.011.312.1 | X                      |    |             | 10/14/91      |          |
| RCS PIPING | B09.011.312.2 | X                      |    |             | 10/13/91      |          |
| RCS PIPING | B09.011.352.1 | X                      |    |             | 10/01/91      |          |
| RCS PIPING | B09.011.352.2 | X                      |    |             | 10/01/91      |          |
| RCS PIPING | B09.012.313.1 | X                      |    |             | 10/14/91      |          |
| RCS PIPING | B09.012.313.2 | X                      |    |             | 10/13/91      |          |
| RCS PIPING | B09.012.314.1 | X                      |    |             | 10/14/91      |          |
| RCS PIPING | B09.012.314.2 | X                      |    |             | 10/13/91      |          |
| RCS PIPING | B09.012.323.1 | X                      |    |             | 09/28/91      |          |
| RCS PIPING | B09.012.323.2 | X                      |    |             | 09/28/91      |          |
| RCS PIPING | B09.012.324.1 | X                      |    |             | 09/28/91      |          |
| RCS PIPING | B09.012.324.2 | X                      |    |             | 09/ 3/91      |          |



TOLEDO EDISON COMPANY DAVIS BESSE UNIT 1  
OUTAGE NO. 7RFO

| COMPONENT  | FIGURE NUMBER | EXAMINATION ACCEPTABLE |    | PCAQ NUMBER | DATE EXAMINED | COMMENTS |
|------------|---------------|------------------------|----|-------------|---------------|----------|
|            |               | YES                    | NO |             |               |          |
| RCS PIPING | B09.012.353.1 | X                      |    |             | 10/01/92      |          |
| RCS PIPING | B09.012.353.2 | X                      |    |             | 10/01/91      |          |
| RCS PIPING | B09.012.354.1 | X                      |    |             | 10/01/91      |          |
| RCS PIPING | B09.012.354.2 | X                      |    |             | 10/01/91      |          |
| HP PIPING  | B09.021.58.1  | X                      |    |             | 09/28/91      |          |
| MU PIPING  | B09.021.167.1 | X                      |    |             | 09/19/91      |          |
| MU PIPING  | B09.021.178.1 | X                      |    |             | 09/19/91      |          |
| RCS PIPING | B09.021.201.1 | X                      |    |             | 09/21/91      |          |
| RCS PIPING | B09.021.210.1 | X                      |    |             | 09/17/91      |          |
| RCS PIPING | B09.021.225.1 | X                      |    |             | 09/27/91      |          |
| RCS PIPING | B09.021.227.1 | X                      |    |             | 09/28/91      |          |
| RCS PIPING | B09.021.328.1 | X                      |    |             | 09/28/91      |          |
| RCS PIPING | B09.031.280.1 | X                      |    |             | 09/26/91      |          |
| RCS PIPING | B09.031.280.2 | X                      |    |             | 09/26/91      |          |
| RCS PIPING | B09.031.286.1 | X                      |    |             | 09/27/91      |          |
| RCS PIPING | B09.031.286.2 | X                      |    |             | 09/24/91      |          |



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| COMPONENT       | FIGURE NUMBER  | EXAMINATION<br>ACCEPTABLE |    | PCAQ<br>NUMBER | DATE<br>EXAMINED | COMMENTS          |
|-----------------|----------------|---------------------------|----|----------------|------------------|-------------------|
|                 |                | YES                       | NO |                |                  |                   |
| RCS PIPING      | B09.040.119.1  | X                         |    |                | 09/14/91         |                   |
| RCS PIPING      | B09.040.151.1  | X                         |    |                | 09/14/91         |                   |
| DH PIPING       | B10.010.109.1  | X                         |    |                | 09/13/91         |                   |
| CONTROL ROD DR  | B14.010.711.1  | X                         |    |                | 10/03/91         |                   |
| STEAM GENERATOR | C01.030.2207.1 | X                         |    |                | 09/28/91         | SUPPLEMENTAL EXAM |
| STEAM GENERATOR | C02.021.2209.1 | X                         |    |                | 09/26/91         | SUPPLEMENTAL EXAM |
| STEAM GENERATOR | C02.021.2210.1 | X                         |    |                | 09/26/91         |                   |
| DH COOLER       | C02.033.2663.1 | X                         |    |                | 09/26/91         |                   |
| DH COOLER       | C02.033.2664.1 | X                         |    |                | 09/26/91         |                   |
| HP PIPING       | C03.020.1715.1 | X                         |    |                | 09/17/91         |                   |
| HP PIPING       | C03.020.1745.1 | X                         |    |                | 09/17/91         |                   |
| MS PIPING       | C03.020.3109.1 | X                         |    |                | 09/06/91         |                   |
| FW PIPING       | C03.020.3468.1 | X                         |    |                | 09/23/91         |                   |
| FW PIPING       | C03.020.3496.1 | X                         |    |                | 09/24/91         |                   |
| MS PIPING       | C03.020.4456.1 | X                         |    |                | 09/24/91         |                   |
| AF PIPING       | C03.020.5844.1 | X                         |    |                | 08/24/91         |                   |



TOLEDO EDISON COMPANY DAVIS BESSE UNIT 1  
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| COMPONENT | FIGURE NUMBER   | EXAMINATION ACCEPTABLE |    | PCAQ NUMBER | DATE EXAMINED | COMMENTS |
|-----------|-----------------|------------------------|----|-------------|---------------|----------|
|           |                 | YES                    | NO |             |               |          |
| FW PIPING | C03.020.7164.1  | X                      |    |             | 09/23/91      |          |
| HPI PUMP  | C03.030.2678.1  | X                      |    |             | 08/22/91      |          |
| HPI PUMP  | C03.030.2684.1  | X                      |    |             | 08/22/91      |          |
| HPI PUMP  | C04.030.2715.1  | X                      |    |             | 09/12/91      |          |
| HPI PUMP  | C04.030.2720.1  | X                      |    |             | 09/12/91      |          |
| HPI PUMP  | C04.030.2722.1  | X                      |    |             | 09/12/91      |          |
| HPI PUMP  | C04.030.2725.1  | X                      |    |             | 09/12/91      |          |
| HPI PUMP  | C04.030.2727.1  | X                      |    |             | 09/12/91      |          |
| HPI PUMP  | C04.030.2730.1  | X                      |    |             | 09/12/91      |          |
| HPI PUMP  | C04.030.2732.1  | X                      |    |             | 09/13/91      |          |
| DH PIPING | C05.011.2365.1  | X                      |    |             | 09/13/91      |          |
| DH PIPING | C05.011.2365.2  | X                      |    |             | 09/11/91      |          |
| DH PIPING | C05.011A.1248.1 | X                      |    |             | 08/21/91      |          |
| CS PIPING | C05.011A.1265.1 | X                      |    |             | 08/20/91      |          |
| DH PIPING | C05.011A.2094.1 | X                      |    |             | 08/19/91      |          |
| DH PIPING | C05.011A.2102.1 | X                      |    |             | 08/22/91      |          |



TOLEDO EDISON COMPANY DAVIS BESSE UNIT 1  
OUTAGE NO. 7RFO

| COMPONENT | FIGURE NUMBER  | EXAMINATION<br>ACCEPTABLE |    | PCAQ<br>NUMBER | DATE<br>EXAMINED | COMMENTS |
|-----------|----------------|---------------------------|----|----------------|------------------|----------|
|           |                | YES                       | NO |                |                  |          |
| DH PIPING | C05.11A.146.1  | X                         |    |                | 08/19/91         |          |
| DH PIPING | C05.11A.176.1  | X                         |    |                | 08/22/91         |          |
| HP PIPING | C05.021.1645.1 | X                         |    |                | 10/02/91         |          |
| HP PIPING | C05.021.1645.2 | X                         |    |                | 09/11/91         |          |
| HP PIPING | C05.021.5589.1 | X                         |    |                | 08/21/91         |          |
| HP PIPING | C05.021.5589.2 | X                         |    |                | 08/21/91         |          |
| HP PIPING | C05.21A.6034.1 | X                         |    |                | 08/23/91         |          |
| MS PIPING | C05.051.3006.1 | X                         |    |                | 09/05/91         |          |
| MS PIPING | C05.051.3006.2 | X                         |    |                | 09/05/91         |          |
| MS PIPING | C05.051.3013.1 | X                         |    |                | 09/06/91         |          |
| MS PIPING | C05.051.3013.2 | X                         |    |                | 09/05/91         |          |
| FW PIPING | C05.051.3478.1 | X                         |    |                | 10/05/91         |          |
| FW PIPING | C05.051.3478.2 | X                         |    |                | 10/04/91         |          |
| AF PIPING | C05.051.3521.1 | X                         |    |                | 09/21/91         |          |
| AF PIPING | C05.051.3521.2 | X                         |    |                | 09/19/91         |          |
| MS PIPING | C05.51A.3357.1 | X                         |    |                | 09/04/91         |          |



TOLEDO EDISON COMPANY DAVIS BESSE UNIT 1  
OUTAGE NO. 7RFO

| COMPONENT      | FIGURE NUMBER  | EXAMINATION ACCEPTABLE |    | PCAQ NUMBER | DATE EXAMINED | COMMENTS  |
|----------------|----------------|------------------------|----|-------------|---------------|---|
|                |                | YES                    | NO |             |               |   |
| MS PIPING      | C05.052.3012.1 | X                      |    |             | 09/06/91      |   |
| MS PIPING      | C05.052.3012.2 | X                      |    |             | 09/05/91      |   |
| MS PIPING      | C05.052.3014.1 | X                      |    |             | 09/06/91      |   |
| MS PIPING      | C05.052.3014.2 | X                      |    |             | 09/05/91      |   |
| FW PIPING      | C05.081.4611.1 | X                      |    |             | 09/23/91      |   |
| FW PIPING      | C05.081.4635.1 | X                      |    |             | 09/23/91      |   |
| HPI PUMP       | C06.010.2677.1 | X                      |    |             | 08/22/91      |   |
| ATM VENT VALVE | C06.020.2643.1 | X                      |    |             | 09/06/91      |   |
| RCS HANGER     | F01.010.4647.1 | X                      |    |             | 09/12/91      |   |
| RCS HANGER     | F01.010.4651.1 | X                      |    |             | 09/09/91      |   |
| RCS HANGER     | F01.010.4658.1 | X                      |    |             | 09/20/91      |   |
| RCS HANGER     | F01.010.4659.1 | X                      |    |             | 09/17/91      |   |
| RCS ANCHOR     | F01.010.4711.1 | X                      |    |             | 09/09/91      |   |
| RCS HANGER     | F01.010.4742.1 | X                      |    | 91-0374     | 09/16/91      | LOOSE CLAMP/LOW FLUID/<br>PISTON SETTING OUT OF<br>TOLERANCE - ACCEPTABLE |
| MU HANGER      | F01.010.4757.1 | X                      |    |             | 09/19/91      |   |



TOLEDO EDISON COMPANY DAVIS BESSE UNIT 1  
OUTAGE NO. 7RFO

| COMPONENT | FIGURE NUMBER  | EXAMINATION ACCEPTABLE |    | PCAQ NUMBER | DATE EXAMINED | COMMENTS                                |
|-----------|----------------|------------------------|----|-------------|---------------|---|
|           |                | YES                    | NO |             |               |   |
| DH HANGER | F01.010.4766.1 | X                      |    | 91-0389     | 09/13/91      | IMPROPER COLD SETTING<br>ACCEPTABLE     |
| HP HANGER | F01.020.3251.1 | X                      |    |             | 09/13/91      |   |
| HP ANCHOR | F01.020.3261.1 | X                      |    |             | 09/17/91      |   |
| DH HANGER | F01.020.4468.1 | X                      |    |             | 09/19/91      |   |
| AF HANGER | F01.020.4575.1 | X                      |    | 91-0343     | 09/09/91      | LOOSE/ MISSING BOLTS<br>ACCEPTABLE      |
| FW ANCHOR | F01.020.4594.1 | X                      |    |             | 09/06/91      |   |
| FW HANGER | F01.020.4601.1 | X                      |    |             | 09/23/91      |   |
| MS HANGER | F01.020.8283.1 | X                      |    | 91-0350     | 09/06/91      | RUST ON SPHERICAL<br>BEARING ACCEPTABLE |
| DH HANGER | F01.20A.2878.1 | X                      |    |             | 08/28/91      |   |
| DH ANCHOR | F01.20A.2892.1 | X                      |    |             | 08/22/91      |   |
| HP HANGER | F01.20A.3177.1 | X                      |    |             | 08/22/91      |   |
| DH HANGER | F01.20A.3201.1 | X                      |    |             | 08/20/91      |   |
| DH HANGER | F01.20A.3707.1 | X                      |    |             | 08/22/91      |   |
| CS HANGER | F01.20A.3786.1 | X                      |    |             | 08/22/91      |   |
| MS HANGER | F01.20A.4538.1 | X                      |    |             | 09/06/91      |   |



As required by the Provisions of the ASME Code Rules

### 7. Components Inspected System Pressure Tests

[illegible]

This form (E00029) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017



FORM NIS-1 (back)

8. Examination Dates Sept 1990 to Nov 1991 9. Inspection Interval from Sept 1990 to Sept 2000
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Note 1
11. Abstract of Conditions Noted. Note 2
12. Abstract of Corrective Measures Recommended and Taken

All Corrective Measures are identified in the specific test packages and are available for review at the plant site.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date Jan. 1 19 92 Signed Toledo Edison Co By [Signature]  
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Ohio and employed by H.S.B.I. & I. Co. of Hartford, CT have inspected the components described in this Owners' Data Report during the period Sept. 1990 to Nov. 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-15 19 92

[Signature] Commissions NB-9800, Ohio Comm. (B.N. & I.)  
Inspector's Signature National Board, State, Province and No.

10. Note 1 This form is for the pressure testing performed during the above dates. The specific tests performed are incorporated in the ISI Summary Report (Section 4).
11. Note 2 All system pressure testing results are contained in the specific test packages and are available for review at the plant site.



## SYSTEM PRESSURE TESTS

Below is a listing of the ASME Section XI System Pressure Testing performed from the beginning of the Second Ten Year Interval (September 21, 1990) through the Seventh Refueling Outage (November 4, 1991), as witnessed and/or verified by M. Ferguson, ANIL. These tests were performed in accordance with ASME Section XI and the Inservice Inspection (ISI) submittal with the exception of the submittal relief requests.

August/October/November/1991 (7RF0)

### Auxiliary Feedwater System

Auxiliary Feedwater Pump 1-1 Suction and Minimum Recirculation Lines Functional Test per DB-PF-03065 (AF001, AF003) (November 3, 1991).

Auxiliary Feedwater Pump 1-1 Cooling Lines Hydrotest per DB-PF-03065 (AF004) (September 7, 1991).

Auxiliary Feedwater Pump 1-2 Suction and Minimum Recirculation Lines Functional Test per DB-PF-03065 (AF005, AF007) (November 5, 1991).

### Component Cooling Water

Component Cooling Water Surge Tank Hydro/Pneumatic Test per DB-PF-03065 (CC001) (September 21, 1991).

Primary Demineralized Water to Component Cooling Water Surge Tank Hydrotest per DB-PF-03065 (CC002) (September 4, 1991).

Component Cooling Water Pump 1-2 and Heat Exchanger Hydrotest per DB-PF-03065 (CC017) (October 4, 1991).

Component Cooling Water Line 2 Hydrotest per DB-PF-03065 (CC018A) (October 4, 1991).

Emergency Diesel Generator Number 2 Heat Exchanger Hydrotest per DB-PF-03065 (CC018B) (October 4, 1991).

Component Cooling Water to CTMT Gas Analyzer System Heat Exchanger 2 Hydrotest per DB-PF-03065 (CC018C, (October 4, 1991).

### Containment Spray

Containment Spray Train 1 Functional Test per DB-PF-03065 (CS001, CS002) (August 27, 1991).

### Containment Ventilation

Containment Vessel Leak Test Line Functional Test per DB-PF-03065 (CV001) (October 21, 1991).



### Containment Ventilation (continued)

Containment Hydrogen and Airborne Radiation Sample Line Functional Test per DB-PF-03065 (CV002) (September 8, 1991).

Hydrogen and Airborne Radiation Sample Line (CRMT P68B) (CV003) (September 7, 1991).

Containment Hydrogen and Airborne Radiation Sample Lines Functional Test per DB-PF-03065 (CV004) (September 8, 1991).

Containment Hydrogen and Airborne Radiation Sample Lines Functional Test per DB-PF-03065 (CV005) (September 7, 1991).

Containment Hydrogen and Airborne Radiation Sample Lines Functional Test per DB-PF-03065 (CV007) (September 9, 1991).

Containment Vacuum Breaker (P8A) (MWO 2-90-0019-01:CV5070 Replacement) Functional Test per DB-PF-03065 (CV022) (October 14, 1991).

Containment Vacuum Breaker (P8E) (MWO 2-90-0019-02:CV5074 Replacement) Functional Test per DB-PF-03065 (CV026) (October 14, 1991).

Containment Vacuum Breaker (P8H) Functional Test per DB-PF-03065 (CV029) (September 10, 1991).

Containment Vacuum Breaker (P8I) Functional Test per DB-PF-03065 (CV030) (September 10, 1991).

Containment Vacuum Breaker (P8J) Functional Test per DB-PF-03065 (CV031) (September 10, 1991).

### Core Flood

Core Flood Tank 2 Inservice Test per DB-PF-03065 (CF002) (October 31, 1991).

Common Core Flood Tank Vent Line (P47B) Functional Test per DB-PF-03065 (CF003) (October 22, 1991).

Core Flood Tank 1-2 Fill Line (P44A) Functional Test per DB-PF-03065 (CF004) (September 16, 1991).

Core Flood Tank 1 Discharge to RCS Inservice Test per DB-PF-03065 (CF007) (November 2, 1991).

Core Flood Tank 2 Discharge to RCS Inservice Test per DB-PF-03065 (CF008) (November 2, 1991).



#### Decay Heat

Reactor Coolant System to Decay Heat Pump Suction, Normal Path, Functional Test per DB-PF-03065 (DH014) (September 28, 1991).

Reactor Coolant System to Decay Heat Pump Suction, Bypass Path, Functional Test per DB-PF-03065 (DH015) (October 14, 1991).

#### Diesel Air Start

EDG Starting Air Receiver 1-1 Inservice Test per DB-PF-03065 (DA001) (August 14, 1991).

EDG Starting Air Receiver 2-1 Pneumatic Test (DA31 Replacement MWO 1-88-0702-00) per DB-PF-03065 (DA003) (May 30, 1991).

#### Diesel Fuel Oil

Fuel Oil Storage Tank 1-1 Functional Test per DB-PF-03065 (D0001) (September 27, 1991).

Fuel Oil Day Tank 1-1 Inservice Test per DB-PF-03065 (D0002) (August 14, 1991).

Repair/Replacement Pneumatic Test for MWO 2-87-1208-09 Spoolpiece per DB-PF-03065 (May 30, 1991).

#### Demineralized Water

Demineralized Water Supply to Containment Inservice Test per DB-PF-03065 (DWO01) (October 2, 1991).

#### High Pressure Injection

High Pressure Injection Train 1 Suction Piping Hydrotest per DB-PF-03065 (HPO01) (September 6, 1991).

#### Instrument Air

Instrument Air to Containment Penetration 43A Inservice Test per DB-PF-03065 (IA001) (October 9, 1991).

#### Main Steam

Steam Generator Secondary Cleaning Penetration 59 Functional Test per DB-PF-03065 (MS003) (October 23, 1991).

Auxiliary Feed Pump Turbine 1-1 Exhaust Line to Atmosphere Functional Test per DB-PF-03065 (MS004) (November 3, 1991).

Auxiliary Feed Pump Turbine 1-2 Exhaust Line to Atmosphere Functional Test per DB-PF-03065 (MS005) (November 3, 1991).

Repair and Replacement Hydrotest for MWO 1-88-2084-00 (Valve MS394) per DB-PF-03065 (October 23, 1991).



#### Makeup and Purification

Repair and Replacement Hydrotest for MWO 1-89-0698-00 (Valve MU222) per DB-PF-03065 (October 21, 1991).

#### Nitrogen

Nitrogen to Containment Supply Penetration 44B Inservice Test per DB-PF-03065 (NNO01) (October 8, 1991).

#### Reactor Coolant

Reactor Coolant System Leakage Test per DB-PF-03065 (RC001L, CF009, CF010, DH016, RC002) (November 2, 1991). Post-Maintenance for Maintenance Work Orders as Listed in Test Procedure.

Pressurizer Quench Tank to Circulation Pump (Penetration 48) and Circulation Pump to Quench Tank (Penetration 41) Inservice Test per DB-PF-03065 (RC005 and RC006) (October 24, 1991) (MWO 1-91-1217-00:Repair/Replacement RC232).

Penetration 48 Pressure Loss Test for Buried Piping per DB-PF-03065 (RC005) (October 25, 1991).

Drains to RC Drain Tank (Penetration 32) Functional Test per DB-PF-03065 (RC007) (October 24, 1991) (MWO 1-91-1208-00:Repair/Replacement RC1773B).

#### Station Air

Station Air to Containment Penetration 42A Inservice Test per DB-PF-03065 (SA001) (September 19, 1991).

#### Spent Fuel Pool Cooling

Spent Fuel Transfer Tube 1-1 Functional Test per DB-PF-03065 (SF001) (October 21, 1991).

Spent Fuel Transfer Tube 1-2 Functional Test per DB-PF-03065 (SF002) (October 21, 1991).

Spent Fuel Pool to DH and SF Pump Suction Inservice Test per DB-PF-03065 (SF003) (September 30, 1991).

Spent Fuel Pool Pump Suction from Spent Fuel Pool to SF3 Inservice Test per DB-PF-03065 (SF004) (September 30, 1991).

Spent Fuel Pool Pump Suction from Spent Fuel Pool to SF4 Inservice Test per DB-PF-03065 (SF005) (September 30, 1991).

#### Service Water

Service Water Pump 1-1 Discharge to SW17 Inservice Test per DB-PF-03065 (SW001) (September 30, 1991).



Service Water (continued)

Service Water Train 1 Hydrotest per DB-PF-03065 (SW002) (September 28, 1991).

Service Water Train 1 Supply to ECCS Room Cooler Coils Hydrotest per DB-PF-03065 (SW004A) (Repair/Replacement: MW0s 2-90-0059-03, -04, -02, -07, and -08) (September 18, 1991).

Control Room Emergency Condenser 1-1 Hydrotest per DB-PF-03065 (SW004B) (September 18, 1991).

Service Water Supply to Auxiliary Feedwater Hydrotest per DB-PF-03065 (SW006) (October 1, 1991).

Service Water to Hydrogen Dilution System Blower Hydrotest per DB-PF-03065 (SW007) (October 11, 1991).

Service Water Train 2 per DB-PF-03065 (SW009) (Repair/Replacement: MW0 2-90-0059-09) (October 2, 1991).

Spoolpiece Hydrotest per DB-PF-03065 (Repair/Replacement: MW0 2-87-1315-04) (October 4, 1991).

Service Water to CCW Heat Exchanger 1-2 Hydrotest per DB-PF-03065 (SW010) (October 7, 1991).

Service Water Train 2 Supply to ECCS Room Cooler Coils Hydrotest per DB-PF-03065 (SW011A) (Repair/Replacement: MW0s 2-90-0059-09, -10, -11, -12, -13, -14, and -15) (October 3, 1991).

Service Water to Control Room Emergency Condenser 1-2 Hydrotest per DB-PF-03065 (SW011B) (September 27, 1991).

Service Water to ECCS Cooler 1-1 Hydrotest per DB-PF-03065 (SW020) (September 25, 1991).

Service Water to ECCS Cooler 1-2 Hydrotest per DB-PF-03065 (SW021) (September 22, 1991).

Service Water to ECCS Cooler 1-3 Hydrotest per DB-PF-03065 (SW022) (May 31, 1991).

Service Water Return from ECCS Coils Hydrotest per DB-PF-03065 (SW026, SW027, and SW025 partial) (Repair/Replacement: MW0s 2-90-0059-05 and -06) (September 26, 1991).

Service Water Return from ECCS Coils Hydrotest per DB-PF-03065 (SW025 partial) (Repair/Replacement: MW0s 2-90-0059-05 and -06) (September 21, 1991).

Repair/Replacement Hydrotest for MW0 1-91-1236-00 per DB-PF-03065 (October 8, 1991).



Service Water (continued)

Spoolpieces Hydrotests per DB-PF-03065 (Repair/Replacement for MOD 90-59 per MWO 2-90-0059-15) (August, 1991).

Spoolpiece Hydrotest of Service Water Outlet of CCW Heat Exchanger 1-3 per DB-PF-03065 (Repair/Replacement: MWO 2-87-1315-03) (February 21, 1991).



### Repairs and Replacements

The following repairs and replacements on ASME Class 1 and 2 components were performed on the Davis Besse Nuclear Power Station Unit #1 since July 1990, which marked the completion of the Sixth Refueling Outage and the completion of the 7th Refueling outage in November 1991.

Documentation for these repairs and replacements is available for review.

| Maintenance Work Order #  | System          | Description  |
|---------------------------|-----------------|--|
| 1-88-1952-06              | Main Steam      | Removed and reinstalled<br>2 modified safety valves<br>Removed instrumentation |
| 1-88-1952-07              | Main Steam      | Removed and reinstalled<br>2 modified safety valves<br>Removed instrumentation |
| 1-88-2084-00              | Main Steam      | Replaced valve MS 394  |
| 1-89-1222-00 thru 05      | Main Steam      | Removed and reinstalled<br>5 modified safety valves                            |
| 1-89-1222-02 & 06         | Main Steam      | Repaired 2 safety valves<br>and replaced flange<br>studs                       |
| 1-89-1222-10              | Main Steam      | Repaired 1 safety valve<br>and replaced flange<br>bolting                      |
| 1-89-1222-07,08,11,12,&13 | Main Steam      | Removed and reinstalled<br>5 modified safety valves                            |
| 1-89-1671-00              | Reactor Coolant | Replaced valve RC 13B  |
| 1-90-0335-01              | Station Air     | Repaired valve SA 2010   |
| 1-90-1368-03/1-90-1377-00 | Reactor Coolant | Replaced valve RC 11   |
| 1-90-1603-01, 03, & 06    | Reactor Coolant | Replaced valve RC 13A  |
| 1-90-1603-02, 04, & 05    | Reactor Coolant | Replaced valve RC 13B  |
| 1-90-2091-00              | Reactor Coolant | Repaired valve RC 2  |
| 1-90-2342-00              | Decay Heat      | Replaced 3 valves in<br>suction gage piping                                    |



| Maintenance Work Order #  | System          | Description                        |
|---------------------------|-----------------|------------------------------------|
| 1-91-0049-00              | Main Steam      | Repaired valve MS 734              |
| 1-91-0207-00(A123 & A124) | Decay Heat      | Replaced Hydraulic Snubbers        |
| 1-91-0219-00(A87 & A91)   | Decay Heat      | Replaced Hydraulic Snubbers        |
| 1-91-0221-10              | Reactor Coolant | Repaired/replaced tube plugs       |
| 1-91-0223-00              | Decay Heat      | Replaced Hydraulic Snubbers        |
| 1-91-0223-01              | Decay Heat      | Replaced Hydraulic Snubber         |
| 1-91-0223-02              | Decay Heat      | Replaced Hydraulic Snubber         |
| 1-91-0283-00              | Main Steam      | Repaired Hydraulic Snubber         |
| 1-91-0283-01              | Main Steam      | Replaced Hydraulic Snubber         |
| 1-91-0283-04              | Main Steam      | Replaced Hydraulic Snubber         |
| 1-91-0333-00(C253 & C288) | Decay Heat      | Replaced Hydraulic Snubber         |
| 1-91-0348-00              | Main Steam      | Repaired valve ICS 11B             |
| 1-91-0348-01              | Main Steam      | Repaired valve ICS 11A             |
| 1-91-0421-02              | Reactor Coolant | Replaced Hydraulic Snubber         |
| 1-91-0421-03              | Reactor Coolant | Replaced Hydraulic Snubber         |
| 1-91-0430-00              | Reactor Coolant | Replaced flange stud/nut           |
| 1-91-0430-03 & 06         | Reactor Coolant | Replaced Control Rod Drive bolting |



| Maintenance Work Order # | System                | Description                |
|--------------------------|-----------------------|----------------------------|
| 1-91-0445-00             | Steam Generator Drain | Replaced Hydraulic Snubber |
| 1-91-0445-01             | Steam Generator Drain | Repaired Hydraulic Snubber |
| 1-91-0445-02             | Steam Generator Drain | Repaired Hydraulic Snubber |
| 1-91-0445-03             | Steam Generator Drain | Repaired Hydraulic Snubber |
| 1-91-0445-04             | Steam Generator Drain | Repaired Hydraulic Snubber |
| 1-91-0445-05             | Steam Generator Drain | Repaired Hydraulic Snubber |
| 1-91-0463-00             | Decay Heat            | Replaced Hydraulic Snubber |
| 1-91-0473-00             | Containment Spray     | Replaced Hydraulic Snubber |
| 1-91-0474-00             | Decay Heat            | Replaced Hydraulic Snubber |
| 1-91-0475-00             | Decay Heat            | Replaced Hydraulic Snubber |
| 1-91-0532-00             | Main Feedwater        | Repaired Hydraulic Snubber |
| 1-91-0534-00             | Main Feedwater        | Repaired Hydraulic Snubber |
| 1-91-0544-00             | Main Feedwater        | Repaired Hydraulic Snubber |
| 1-91-0544-01             | Main Feedwater        | Repaired Hydraulic Snubber |
| 1-91-0544-02             | Main Feedwater        | Repaired Hydraulic Snubber |
| 1-91-0612-               | Decay Heat            | Replaced Hydraulic Snubber |
| 1-91-1208-00             | Reactor Coolant       | Repaired valve RC 1773B    |
| 1-91-1217-00             | Reactor Coolant       | Repaired valve RC 232      |
| 1-91-1268-00             | Pressurizer           | Replaced manway stud       |



| Maintenance Work Order #         | System                  | Description                 |
|----------------------------------|-------------------------|-----------------------------|
| 1-91-1274-00                     | Main Steam              | Replaced Hydraulic Snubber  |
| 2-90-0013-14                     | Main Steam              | Replaced Hydraulic Snubber  |
| 2-90-0019-01                     | Containment             | Installed valve CV 5070     |
| 2-90-0019-02                     | Containment             | Installed valve CV 5074     |
| 2-90-0079-03                     | Reactor Coolant         | Replaced Hydraulic Snubbers |
| 2-90-0079-05                     | Reactor Coolant         | Replaced Hydraulic Snubbers |
| 2-90-0079-06                     | Reactor Coolant         | Replaced Hydraulic Snubbers |
| 7-90-0695-01                     | High Pressure Injection | Repaired valve HP 2B        |
| Drawing Change Notice<br>91-0036 | High Pressure Injection | Re-rated piping             |



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date January 2, 1991  
 Name 300 Madison Ave., Toledo, OH 43652 sheet 1 of 1  
 Address
2. Plant Davis Besse Nuclear Power Station Unit #1  
 Name 5501 North SR. 2, Oak Harbor, OH 43449 1-88-1952-06  
 Address Repair Organisation P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp 1"  
 Name 5501 North SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7-17-92
4. Identification of Systems Main Steam
5. (a) Applicable Construction Code III 19 68 Edition W 68 Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77 S78  
 (c) Design Responsibilities Dresser

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| P. S. V.          | DRESSER              | BM-08639                  | N/A                | SP17A7                                  | 1972       | Repaired                         | Yes                           |
| P. S. V.          | DRESSER              | BM-08642                  | N/A                | SP17A8                                  | 1972       | Repaired                         | Yes                           |

7. Description of Work Safety Valves listed above were removed, modified by Dresser, and reinstalled. See attached NVR-1 forms by Dresser for appropriate testing and set pressures. Removed instrumentation measurement plates and associated piping (TM-80.0012)  
Removed (2) 3/4" Dresser Globe valves. S/N H188ABE Year Built 1982  
S/N H050ABE Year Built 1982 (X) Continued

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐
- Pressure 886.9 psi Test Temp. 582.1 °F
- Pressure Relief Valve: Service N/A Size N/A
- Opening Pressure N/A Blowdown (if applicable) N/A
- Set Pressure and Blowdown Adjustments made at N/A (location) N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in.  
 (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered.  
 the number of sheets is recorded at the top of this form.



Replaced (2) two damaged 1 3/8" nuts on inlet flange to SP-17A7

9. Remarks: Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
repair or replacement  
 conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NRCertificate of Authorization No. 20 Expiration Date 7-17-92

Signed Robert E. Donnell PL MANAGER Date 3 JAN 19 91  
 Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
 State or Province of Ohio and employed by H. S. B. I. & I. Company

of Hartford, CT. have inspected the  
 components described in this Owner's Report during the period 1-25-90 to 1-3-91, and state that to  
 the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
 examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
 this inspection.

Robert E. Donnell 1-3-91 Commissions NA 22: 4102-AL (P-V)  
 Inspector's Signature Date National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
 relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
 in the publications NB-65 and NB-012, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_ 19 \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_ 19 \_\_\_\_\_

Date \_\_\_\_\_ 19 \_\_\_\_ Signed \_\_\_\_\_  
 Repair Organization Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
 certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by  
 \_\_\_\_\_ of \_\_\_\_\_ have

inspected the repair, modification or replacement described in this report on \_\_\_\_\_ 19 \_\_\_\_ and  
 state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
 accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty,  
 expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
 Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
 arising from or connected with this inspection.

Commissions \_\_\_\_\_



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date January 2, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 North SR. 2, Oak Harbor, OH 43449 MWO 1-88-1952-07  
Name Address Repair Organisation P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 North SR. 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date
4. Identification of Systems Main Steam
5. (a) Applicable Construction Code III 19 68 Edition W-68 Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77 S78  
 (c) Design Responsibilities Dresser
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| P. S. V.          | DRESSER              | BM-08641                  | N/A                | SP 17B7                                 | 1972       | Repaired                | Yes                           |
| P. S. V.          | DRESSER              | BM-08644                  | N/A                | SP 17B8                                 | 1972       | Repaired                | Yes                           |

7. Description of Work Safety Valves listed above were removed, modified by Dresser, and  
reinstalled. See attached NVR-1 Forms by Dresser for appropriate Testing and set pressures.  
Removed instrumentation measurement plates and associated piping. (T-89-0012) Removed  
(2) 3/4" Dresser Globe valves. S/N H201ABE Year Built 1982  
S/N H018ABG Year Built 1982 ( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure (X) Other ( )  
 Pressure 886.9 psi Test Temp. 582.1 °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using (location) N/A  
 (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in.  
 (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and  
 the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7-17-92

Signed Robert S. Donnell QC MANAGER Date 3 Jan 1991  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H. S. B. I. & I. Company  
of Hartford, CT. have inspected the

components described in this Owner's Report during the period 1/25/90 to 1-3-91, and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Inspector's Signature [Signature] Date 1-3-91 Commissions NB-1P01 Ohio Code (ENR)  
National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-012, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_ 19 \_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_ 19 \_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organization Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and  
certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_  
of \_\_\_\_\_  
inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed  
in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications  
NB-65 and NB-012, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions \_\_\_\_\_



Industrial Valve

DRESSER

FORM HVR-1 REPORT OF REPAIR ☒ MODIFICATION ☒ **COPY** ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,  
Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)

- Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA
- Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
(Address) 300 Madison Avenue, Toledo, OH 43652
- Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
SSC No. State, Route 2, Oak Harbor, OH 43449
- Identification of repaired pressure relief device: Safety Valve
  - Name of manufacturer: See 1, Above
  - Identifying nos. 6" 377706 (type) BN-08641 (Mfr's. serial no.) N/A (Nat'l Bd. no.) Steam (service) 6 (size) 1972 (year built)
- Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1978 (code case) N/A
- Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1958 (code case) N/A Article B
- Design responsibilities: See 1, Above
- Opening pressure: 1050 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at using (test media) Steam  
(location) Wyle Laboratories, Huntsville, Alabama
- Description of work: (include name and identifying no. of replacement parts) modified Spindle and compression screw  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) P10-32 Socket Head Cap Screws P/N 2331290 (3) #10 Lock Washers P/N 2010206 (3) Retaining Washer P/N 4362701  
Parts Replaced: (2) Cotter Pins P/N 2220219, (3) Disc Holder P/N 1839102H

10. Remarks: Blowdown - Reset Pressure 1000-1029 PSIG @ 10%

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 106 to use the "VR" stamp expires 3-30 19 93  
Certificate of Authorization no. 49 to use the "NP" stamp expires 3-30 19 93

Date June 14, 1990 Signed Same as 1 above (repair organization)

Robert P. Thomas  
(Authorized representative)

DA Eng  
(Title)

### CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of PA and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5 19 90. State that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection.

Date 6-5 19 90 P. C. Thomas  
(Authorized Inspector)

Commission NR-9860 (B, N, I) PA 3175 (Title)  
(Nat'l Bd. No. (including endorsements) State or province & no.)



FORM MVR-1 REPORT OF REPAIR ☒ MODIFICATION ☒ OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,

- Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)
- Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
(Address) 300 Madison Avenue, Toledo, OH 43662
- Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
9501 No. State, Route 2, Oak Harbor, OH 43449
- a. Identification of repaired pressure relief device: Safety Valve  
b. Name of manufacturer: See 3, Above  
c. Identifying nos. 8" 3707RA BN-08544 N/A Steel 6 1972  
(type) (Mfr's. serial no.) (Nat'l Bd. no.) (service) (size) (year built)
- Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
(addenda) 51978 (code case) N/A
- Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1958  
(addenda) W1908 (code case) N/A Article 9
- Design responsibilities: See 3, Above
- Opening pressure: 1102.5 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at using (test media) Steam  
(location/site Laboratories, Huntsville, Alabama)
- Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression screw.  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2311280 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4351201  
Parts Replaced: (1) Disc Collar P/N: 4350101 - 05421, HT # 6-9143, (1) Cotter Pin P/N 2220219, (1) Disc Holder  
P/N 1836202H
- Remarks: Blowdown - Reset Pressure 1000-1080 PSIG @ 10%

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30 19 83.  
Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 83.

Date 5-31, 1980. Signed Same as 3 above (repair organization) (authorized representative) Principal O. A. Engineer (title)

### CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certifying date of competency issued by the state or province of CHID and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5 19 80 at state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employee shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-5 1980, PAUL B. I. PAUL B. I. PAUL B. I.  
(Authorized Inspector) (National Bd. No. (including endorsements) state or province & no.)



FORM NIS-2/NR 1/11v  
 As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 29, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-88-2084-00  
 Address Repair Organisation P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7/17/92
4. Identification of System Main Steam
5. (a) Applicable Construction Code ASME III 19 71 Edition W/71 Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilised for Repairs or Replacements 19 86  
 (c) Design Responsibilities ITT Hammel-Dahl/Concflow
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| MS-394            | ITT Hammel-Dahl      | 72/6089/029               | N/A                | N/A                                     | 1975       | Replaced                | Yes                           |
| MS-394            | ITT Hammel-Dahl      | E-A687-1-1                | N/A                | N/A                                     | 1989       | Repl.                   | Yes                           |

7. Description of Work Cut out and replaced old valve S/N # 72/6089/029 with new valve E-A687-1-1.
- ( ) Continued

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
- Pressure 1320 psi Test Temp. 65.4 °F
- Pressure Relief Valve: Service N/A Size N/A
- Opening Pressure N/A Blowdown (if applicable) N/A
- Set Pressure and Blowdown Adjustments made at N/A (location) N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. REMARKS:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement conform to the rules of the ASME Code, Section XI, repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

signed RE Rannell/RX Owner or Owner's Designee, Title

Quality Control Manager

Date Oct 30 19 91

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 3/27/90 to 10/30/91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Richard N. Acord Inspector's Signature

11/3/90 Date

Commissions

NB-7557-N.I.

National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-614, current editions.

NB-102

Certificate of Authorization No. 316

to use the "VR" stamp expires Dec. 13 19 92

Certificate of Authorization No. 20

to use the "NR" stamp expires July 17 19 92

Date        19        Signed Toledo Edison Repair Organization

Authorized Representative

Quality Control Mgr. Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the repair, modification or replacement described in this report on        19        and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date December 19, 1990  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis Besse Nuclear Power Station Unit #1  
5501 North SR. 2, Oak Harbor, OH 43449  
Name Address
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 North SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7-17-92
4. Identification of System Main Steam
5. (a) Applicable Construction Code III 19 68 Edition W 68 Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 77 S78  
 (c) Design Responsibilities Dresser
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACED | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------|-------------------------------|
| P. S. V.          | DRESSER              | BM-08628                  | N/A                | SP17A1                                  | 1972       | Repaired             | Yes                           |
| P. S. V.          | DRESSER              | BM-08633                  | N/A                | SP17A2                                  | 1972       | Repaired             | Yes                           |
| P. S. V.          | DRESSER              | BM-08629                  | N/A                | SP17A4                                  | 1972       | Repaired             | Yes                           |
| P. S. V.          | DRESSER              | BM-08636                  | N/A                | SP17A5                                  | 1972       | Repaired             | Yes                           |
| P. S. V.          | DRESSER              | BM-08638                  | N/A                | SP17A6                                  | 1972       | Repaired             | Yes                           |

7. Description of Work Safety Valves listed above were removed, modified by Dresser, and reinstalled. See attached NVR-1 forms by Dresser for appropriate testing and set pressures.

( ) Continued

8. Tests Conducted:
 

|  |                                     |                                |               |
|--|-------------------------------------|--------------------------------|---------------|
| Hydrostatic [ ]  | Pneumatic [ ]                       | Nominal Operating Pressure (X) | Other [ ]     |
| Pressure <u>886.9</u> psi                                | Test Temp. <u>582.1</u> °F          |                                |               |
| Pressure Relief Valve: Service <u>N/A</u>                | Size <u>N/A</u>                     |                                |               |
| Opening Pressure <u>N/A</u>                              | Blowdown (if applicable) <u>N/A</u> |                                |               |
| Set Pressure and Blowdown Adjustments made at <u>N/A</u> | (location) <u>N/A</u>               |                                |               |
| <u>N/A</u>   | using <u>N/A</u>                    |                                | (Test Medium) |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM HVR-1 REPORT OF REPAIR ☒ COPY ☒ MODIFICATION ☒ OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

- Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,  
Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)
- Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA
  - Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
(Address) 300 Madison Avenue, Toledo, OH 43652
  - Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 No. State, Route 2, Oak Harbor, OH 43449
  - a. Identification of repaired pressure relief device: Safety Valve  
b. Name of manufacturer: See 1, Above  
c. Identifying nos. 6" 3707RA (type) BM-08528 (Mfr's. serial no.) N/A (Nat'l Bd. no.) Steam (service) 6 (size) 1972 (year built)
  - Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
(addenda) 51978 (code case) N/A
  - Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1958  
(addenda) W1958 (code case) N/A Article 8
  - Design responsibilities: See 1, Above
  - Opening pressure: 1102.5 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at  
(location) Wyle Laboratories, Huntsville, Alabama using (test media) Steam
  - Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression screw  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2311280 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4351201  
Parts Replaced: (1) Disc Collar P/N 4350101 - OS421, HT # 8-9143, (1) Cotter Pin P/N 2220219, (1) Disc Holder  
P/N 1836202H
  - Remarks: \*Blowdown - Reset Pressure 1000-1080 PSIG @ 10%

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 1081 to use the "VR" stamp expires 3-30 19 93  
Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 93

Date 5-31 1990 Signed Same as 1 above (repair organization) [Signature] (Authorized representative) Principal O. A. Engineer (Title)

### CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 5-5 19 90 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employee shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with the inspection.

Date 6-5 1990 [Signature] (Authorized Inspector)

Commission AP-9800 (B.N.I.) PAUC 375 (Nat'l Bd No. (including endorsements) state or province & no.)



Industrial Valves

DRESSER

70089

FORM NVR-1 REPORT OF REPAIR ☒ MODIFICATION ☒ OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,

- Work performed by Intersection U. S. Hwy. 167 & LA 3223 North, Alexandria, LA (Name of Repair Organization)
- Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
(Address) 300 Madison Avenue, Toledo, OH 43652
- Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
SSOI No. State, Route 2, Oak Harbor, OH 43449
- a. Identification of repaired pressure relief device: Safety Valve  
b. Name of manufacturer: See 1, Above  
c. Identifying nos. 8" 3707RA BH-08533 N/A Steen 6 1972  
(type) (mfr's. serial no.) (Nat'l Bd. no.) (service) (size) (year built)
- Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
(addenda) S1970 (code case) N/A
- Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1968  
(addenda) W1958 (code case) N/A Article 9
- Design responsibilities: See 1, Above
- Opening pressure: 1102.5 PSIG Blowdown (if applicable): \*See Remarks Set pressure and blowdown adjustments made at  
(location) Wyle Laboratories, Huntsville, Alabama using (test media) Steam
- Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression screw  
Parts Added: (1) Teflon Ring Inserts P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2311260 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4351201  
Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, HT # 8-8143, (1) Cotter Pin P/N 2220219, (1) Disc Holder  
P/N 1836202N (1) Guide P/N 4001201
- Remarks: \*Blowdown - Reset Pressure 1000-1080 PSIG @ 10%

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30 19 93  
Certificate of Authorization no. 40 to use the "NR" stamp expires 3-30 19 93

Date 5-21 19 90 Signed Same as 1 above (repair organization) [Signature] (authorized representative) Principal O. A. Engineer (Title)

### CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5 19 90 at State of Ohio to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with the inspection.

Date 6-5 19 90 [Signature] (Authorized Inspector) Commissions NB-2800 (B.N.I.) PAID 3.75 OHIO COMP.  
(Nat'l Bd. No. (including endorsements) state or province & no.)



Industrial Valve

EXPRESS

FORM IVR-1 REPORT OF REPAIR ☒ COPY ☒ MODIFICATION ☒ OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

- Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,  
Intersection U. S. Hwy. 157 & LA 3225 North, Alexandria, LA (Name of Repair Organization)
- Work performed by Toledo Edison Company, Davis-Besse Nuclear Station
  - Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
(Address) 300 Madison Avenue, Toledo, OH 43652
  - Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 No. State, Route 2, Oak Harbor, OH 43449
  - a. Identification of repaired pressure relief device: Safety Valve  
b. Name of manufacturer: See 1, Above  
c. Identifying nos. 6" 3707RA (type) IB-08629 (aff's. serial no.) N/A (Nat'l Bd. no.) Steen (service) 6 (size) 1977 (year built)
  - Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
(addenda) 5197B (code case) N/A
  - Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1958  
(addenda) W1958 (code case) N/A Article 9
  - Design responsibilities: See 1, Above
  - Opening pressure: 1102.5 PSIG Blowdown (if applicable): "See Remarks" Set pressure and blowdown adjustments made at using (test media) Steam  
(location) Wyle Laboratories, Huntsville, Alabama
  - Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression screw  
Parts Added: (1) Teflon Ring Insert P/N 4351201 (3) #10-32 Socket Head Cap Screws P/N 2311280 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4351201  
Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, MT # 8-9143, (1) Cotter Pin P/N 2220219, (1) Disc Holder  
P/N 1836202H

10. Remarks: "Blowdown - Reset Pressure 1000-1080 PSIG @ 10%

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conformed to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30 19 90  
Certificate of Authorization no. 89 to use the "NR" stamp expires 3-31 19 93

Date 5-31 19 90 Signed Same as 1 above (repair organization) [Signature] (authorized representative) Principal O. A. Engineer (title)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5 19 90 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-5 19 90 [Signature] (authorized inspector) Commissions NB-9910 (R.N.I.) PAWC 3175 OHIO (Copied) (Nat'l Bd. No. (including endorsements) state or province & no.)



Industrial Valves

DRESSER

FORM HVR-1 REPORT OF REPAIR

MODIFICATION

OR REPLACEMENT

OF NUCLEAR PRESSURE RELIEF DEVICE

- Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,  
 1. Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)  
 2. Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
 (Address) 300 Madison Avenue, Toledo, OH 43652  
 3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 No. State, Route 2, Oak Harbor, OH 43449  
 4. a. Identification of repaired pressure relief device: Safety Valve  
 b. Name of manufacturer: See 1, Above  
 c. Identifying nos. 6" 3707RA BM-08636 N/A Steam 6 1972  
 (type) (aff's. serial no.) (Mat'l Id. no.) (service) (size) (year bui)  
 5. Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
 (addenda) S1978 (code case) N/A  
 6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1968  
 (addenda) W1998 (code case) N/A Article 9  
 7. Design responsibilities: See 1, Above  
 8. Opening pressure: 1102.5 PSIG Blowdown (if applicable): "See Remarks" Set pressure and blowdown adjustments made at  
 (location) Wyle Laboratories, Huntsville, Alabama using (test media) Steam  
 9. Description of work: (Include name and identifying no. of replacement parts) Modified Spindle and compression screw.  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2251260 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4351201  
Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, HT # 8-9143, (1) Cotter Pin P/N 2220219, (1) Disc Holder  
P/N 1836202H  
 10. Remarks: "Blowdown - Reset Pressure 1000-1080 PSIG @ 10%

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-85 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30 19 93.  
 Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 93.

Date 5-31 19 90. Signed Same as 1 above  
 (repair organization)

[Signature] Principal O. A. Engineer  
 (title)

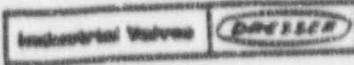
## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5 19 90.  
 State that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-85 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection.

Date 6-5 19 90. [Signature]  
 (Authorized Inspector)

Commissions NB-9900 (O.N.I.) OHIO Comm. Ph.N.C. 3175  
 (Nat'l Bd No. (including endorsements) state or province & no)





00100

FORM NVR-1 REPORT OF REPAIR ☒ MODIFICATION ☒ OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

- Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,  
Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)
1. Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA
  2. Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
(Address) 300 Madison Avenue, Toledo, OH 43662
  3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 No. State, Route 2, Oak Harbor, OH 43449
  4. a. Identification of repaired pressure relief device: Safety Valve  
b. Name of manufacturer: See 1, Above  
c. Identifying nos. 6" 377X34 (type) BM-02638 (affr's. serial no.) N/A (Nat'l Bd. no.) Steam (service) 6 (size) 1972 (year built)
  5. Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1958  
(addendum) 51978 (code case) N/A
  6. Applicable edition of ASME Code Section III to which repairs, modifications or replacements were made: (edition) 1958  
(addendum) W1958 (code case) N/A Article 8
  7. Design responsibilities: See 1, Above
  8. Opening pressure: 1080 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at using (test media) Steam  
(location) Wyle Laboratories, Huntsville, Alabama
  9. Description of work: (Include name and identifying no. of replacement parts) Modified Spindle and compression screw  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2311260 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4362701  
Parts Replaced: (2) Cotter Pins P/N 2220218, (1) Disc Holder P/N 3823102N
  10. Remarks: Blowdown - Reset Pressure 1000-1029 PSIG @ 10%

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 106 to use the "VR" stamp expires 3-30 19 83  
Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 83

Date June 4, 1990 Signed Same as 1 above Redner R. Thomas O A Enos  
(repair organization) (authorized representative) (Title)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5 19 90.  
State that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection.

Date 6-5 19 90 Mr. Enos Commissions NB-9800 (B.N.I.) PA#C. 3175 OHIO COMM  
(Authorized Inspector) (Nat'l Bd No. (including endorsements) state or province & no.)



**FORM NR-1 REPORT OF REPAIR - MODIFICATION - OR INSTALLATION OF REPLACEMENT(S) &  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS**

1. Work performed by Toledo Edison Company MWO# 1-89-1222-02 & 06  
5501 N. SR 2, Oak Harbor, OH 43449  
(repair organization's P.O. no., etc.)

2. Owner: Toledo Edison Company  
300 Madison Ave., Toledo OH 43652  
(name)  
(address)

3. Name, address and identification of nuclear power plant: Davis-Besse Nuclear Power Station  
5501 N. SR 2, Oak Harbor, OH 43449

4. Identification of system: Main Steam

5. a. Identification of component repaired, modified or replaced: Safety Valves ~~RI~~ replaced VALVES #1 & 2  
 b. Name of manufacturer: Dresser Industries  
 c. Identifying nos. BMO8632 & BMO8634 N/A N/A SP17A36SP17A7 1972  
(mfr's serial no.) (Nat'l. Bd. no.) (serial char. no.) (other) (year built)

6. Applicable section(s): XI of ASME Code, 19 77 edition S/78 addenda N/A Code Case N/A

7. Design responsibilities: Dresser Industries

8. Tests conducted: hydrostatic ☒ pneumatic ☐ design pressure ☐ pressure N/A psi. (see CP-10-12-91)

9. Description of work: Both safety valves were removed by Toledo Edison, repaired by Dresser Industries (See attached NVR-1 & Wyle Test Certifications) and reinstalled by Toledo Edison.  
(use of additional sheets of description is acceptable if properly identified)

10. Remarks:  
(10) Ten Flange studs replaced on SP-17A3 (SN-BMO8632)  
(1) One Flange Stud replaced on SP-17A9 (SN-BMO8634)  
Stud Materials are in accordance with ASME III, NC '83ED S'84 AD.;  
ASME III

**CERTIFICATE OF COMPLIANCE**

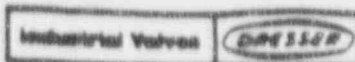
We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement conforms to the applicable section of the ASME Code.  
(repair, modification or replacement)  
 Certificate of Authorization no. 20 to use the "NR" stamp expires July 17 1992  
 Signed Toledo Edison Company REDonnell Q.C. MANAGER Oct 15 1991  
(repair organization) (authorized representative) (title) (date)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by HSB, F&ICO of Westford, CT. have inspected the repair, modification or replacement described in this report on 12-21 1991 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-85 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-21 1991 Signed [Signature] NB 9800(BNT) OHIO COM  
(Authorized Inspector) (National Bd. no. including endorsements; state)



FORM NVR-1 REPORT OF REPAIR ☒, MODIFICATION ☒, OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

- Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,  
1. Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)  
2. Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
(Address) 300 Madison Avenue, Toledo, OH 43682  
3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 No. State, Route 2, Oak Harbor, OH 43449  
4. a. Identification of repaired pressure relief device: Safety Valve  
b. Name of manufacturer: See 1, Above  
c. Identifying nos. 6" 3702RA BM-08634 N/A Steel 6 1972  
(type) (wfr's. serial no.) (Net'l Bd. no) (service) (size) (year built)  
5. Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
(addenda) 5197B (code case) N/A  
6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1968  
(addenda) 4196C (code case) N/A Article 9  
7. Design limitations: See 1, Above  
8. Opening pressure: 1102.5 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at  
(location) Wyle Laboratories, Huntsville, Alabama using (test media) Steel  
9. Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression screw  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2311260 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4351201  
Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, HT # 8-9143, (1) Cotter Pin P/N 2220219, (1) Disc Holder  
P/N 1836202N  
10. Remarks: \*Blowdown - Reset Pressure 1000-1080 PSIG @ 1.25

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30, 19 83.  
Certificate of Authorization no. 89 to use the "NR" stamp expires 3-30, 19 83.

Date 5-31, 1990. Signed Same as 1 above Principal O. A. Engineer  
(repair organization) (authorized representative) (title)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5, 1990 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-5, 1990, Paul L. Loefer Commission NB-9800 (B.N.I.) PAWC 3175 OH  
(Authorized Inspector) (Net'l Bd No. (including endorsements) state or province & no.)



FORM NVR-1 REPORT OF REPAIR ☒, MODIFICATION ☒, OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,

1. Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)
2. Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
(Address) 300 Madison Avenue, Toledo, OH 43652
3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 No. State, Route 2, Oak Harbor, OH 43449
4. a. Identification of repaired pressure relief device: Safety Valve  
b. Name of manufacturer: See 1, Above  
c. Identifying nos. 6" 3707RA BM-09532 N/A Steel 8 1972  
(type) (mfr's. serial no.) (Net'l Bd. no) (service) (size) (year built)
5. Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
(addenda) 51978 (code case) N/A
6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1968  
(addenda) W1968 (code case) N/A Article 9
7. Design responsibilities: See 1, Above
8. Opening pressure: 1102.5 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at  
(location) Wyle Laboratories, Huntsville, Alabama using (test media) Steam
9. Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression screw.  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2311250 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4351201  
Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, HT # 8-0143, (1) Cotter Pin P/N 2220219, (1) Disc Holder  
P/N 1836202M
10. Remarks: Blowdown - Reset Pressure 1000-1080 PSIG @ 10%

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30 19 93.  
Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 93.  
Date 5-31, 1990. Signed Same as 1 above                      Principal O. A. Engineer  
(repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5, 1990 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-5, 1990,                      Commissions NB-9860 (B.N.I.) PAWC 3175 -                       
(Authorized Inspector) (Net'l Bd No. (including endorsements) state or province & no.)



FORM NR-1 REPORT OF REPAIR ☒ MODIFICATION ☐ OR INSTALLATION OF REPLACEMENT(S) ☒  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Toledo Edison Company NWO# 1-89-1222-10  
(name)  
5501 North State Route 2, Oak Harbor, OH 43449  
(address)

2. Owner Toledo Edison Company  
(name)  
300 Madison Ave., Toledo, OH 43449  
(address)

3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Power Plant Unit #1  
5501 North State Route 2, Oak Harbor, OH 43449

4. Identification of system Main Steam

5. a. Identification of component repaired, modified or replaced Main Steam C Nozzle SP17B4  
b. Name of manufacturer ITT Grinnell  
c. Identifying nos. 01203A TE-1 N/A SP-17B4 1977  
(N.B. no.) (Nat'l Bd. no.) (jurisdictional no.) (other) (year built)

6. Applicable section(s) XI of ASME Code, 19 77 edition 77 addenda S-78 Code Case N/A

7. Design responsibilities Toledo Edison Company

8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure N/A psi. 78

9. Description of work SP-17B4 safety valve was removed for refurbishment, and a blind flange installed. The valve was refurbished, the blind flange removed, and the valve reinstalled. One (1) stud and two (2) nuts were replaced when valve was reinstalled.  
(use of additional sheets or sketches is acceptable - properly identified)

10. Remarks: \*\* See attached NVR-1 from Dresser and test report 41061-17 from Ulyie Labs.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all design, material and workmanship on this Repair/Replacement conforms to the applicable section of the ASME Code (repair, modification or replacement)

Certificate of Authorization no. 2C to the "NR" stamp expires July 17 19 92

Signed Toledo Edison Company John C. Donohue Quality Control Manager 2 July 19 91  
(repair organization) (authorized representative) (title) (date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of Ohio and employed by H.S.B.I. & I. of Hartford, CT have inspected the repair, modification or replacement described in this report on 11-4 19 91 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-4 19 91 Signed John C. Donohue Commissions Ohio Comm. NB-9800 (B.N.I.)  
(authorized inspector) (Nat'l Bd. no. including endorsements, state or province and date)



Industrial Valves

DRESSER

FORM NVR-1 REPORT OF REPAIR ☒, MODIFICATION ☒ <sup>COPY</sup> OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

- Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations.
- Work performed by Intersection V. S. Hwy. 167 & LA 2225 North, Alexandria, LA (Name of Repair Organization)
  - Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
(Address) 330 Madison Avenue, Toledo, OH 43662
  - Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 No. State, Route 2, Oak Harbor, OH 43449
  - a. Identification of repaired pressure relief device: Safety Valve  
b. Name of manufacturer: See 1, Above  
c. Identifying nos. 6" 37076A 84-08635 N/A Steel 6 1972  
(type) (off's. serial no.) (Nat'l Bd. no.) (service) (size) (year built)
  - Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
(addenda) S1976 (code case) N/A
  - Applicable edition of ASME Code Section III to which repairs, modifications or replacements were made: (edition) 1958  
(addenda) V1958 (code case) N/A Article 8
  - Design responsibilities: See 1, Above
  - Opening pressure: 1102.5 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at  
(location) Wyle Laboratories, Huntsville, Alabama using (test media) Steam
  - Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression screw  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2311280 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4351201  
Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, HT # B-9143, (1) Cotter Pin P/N 2220219, (1) Disc Holder  
P/N 1836202N
  - Remarks: Blowdown - Reset Pressure 1100 PSIG @ 10%

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-63 and NB-102, current editions.

Certificate of Authorization no. 106 to use the "VR" stamp expires 3-30 19 83  
Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 83

Date 5-31 1980 Signed See 1, Above Principal O. A. Engineer  
(repair organization) (author and representative) (P.O.E.)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5 19 80 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-63 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-5 1980 W.C. Thompson Commissions NR 9910 (A.N.I.) PAWL 3175 OHIO COMM.  
(Authorized Inspector) (Nat'l Bd. no. (including endorsements) state or province & no.)



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date December 19, 1990  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 North SR. 2, Oak Harbor, OH 43449 MWO 1-89-1222-07, 08, 11, 12, 13  
Name Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 North SR. 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7-17-92
4. Identification of System Main Steam
5. (a) Applicable Construction Code III 19 68 Edition W-68 Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77 S78  
 (c) Design Responsibility Dresser
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| P. S. V.          | DRIFSSER             | BM-08630                  | N/A                | SP 17B1                                 | 1972       | Repaired                | Yes                           |
| P. S. V.          | DRESSER              | BM-08631                  | N/A                | SP 17B2                                 | 1972       | Repaired                | Yes                           |
| P. S. V.          | DRESSER              | BM-08637                  | N/A                | SP 17B5                                 | 1972       | Repaired                | Yes                           |
| P. S. V.          | DRESSER              | BM-08640                  | N/A                | SP 17B6                                 | 1972       | Repaired                | Yes                           |
| P. S. V.          | DRESSER              | BM-08645                  | N/A                | SP 17B9                                 | 1972       | Repaired                | Yes                           |

7. Description of Work Safety Valves listed above were removed, modified by Dresser, and  
reinstalled. See attached NVR-1 Forms by Dresser for appropriate Testing and set pressures

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [X] Other [ ]  
 Pressure 886.9 psi Test Temp. 582.1 °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A (Test Medium)

NOT: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in.  
 Information in items 1 through 6 on this report is included on each sheet, and (2) each sheet is numbered and the number of sheets is recorded at the top of this form.



## APPENDIX

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7-17-92  
 Signed [Signature] Date 11-18-91  
Chief of Police's Signature, Title

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Ohio and employed by H. S. B. I. & I. Company

components described in this Owner's Report during the period 1/15/90 to 12-20-90 and state that he performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASPE Code, Section 52.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, as to the completeness and corrective measures described in the Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising out of or connected with this inspection.

Inspector's Signature: Walter J. Leguina Date: 11-22-75 Case: 16-61000 NB-7800 AUTO Cont. (NBI)  
National, State, Local, Provincial and International

We certify that the statements made in this report are correct and the repair, modification or replacement of the first relief device described above conform to Section 21 and Section III of the ADPE Code and the National Board rules as set out in the publications NB-49 and NB-612, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "FD" stamp expires \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "SD" stamp expires \_\_\_\_\_

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_  
Special Agent in Charge \_\_\_\_\_

1. the undersigned, holding a valid commission issued by the State of Illinois and a valid certificate of competency issued by the State of Illinois of \_\_\_\_\_ and \_\_\_\_\_

I, the undersigned, hereby certify that to the best of my knowledge and belief, this report, modification, or replacement has been made in accordance with Section XI and Section III of the Arms Trade and the National Arms Rules as defined in the National Arms Rules, current editions. By signing this certificate, neither the inspector nor his employee makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, the inspector nor his employee shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

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FORM NVR-1 REPORT OF REPAIR ☒, MODIFICATION ☒, OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

- Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,  
 1. Work performed by Intersection U. S. Hwy. 16, 7000, Alexandria, LA (Name of Repair Organization)  
 2. Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
 (Address) 300 Madison Avenue, Toledo, OH  
 3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 Mo. State, Route 2, Oak Harbor, OH 43442  
 4. a. Identification of repaired pressure relief device: Safety Valve  
 b. Name of manufacturer: See 1, Above  
 c. Identifying nos. 6" 37078A BM-08630 N/A Steam 8 1972  
 (type) (off's. serial no.) (nat'l id. no.) (service) (size) (year built)  
 5. Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
 (addenda) 51978 (code case) N/A  
 6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1958  
 (addenda) W1958 (code case) N/A Article 9  
 7. Design responsibilities: See 1, Above  
 8. Opening pressure: 1102.5 PSIG Blowdown (if applicable): "See Remarks" Set pressure and blowdown adjustments made at using (test media) Steam  
 (location) Wyle Laboratories, Huntsville, Alabama  
 9. Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression spring.  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2311280 (3) #10 Lock Washers  
P/N 2010226 (1) Retaining Washer P/N 4351201  
Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, HT # 8-9143, (1) Cotter Pin P/N 2220219, (1) Disc Holder  
P/N 1836202H  
 10. Remarks: "Blowdown - Reset Pressure 1000-1080 PSIG @ 10%

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30 19 83  
 Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 83

Date 5-31 1990 Signed Same as 1 above (repair organization) [Signature] (authorized representative) Principal Q. A. Engineer (title)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certify that of competency issued by the state or province of MASS and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5 19 90 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employee shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-5 1990 [Signature] (Authorized Inspector) Commissions NO-9400 (BNI) PAUL 3175 CHIC (CFIM)  
 (Nat'l Bd No. (including endorsements) State or province & no.)



FORM NVR-1 REPORT OF REPAIR ☒ MODIFICATION ☒ OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

- Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,  
Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)
- Owner (Name) Teledyne Edison Company, Davis-Besse Nuclear Station  
(Address) 300 Madison Avenue, Toledo, OH 43652
  - Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 No. State, Route 2, Oak Harbor, OH 43449
  - a. Identification of repaired pressure relief device: Safety Valve  
b. Name of manufacturer: See 1, Above  
c. Identifying nos. 6" 37078A BM-08631 N/A Steam 6 1972  
(type) (mfr's. serial no.) (Nat'l Bd. no.) (service) (size) (year built)
  - Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
(addenda) 51978 (code case) N/A
  - Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1968  
(addenda) W1968 (code case) N/A Article 9
  - Design responsibilities: See 1, Above
  - Opening pressure: 1102.5 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at using (test media) Steam  
(location) Wyle Laboratories, Huntsville, Alabama
  - Description of work: (include name and identifying no. of replacement parts) Modified - Inlet and compression screw  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (2) #10-32 Socket Head Cap Screws P/N 2311240 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4351201  
Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, M1 # 8-9143, (1) Center Pin P/N 2220219, (1) Disc Holder  
P/N 1836202H
10. Remarks: Blowdown - Reset Pressure 1000-1080 PSIG @ 10%

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30 19 83  
Certificate of Authorization no. 89 to use the "NR" stamp expires 3-30 19 83

Date 5-31 19 90 Signed Same as 1 above [Signature] Principal O. A. Engineer  
(repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 5-5 19 90 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-5 19 90 [Signature] Commissions NB-9206 (B.N.I.) MAX 3.75 OHIO CERT.  
(authorized inspector) (Nat'l Bd. no. (including endorsements) state or province & no.)



Industrial Valves

DIN 1515

10000

FORM NVR-1 REPORT OF REPAIR ☒ COPY ☒ OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

- Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,  
 1. Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)  
 2. Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
 (Address) 300 Madison Avenue, Toledo, OH 43602  
 3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 No. State, Route 2, Oak Harbor, OH 43449  
 4. a. Identification of repaired pressure relief device: Safety Valve  
 b. Name of manufacturer: See 1, Above  
 c. Identifying nos. 6" 3707RA BH-08537 N/A Stage 6 1977  
 (type) (eff's. serial no.) (Net'l Bd. no.) (service) (size) (year built)  
 5. Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
 (addenda) 5197B (code case) N/A  
 6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1965  
 (addenda) W1905 (code case) N/A Article 9  
 7. Design responsibilities: See 1, Above  
 8. Opening pressure: 1102.5 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at  
(location) Myle Laboratories, Hartsville, Alabama using (test media) Steam  
 9. Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression screw  
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2311200 (3) #10 Lock Washers  
P/N 2010206 (1) Retaining Washer P/N 4351301  
Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, HT # B-9143, (1) Cotter Pin P/N 2220219, (1) Disc Holder  
P/N 1236202H  
 10. Remarks: Blowdown - Reset Pressure 1000-1080 PSIG @ 10%

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "WR" stamp expires 3-30 19 83.  
 Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 83.

Date 5-31, 19 90. Signed Same as 1 above (Authorized Representative) Principal O. A. Engineer  
 (repair organization) (title)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by the Hartford State Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5, 19 90 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-5, 19 90 W. L. Ferguson Commissions A/R-9800 (RNI) OHIO Comm. #WAL-3175  
 (Authorized Inspector) (Net'l Bd No. (including endorsements) state or province & no.)



Industrial Valves

DRESSER

U-30

FORM NVR-1 REPORT OF REPAIR ☒ MODIFICATION ☒ OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

Dresser Industries, Inc., Dresser Valve &amp; Controls Div., Industrial Valve Operations,

- Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)
- Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station  
(Address) 300 Madison Avenue, Toledo, OH 43662
- Name, address and identification of nuclear power plant Davis-Besse Nuclear Station  
5501 No. State, Route 2, Oak Harbor, OH 43449
- a. Identification of repaired pressure relief device: Safety Valve  
b. Name of manufacturer: See 1, Above  
c. Identifying no. 6" 3777QA (type) BM-08640 (Mfr's. serial no.) N/A (Nat'l Id. no.) Steam (service) 8 (size) 1972 (year built)
- Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977  
(addenda) 5197B (code case) N/A
- Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1968  
(addenda) W190B (code case) N/A Article 9
- Design responsibilities: See 1, Above
- Opening pressure: 1050 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at using (test media) Steam  
(location) Wyle Laboratories, Huntsville, Alabama
- Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression screw.  
Parts Added: (1) Teflon Ring Inserts P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2313280 (3) #10 Lock Washers P/N 2010206 (1) Retaining Washer P/N 4362701  
Parts Replaced: (2) Cotter Pins P/N 2220219, (1) Disc Holder P/N 1839102H

10. Remarks: Blowdown - Reset Pressure 1000-1029 PSIG @ 10%

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "NR" stamp expires 3-30 19 83  
Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 83

Date June 4, 1982 Signed Same as 1 above  
(repair organization)

Radney R. Thomas  
(authorized representative)

C. A. Enos  
(attest)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 6-5 19 82 at State of Ohio to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection.

Date 6-5 19 82 M. L. Enos  
(authorized inspector)

Commissions NB-900 (N.I.) APR 3, 75 OHIO  
(Nat'l Id. No. (including endorsements) State or province & no.)



Industrial Valves

DRESSER

FORM NVR-1 REPORT OF REPAIR ☒, MODIFICATION ☒, OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

Dresser Industries, Inc., Dresser Valve &amp; Controls Div., Industrial Valve Operations,

1. Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)2. Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station(Address) 300 Madison Avenue, Toledo, OH 436623. Name, address and identification of nuclear power plant Davis-Besse Nuclear Station5501 No. State, Route 2, Oak Harbor, OH 434494. a. Identification of repaired pressure relief device: Safety Valveb. Name of manufacturer: See 1, Abovec. Identifying nos. 6" 37079A BH-08645 N/A Steel 6 1972

(type)

(mfr's. serial no.) (Nat'l Bd. no.) (service) (size) (year built)

5. Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1977(addenda) 51978 (code case) N/A6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1966(addenda) W1988 (code case) N/A Article 97. Design responsibilities: See 1, Above8. Opening pressure: 1100.8 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at using (test media) Steam(location) Wyle Laboratories, Murrellville, Alabama9. Description of work: (include name and identifying no. of replacement parts) Modified Spindle and compression screw.

Parts Added: (1) Teflon Ring Insert P/N 4351301 (2) #10-32 Socket Head Cap Screws P/N 2311280 (3) #10 Lock Washers

P/N 2010206 (1) Retaining Washer P/N 4351201

Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, HT # 8-4143, (1) Cutter Pin P/N 2220219, (1) Disc Holder

P/N 1636202H

10. Remarks: "Blowdown - Repeat Pressure 1000-1080 PSIG @ 10%

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 106 to use the "VR" stamp expires 3-30 19 83Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 83Date 5-31 19 70 Signed Same as 1 above Principal O. A. Engineer

(repair organization)

(NRC/NB representative)

(title)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employee shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-5 19 70 Authorized Inspector Commissions NR-4800 (R.N.I.) PAUC-3175 CHIC CAMP

(Nat'l Bd. no. (including endorsements) State or province &amp; no.)



FORM NR-1 REPORT OF REPAIR - MODIFICATION - OR INSTALLATION OF REPLACEMENT(S) ☐ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Toledo Edison Company (Name) MT00 1-89-1671 00 (Repair, Modification or Replacement)  
5501 North State Route 2, Oak Harbor, OH 43449 (Address)  
 2. Owner Toledo Edison Company (Name)  
300 Madison Ave., Toledo, OH 43449 (Address)  
 3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Power Plant Unit #1  
5501 North State Route 2, Oak Harbor, OH 43449  
 4. Identification of system RCS Pressurizer Safety Valve  
 5. a. Identification of component repaired, modified or replaced RC13B  
 b. Name of manufacturer Crosby Valve  
 c. Identifying nos. 59303-00-0001 (Part & Serial No.) N/A (Part & No.) N/A (Unit-Substation No.) RC13B (Other) 1976 (Year Built)  
 6. Applicable section(s) XI of ASME Code, 19 77 edition 77 addenda S-78 Code Case N/A  
 7. Design responsibility Toledo Edison Company  
 8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure n psi  
 9. Description of work Valve SN-59303-00-0001 was removed and replaced with valve  
SN-56264-00-0005. A VI-2 was performed at system pressure and temperature.  
 10. Remarks:

a. Valve was refurbished by Crane Aloyco Inc., and Ullie Test Lab performed the test certification.

Attached:

1VR 1 Crane Aloyco  
49134-2 Certification Test Report

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement conforms to the applicable section of the ASME Code (Repair, Modification or Replacement)  
 Certificate of Authorization no. 20 to use the "NR" stamp expires July 17 19 92  
 Signed Toledo Edison Company Robert E. Dorn Quality Control Manager 2/14 19 91  
 (Repair Organization) (Authorized Representative) (Name) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of Ohio and employed by H.S.B.I. & I. of Hartford, CT have inspected the repair, modification or replacement described in this report on 11-4 19 91 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-4 19 91 Signed Mark C. Fry Commissions Ohio COMM. NB-9800 (2/12)  
 (Inspector) (Name) (No. including endorsements, state of license and expiration date)

This form may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Columbus, OH 43229



**WYLE**  
LABORATORIESSCIENTIFIC SERVICES  
& SYSTEMS  
GROUP

Huntsville, Alabama 35807

TWX (810)726-2225, Phone (205)837-4411

**CERTIFICATION  
TEST  
REPORT**Crane Valve  
12 E. Devonwood  
Romeoville, ILL 60441REPORT NO. 40184-2  
CUSTOMER P. O. NO. C13416  
CONTRACT N/A  
NUMBER OF PAGES 8  
DATE January 12, 1990

- 1.0 SPECIMEN: Crosby Pressurizer Safety Valve  
2.0 SET PRESSURE: 2500  $\pm$  25 psig  
3.0 PART NUMBER: HB-86-BP  
4.0 SERIAL NUMBER: N56264-00-0005  
5.0 SUMMARY:

Valve S/N N56264-00-0005 was refurbished by a Crane Valve Service Representative with Wyle assistance. After refurbishment, the valve was tested for set pressure and seat leakage using steam as the test medium. It was then jacked, lapped and tested for seat leakage using gaseous nitrogen as the test medium. The testing was performed in accordance with Wyle Laboratories' Test Procedure 1031, Revision A. The valve ultimately complied with the test requirements. The test results are presented herein.

*BA*  
*Boyle Corp*  
*for T.E.C.*  
*1/15/90*

ddm

STATE OF ALABAMA  
COUNTY OF MADISONss State of AL  
Reg No. 13475  
G. R. Carboneau, PE

BEFORE ME, the undersigned authority, on this day personally appeared \_\_\_\_\_, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

**SEAL**

SUBSCRIBED and sworn to before me this 14th day of Jan 1990

Notary Public in and for the State of Alabama at large.

My Commission expires Jan 7, 93

Wyle shall have no liability for damages of any kind to person or property, including special or consequential damages, resulting from Wyle's providing the services covered by this report.

PREPARED BY *J. K. R. Mattie* 1-9-90APPROVED BY *P. Turrentine* 1-15-90QUALITY ASSURANCE *J. R. Hamilton*  
*G. W. Right*



FORM NVR-1 REPAIR, MODIFICATION OR REPLACEMENT  
OF NUCLEAR PRESSURE RELIEF DEVICE

1. Work performed by CRANE-ALCOYCO, INC. S.O. NR40004-001  
P.O. 0002111390

2. Owner TOLEDO EDISON COMPANY  
300 MADISON AVENUE, TOLEDO, OHIO 43652

3. Name, address and identification of nuclear power plant DAVIS-BESSE NUCLEAR POWER PLANT  
5501 NORTH STATE ROUTE 2, OAK HARBOR, OHIO 43669

4. Identification of repaired pressure relief device PRESSURIZER SAFETY VALVE

5. Name of manufacturer CROSBY VALVE & GAGE COMPANY

6. Identifying nos NR-86-87 NSA264-00-0005 (1) STEAM ADMITT 1972

7. Applicable edition of ASME Code Section II under which repairs, modifications or replacements were made 1977 5-78 5-70

8. Applicable edition of ASME Code Section III to which repairs, modifications or replacements were made 1971 W-72

9. Design responsibilities CROSBY VALVE & GAGE COMPANY

10. Opening pressure 2500 Blowdown (if applicable) N/A Ed Press. to and blowdown using STEAM/NITROGEN  
made at WYLE LABORATORIES, HUNTSVILLE, ALABAMA

11. Description of work (include name and identifying no. of replacement parts) DISASSEMBLE, CLEAN, INSPECT PARTS,  
MACHINE, VERIFY CRITICAL DIMENSIONS AND SPRING IDENTIFICATION, LAP, ASSEMBLE, SET  
AND TEST, SEAL, ATTACH NAMEPLATE, APPLY NR SYMBOL STAMPE, INSPECT, SHIP.

12. Remarks: (1) VALVE NOT STAMPED WITH NATIONAL BOARD NUMBER.  
REPLACEMENT PARTS:  
(1) DISC INSERT PART #NS216-33-0004  
(1) COTTER PIN PART #0041  
(1) BONNET ADAPTOR GASKET P. #071326  
(1) SPRING & WARMER ASSEMBLY P. #NS2180

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section II and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions.

Certificate of Authorization no. 267 to use the VR stamp expires JULY 1 1990  
Certificate of Authorization no. 26 to use the NR stamp expires FEBRUARY 17 1991

Date 1-19 1990 Signed CRANE-ALCOYCO, INC.

CERTIFICATE OF INSPECTION

I, the undersigned, holding a State commission issued by the National Board of Boiler and Pressure Vessel Inspectors, employed by INSURERS' MUTUAL CASUALTY COMPANY of LONG GROVE, ILLINOIS  
have inspected the repair described in this report on 1-19 1990 and state that to the best of my knowledge and belief, this repair has been made or constructed in accordance with Section II and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 1-19 1990 Signed [Signature] Commission no. NR 4131 015-67



**FORM NIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 29, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
Name Address MWO# 1-90-0335-01  
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92
4. Identification of System Station Air
5. (a) Applicable Construction Code ASME III 19 71 Edition W/71 Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86  
 (c) Design Responsibilities ITT Hammel-Dahl/Conoflow
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER     | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|--------------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| Station Air Valve | ITT Hammel-Dahl/Conoflow | 72/6089/024               | N/A                | SA-2010                                 | 1975       | Replaced                | Yes                           |
| Station Air Valve | ITT Hammel-Dahl/Conoflow | 72/6089/024               | N/A                | SA-2010                                 | 1975       | Repl.                   | Yes                           |

7. Description of Work Disassembled and replaced cage, plug, seat, ring, soft seats and gaskets on station air valve SA-2010.

[ ] Continued

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
- Pressure 110 psi Test Temp. N/A °F
- Pressure Relief Valve: Service N/A Size N/A
- Opening Pressure N/A Blowdown (if applicable) N/A
- Set Pressure and Blowdown Adjustments made at N/A  
N/A (location) N/A  
 using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
conforms to the rules of the ASME Code, Section XI.

*Replacement*  
repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20Expiration Date 7/17/92Signed R. E. Connelley, R31

Quality Control Manager

Date Oct 30 19 91

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the

components described in this Owner's Report during the period 7-30-91 to 10-30-91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Raymond V. Acott  
Inspector's Signature

11/20/91  
Date

Commissions

NB-7557-N.I.

National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-43 and ~~NB-43~~ NE-102, current editions.

Certificate of Authorization No. 316to use the "VR" stamp expires Dec. 13 19 92Certificate of Authorization No. 20to use the "NR" stamp expires July 17 19 92Date 19 Signed Toledo Edison

Repair Organization

Authorized Representative

Quality Control Mgr.

Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors  
certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company

of Hartford, CT have inspected the repair, modification or replacement described in this report on 10-30-91  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-43  
and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

COMMISSIONS



FORM NR-1 REPORT OF REPAIR ☐ MODIFICATION ☐ OR INSTALLATION OF REPLACEMENT(S) ☒  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Toledo Edison Company (NAME)  
300 Madison Ave., Toledo, OH 43652 (ADDRESS)  
1-90-1368-03 (REPAIR, MODIFICATION OR REPLACEMENT NO.)  
1-90-1377-00 (JOB NO.)

2. Owner Toledo Edison Company (NAME)  
300 Madison Ave., Toledo, OH 43652 (ADDRESS)

3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Power Plant Unit #1  
5501 North State Route 2, Oak Harbor, OH 43449

4. Identification of system Pressurizer Relief Piping 2 1/2" CCA-8

5. a. Identification of component repaired, modified or replaced Relief/Isolation Valve RC-11  
b. Name of manufacturer Velan  
c. Identifying nos. 866 (MFR'S SERIAL NO.) N/A (NAT'L. ID. NO.) N/A (FUNCTIONAL NO.) RC-11 (IC"4") 1976 (YEAR BUILT)

6. Applicable section(s) XI of ASME Code, 19 77 edition Summer addenda 1978 Code Case N/A

7. Design responsibilities Toledo Edison Company

8. Tests conducted: hydrostatic ☒ pneumatic ☒ design pressure ☒ pressure 2155 psi.

9. Description of work Removed 2 1/2" RC-11 S/N-866 and Replaced with S/N-023, New valve  
(USE OF ADDITIONAL SHEETS OR SKETCHES IS ACCEPTABLE IF PROPERLY IDENTIFIED)  
had new flanges welded on, as well as a 1/2" leak-off cap.

10. Remarks:

|   |  |
|---|--|
| <u>Original Valve</u>   | <u>Replacement for S/N-151</u>                   |
| <u>Velan</u>  | <u>Velan</u>                                     |
| <u>S/N-151</u>  | <u>S/N-866</u>                                   |
| <u>Year Built 1973</u>  | <u>Year Built 1973</u>                           |
| <u>C.C. 1968 I/V Code CL-1</u>  | <u>Applicable Code: ASME III CL-1 1971 w/S 7</u> |
| <u>Changed by FCR 87-0059</u>   | <u>Addenda Code Case 1335-6</u>                  |
| <u>which installed S/N-866</u>  |  |
| <u>Currently Installed Valve</u>  | <u>Toledo Edison Revision to Velan</u>           |
| <u>Velan</u>  | <u>Design Report C-ME-164.04-082</u>             |
| <u>S/N-023</u>  |  |
| <u>Year Built 1983</u>  | <u>Flange Calc C-ME 064.04-083</u>               |
| <u>Applicable Codes</u>   |  |
| <u>ASME III CL-1 1974 Edition w/Addenda through S/76</u>                        |  |
| <u>Reconciled and Acceptable to the original code 1968 Pump/Valve Code CL-1</u> |  |

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement (repair, modification or replacement)  
conforms to the applicable section of the ASME Code  
Certificate of Authorization no. 20 to use the "NR" stamp expired July 17 19 92  
Signed Toledo Edison Company (repair organization) Robert C. Donnell (authorized representative) Quality Control Manager (title) 7-17-92 (date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of Ohio and employed by H.S.B.I. & I. Co.  
of Hartford, CT have inspected the repair, modification or replacement described in this report on 2-20 19 91 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  
Date 2-20 19 91 Signed MC Ferguson (authorized inspector) Commissions Ohio NB 9800 (N.B.I.)  
(NAT'L. BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS)



FORM NED-2/NR-1/1-N-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date November 14, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-90-1603-01, 03, 06  
 Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR/VR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20/316  
 Address Expiration Date 7/17/92 12/31/92

4. Identification of Systems Reactor Coolant System  
 \* ASME III 1968 S/70 1440

5. (a) Applicable Construction Code ASME III 1968 Edition S/70 Addenda 1440 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities Crosby Valve & Gate

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| PRZR Safety       | Crosby               | N-54891-00-0002           | N/A                | RC-13A                                  | 1976       | Repaired for Repl.               | Yes                           |
| * PRZR Safety     | Crosby               | N-54891-00-0001           | N/A                | RC-13A                                  | 1976       | Replaced                         | Yes                           |

7. Description of Work Crosby valve SN-N-54891-00-0002 was rebuilt by Toledo Edison under MWO# 1-90-1603-01. Testing was performed and certified by Wyle Test \*\* Lab. Report # 42031-2 under MWO# 1-90-1603-06. Valve that was rebuilt, S/N N-54891-00-0002 was installed into the N-54891-00-0001 location by MWO 1-90-1603-03. A VT-2 leakage test was conducted at N.O.P. and Temperature. [ ] Continued

8. Tests Conducted: Hydrostatic [x] Pneumatic [ ] Nominal Operating Pressure [ ] Other [x] VT 2  
 Pressure \*\* psi Test Temp. \*\* °F MWO# 1-90-1603-03  
 Pressure Relief Valve: Service Steam Size Model HB-86-BP-4XN1X6  
 Opening Pressure \*\* Blowdown (if applicable): N/A  
 Set Pressure and Blowdown Adjustments made at Wyle Scientific Services  
Huntsville, Alabama using steam (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair/Replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 14 NOV 1991  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I. of Hartford, CT. have inspected the

components described in this Owner's Report during the period 5-12-91 to 11-14-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Mark C. Fegan 11-14-91 Commissions NB-9900 (BNI) OHIO COMM  
Inspector's Signature Date National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 92

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92

Date 14 NOV 19 91 signed Toledo Edison Robert E. Donnell Quality Control Mgr.  
Repair Organization Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the repair, modification or replacement described in this report on 11-14 19 91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-45 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Mark C. Fegan 11-14-91 Commissions NB-9900 (BNI) OHIO COMM



## As Required by the Provisions of the ASME Code Section XI

Date November 14, 1991

Sheet 1 of 1

Unit 01

3. Work Performed by Toledo Edison Company  
Name  
5501 N. SR 2, Oak Harbor, OH 43449  
Address

Type Code Symbol Stamp NR/VR  
 Authorization No. 20/316  
 Expiration Date 7/17/92 12/13/92

|            |              |      |           |
|------------|--------------|------|-----------|
| * ASME III | 1971         | W/72 | II/A      |
| ASME III   | 1974 Edition | S/74 | II/A      |
| Addenda    |              |      | Code Case |

|                                       |          |              |      |           |
|---------------------------------------|----------|--------------|------|-----------|
| 9. (a) Applicable Construction Code   | ASME III | 1971         | W/72 | N/A       |
|                                       | ASME III | 1974 Edition | S/74 | N/A       |
| (b) Applicable Edition of Section III |          |              |      | Code Case |

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

(c) Design Responsibilities Crosby Valve & Gage.

6. Identification of Components Repaired or Replaced and Replacement Components

7. Description of Work Crosby valve S/N N-59303-00-0001 was rebuilt by Toledo Edison under MWO# 1-91-1603-02. Testing was performed and certified by Wyle Test Labs report # 42031-1 \*\* Testing performed under MWO# 1-90-1603-05. Valve that was rebuilt, S/N N59303-00-0001 was installed into the N-56264-00-0001 location by MWO # 1-90-1603-04. A VT-2 leakage test was conducted at N.O.P. & Temperature.

4. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ VT-2  
Pressure     \*\*     psi Test Temp.     \*\*     °F MWO# 1-90 1603-04  
Pressure Relief Valve: Service     Steam     Size     Model HB-86-BPE 4X11X6      
\*\* Valve testing by Wyle Lab Opening Pressure     \*\*     Blowdown (if applicable):     N/A      
report # 42031-1 Set Pressure and Blowdown Adjustments made at     Wyle Scientific Services      
    Huntsville, Alabama     (location) using     Steam     (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks:

M.D.R.'s for N59303-00-0001 and N56264-00-0005 attached

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repaired/Replacement  
conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20Expiration Date 7/17/92Signed Robert E Donnell

Quality Control Manager

Date 10 DEC, 19 91

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the

components described in this Owner's Report during the period 5-17-91 to 12-11-91, and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Inspector's Signature Shall FaganDate 11-11-91

Commissions

OHIO COMM. NB-9800 (B.N.I.)  
National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-102, current editions.

NB-102

Certificate of Authorization No. 316to use the "VR" stamp expires Dec. 13, 19 92Certificate of Authorization No. 20to use the "NR" stamp expires July 17, 19 92Date 10 DEC, 19 91Signed Toledo Edison

Repair Organization

R E Donnell

Authorized Representative

Quality Control Mgr.  
Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State or Province of Ohio and employed by  
H.S.B.I. & I. COMPANY of Hartford, CT have  
inspected the repair, modification or replacement described in this report on 12-11, 19 91 and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Inspector's Signature Shall FaganDate 11-11-91

Commissions

NB-9800 OHIO COMM.



**FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 12-05-91  
Name  
300 Madison Ave., Toledo, OH 43652  
Address Sheet 1 of 1
2. Plant Davis Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR. 2, Oak Harbor, OH 43449  
Address MWO # 1-00-2091-00  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name Authorization No. 20  
5501 N. SR. 2 Oak Harbor, OH 43449 Expiration Date 7-17-92  
Address
4. Identification of Systems Pressurizer Spray Valve RC-2
5. (a) Applicable construction Code ASME III 1971 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986  
 (c) Design Responsibilities Velan Engineering Companies
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| Stem              | Velan                | 7913-211D072              | N/A                | RC-2                                    | 1988       | Replaced                         | NO                            |
| Bonnet            | Velan                | 275                       | N/A                | RC-2                                    | 1974       | Repaired                         | NO                            |

7. Description of Work Replaced the stem of RC-2 with new item. Repaired body to bonnet gasket surface on bonnet by machining .012 inches.

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure X Other [ ]  
 Pressure 2155 psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
 using N/A (Test Medium)

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: VELAN ENGINEERING COMPANIES  
Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair and Replacement  
conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NB

Certificate of Authorization No. 20 Expiration Date 7-17-92

Signed Robert E. Donnellon QC MANAGER Date 12/5, 19 91  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of OHIO and employed by H.S.B.T. & T. of Hartford, Conn have inspected the components described in this Owner's Report during the period 9-16-91 to 12-11-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Date 11-21-91 Commissions NB-9800 (B.N.T.) Ohio Comp.  
National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-012, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ have inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions \_\_\_\_\_



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date April 5, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address
2. Plant Davis Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR. 2, Oak Harbor, OH 43449 1-90-2342-00  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp ND  
Name  
5501 N. SR. 2 Oak Harbor, OH 43449 Authorization No. 20  
Address Expiration Date 7-17-92
4. Identification of System Instrument tubing from 12"-GCB-8 decay heat
5. (a) Applicable Construction Code ASME III 1971 Edition 6/30/73 Addenda N/A Code Case  
ASME III  
ASME III  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is N/A  
 (c) Design Responsibilities Dragon Manufacturing
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO.                      | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|--|------------|-------------------------|-------------------------------|
| Valve             | Dragon Mfg.          | N10799                    | TE 16              | P1-1538  | 74         | Replaced                | Yes                           |
| Valve             | Dragon Mfg.          | N10852                    | TE 16              | Isolation<br>P1-1438A  | 74         | Replaced                | Yes                           |
| Valve             | Dragon Mfg.          | N10836                    | TE 16              | Isolation<br>Decay Head Pump<br>#2 Suction Gage<br>Isolation | 74         | Replaced                | Yes                           |

7. Description of Work Replaced 3 Dragon Valves in Decay Heat Train Two Suction Gage Piping
- [ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other (NA)  
 Pressure NA psi Test Temp. NA °F  
 Pressure Relief Valve: Service NA Size NA  
 Opening Pressure NA Blowdown (if applicable) NA  
 Set Pressure and Blowdown Adjustments made at NA  
 using NA (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 5. Remarks:

Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20Expiration Date 7-17-92Signed Robert E. Donnell QC MANAGERDate 8 APR 91 19 91

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the

components described in this Owner's Report during the period 1-29-91 to 4-8-91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Mark C. Lewis  
Inspector's Signature

1-4-91  
Date

Commissions

NB 9800 (B.N.I.) Ohio Comm.  
National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-012, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_, 19 \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_, 19 \_\_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organisation Authorised Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_

of \_\_\_\_\_ have  
inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_\_ and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions



**FORM NIS-2/MR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 11/12/91  
Name  
300 Madison Ave., Toledo, OH 43652  
Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449  
Address

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449  
Address

Authorization No. 20  
 Expiration Date 7/17/92

4. Identification of System Main Steam

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities Powell Valve

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT                                 | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACED         | ASME CODE STAMPED (YES OR NO) |
|---|----------------------|---------------------------|--------------------|---|------------|------------------------------|-------------------------------|
| Check Valve                                       | Powell               | S/N 68351                 | N/A                | MS-734                                  | N/A        | Repaired<br>Replaced<br>Disc | No                            |
| See block 9 attachments for CMTR of disc CM 7197B |                      |                           |                    |   |            |                              |                               |

7. Description of Work Valve was disassembled, refurbished, and reassembled.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other ☒ VT-2

Pressure 870 psi Test Temp. 532 °F

Pressure Relief Valve: Service N/A Size N/A

Opening Pressure N/A Blowdown (if applicable) N/A

Set Pressure and Blowdown Adjustments made at N/A

N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



8. REMARKS:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair/replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donahue Quality Control Manager Date 14 Nov 19 91  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I. of Hartford, CT. have inspected the

components described in this Owner's Report during the period 1-15-91 to 11-27-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Date 11-27-91 Commissions NB-9800 OHIO COMM. (B.N.I.)  
National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 315 to use the "VB" stamp expires Dec. 13 19 92

Certificate of Authorization No. 20 to use the "NB" stamp expires July 17 19 92

Date 11-27-91 Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the repair, modification or replacement described in this report on 11-27-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



THE WM. POWELL COMPANY



August 21, 1991

Design Engineering Manager D-8  
Davis-Besse Mail Stop 3043  
Toledo Edison Company  
5501 N. State Route 2  
Oak Harbor, OH 43449

Reference: P.O. No. S-013746-D90  
Powell Order 451136

Gentlemen:

We hereby certify that the supplied product complies with all of the requirements of the purchase order and processed in accordance with Powell's Quality Assurance Manual PS-114.1 Change Notice #13 dated 10/26/88.

We hereby certify that the supplied product is identical in fit, form, function, material and weight of the part used in the originally supplied

2 - Disc for 6" Figure 6061WE  
Stock No. T328267, Line Item 1  
P/N 6-035800-15002-00  
Code CM 7196B and CM7197B

Very truly yours,

THE WM. POWELL COMPANY  
Plant No. 2

Hudson Knock  
Q.A. Manager

FW/bw

|    |              |
|----|--------------|
| PO | S-013746-D90 |
| PG | 1 OF 2       |



FORM NIS-2/NE-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date July 14, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 1-91-0207-00  
 Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7/17/92

4. Identification of System Decay Heat Removal  
MSS SP58

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition Addenda Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities ITT Grinnell

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| GCB-10-H32        | Grinnell             | 8362                      | N/A                | A-123                                   | N/A        | Replace                          | No                            |
|                   | Grinnell             | 7977                      | N/A                | A-123                                   | N/A        | Replacement                      | No                            |

7. Description of Work Replaced Hydraulic snubber 8362 with rebuilt hydraulic snubber 7977

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other (NA)  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A (location)  
 (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



5. Remarks:

Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

Signed Robert S. Donnellon

Quality Control Manager

Date 17 JUL 91

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the

State or Province of Ohio

and employed by H.S.B.I. & I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 3-6-91 to 7-22-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]

17-22-91

Commission

NB-9800 (B.N.I.) Ohio Comm.

Inspector's Signature

Date

National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-613, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VB" stamp expires \_\_\_\_\_ 19 \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_ 19 \_\_\_\_\_

Date \_\_\_\_\_ 19 \_\_\_\_\_ Signed \_\_\_\_\_

Repair Organization

Authorized Representative

Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_

of \_\_\_\_\_

have

inspected the repair, modification or replacement described in this report on \_\_\_\_\_ 19 \_\_\_\_\_ and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission



**FORM NIS-2/NR-1/MVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date July 14, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
Name Address MWO # 1-91-0207-00  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92

4. Identification of Systems Decay Heat Removal

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition          Address          Code Case           
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is B6  
 (c) Design Responsibility ITT Grinnell

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| GCB-10-H32        | Grinnell             | 8320                      | N/A                | A-124                                   | N/A        | Replace                           | No                            |
|                   | Grinnell             | 8004                      | N/A                | A-124                                   | N/A        | Replacement                       | No                            |

7. Description of Work Replaced Hydraulic snubber 8320 with rebuilt hydraulic snubber 8004

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Simulated Operating Pressure [ ] Other (NA)  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A (location) N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

Signed Robert E. Donnellon  
Owner or Owner's Designee, Title

Quality Control Manager

Date 1934-7-19

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the

State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 3-6-91 to 7-22-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Mark C. Ferguson  
Inspector's Signature

17-22-91 Commission  
Date

NB-9800 (B.N.I.) Ohio Comm.

National Board, State, Province and Endorsements

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-163, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_ 19 \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_ 19 \_\_\_\_\_

Date \_\_\_\_\_ 19 \_\_\_\_\_ Signed \_\_\_\_\_  
Repair Organization Authorized Representative Title

### CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_

of \_\_\_\_\_

have

inspected the repair, modification or replacement described in this report on \_\_\_\_\_ 19 \_\_\_\_\_ and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-45 and NB-163, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission \_\_\_\_\_



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date July 14, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 1-91-0219-00  
Name Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92
4. Identification of Systems Decay Heat Removal
5. (a) Applicable Construction Code MSS SP58 1967 Edition ANSI B31.1 Addenda Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities ITT Grinnell
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACED | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------|-------------------------------|
| OCB-1-H4          | Grinnell             | 10163                     | N/A                | A-87                                    | N/A        | Replace              | No                            |
|                   | Grinnell             | 14200                     | N/A                | A-87                                    | N/A        | Replacement          | No                            |

7. Description of Work Replaced Hydraulic snubber 10163 with rebuilt hydraulic snubber 14200

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other (NA)  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A (location)  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 19 JUL 1991  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I. of Hartford, CT. have inspected the

components described in this Owner's Report during the period 3-6-91 to 7-22-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Date 7-24-91 Commission NB-9800 (B.N.I.) Ohio Comm.  
National Board, State, Province and Endorsement

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-012, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organization Authorized Representative Title

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ have inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-45 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission \_\_\_\_\_



# FORM NIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date July 14, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 1-91-0219-00  
Name Address Repair Organisation P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorisation No. 20  
Name Address Expiration Date 7/17/92
4. Identification of Systems Decay Heat Removal
5. (a) Applicable Construction Code MSS SP58 ANSI B31.1 1967 Edition        Addenda        Code Case         
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities ITT Grinnell
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| GCB-1-H38         | Grinnell             | 17741                     | N/A                | A-91                                    | N/A        | Replace                          | No                            |
|                   | Grinnell             | 14501                     | N/A                | A-91                                    | N/A        | Replacement                      | No                            |

7. Description of Work Replaced Hydraulic snubber 17741 with rebuilt hydraulic snubber 14501

( ) Continued

8. Tests Conducted:
 

|  |                                     |                                |               |
|--|-------------------------------------|--------------------------------|---------------|
| Hydrostatic ( )  | Pneumatic ( )                       | Nominal Operating Pressure ( ) | Other (NA)    |
| Pressure <u>N/A</u> psi                                  | Test Temp. <u>N/A</u> °F            |                                |               |
| Pressure Relief Valve: Service <u>N/A</u>                | Size <u>N/A</u>                     |                                |               |
| Opening Pressure <u>N/A</u>                              | Slowdown (if applicable) <u>N/A</u> |                                |               |
| Set Pressure and Slowdown Adjustments made at <u>N/A</u> | (location) <u>N/A</u>               |                                |               |
| <u>N/A</u>   | using <u>N/A</u>                    |                                | (Test Medium) |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

Signed Robert E. Donnellon  
Owner or Owner's Designee, Title

Quality Control Manager

Date 19 July 1994

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. &amp; I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 3-6-91 to 7-22-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Date 7-24-91

Commissions

NB-9800 (B.N.I.) Ohio Comm.

National Board, State, Province and Endorsement

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organization Authorized Representative Title

## CERTIFICATE OF INSERVICE

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ have

inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



# Form 415-2/NR-1/VR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date November 14, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
 Address MWO# 1-91-0221-10/C605592D91  
 Repair Organisation P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorisation No. 20  
 Address Expiration Date 7/17/92

4. Identification of System Steam Generator 1-2

5. (a) Applicable Construction Code ASME XI is 86 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilised for Repairs or Replacements is 86  
 (c) Design Responsibilities B&W Nuclear Service Co.

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT   | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|---------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| Steam Generator 1-2 | Babcox & Wilcox-NED  | 620-0014-55-12            | N-159              | S/G 1-2                                 | 1972       | Repaired Tube 77-1               | Yes                           |
| Tube Plug           | ABB-CE Nuclear Power | DB-001                    | N/A                | N/A                                     | 1990       | Repl.                            | No N-2037                     |

7. Description of Work See the attached NR-1 generated by ABB/CE. A complete description of work accomplished is documented in MWO 1-91-0221-10. The VT-2 as referenced on the attached NR-1 was not applied to the welded tube plug. It applies to the bolted manways/handholes only. See MWO 1-91-0221-08/10

[ ] Continued

8. Tests Conducted: Hydraulic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other ( N/A )  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A (location) N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NB-1/VS-1/VR-1 (BACK)

9. Remarks:

Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair/Replace  
conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 2/22/91 19 91  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.  
of Hartford, CT. have inspected the

components described in this Owner's Report during the period 8-28-91 to 11-22-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Michael J. Fagan 11/22/91 Commission NB-9800, OHIO COMM. (B.N.I.)  
Inspector's Signature Date National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 92

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92

Date        19        Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT. have inspected the repair, modification or replacement described in this report on        19        and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-45 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission



FORM NR-1 REPORT OF REPAIR ☒ MODIFICATION ☐ OR INSTALLATION OF REPLACEMENT(S) ☐  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by ABB/CE Nuclear Power C605592D91  
(name) (year, month, day, year & P.O. no., job no., etc.)  
1000 Prospect Hill Road, Windsor, Ct. 06095-0500  
(address)
2. Owner Toledo Edison Company  
(name)  
300 Madison Avenue, Toledo, Ohio 43652  
(address)
3. Name, address and identification of nuclear power plant: Davis-Besse Nuclear Power Station  
5901 North State Route 2, Oak Harbor, OH. 43449
4. Identification of system O.T.S.G. Primary Side
5. a. Identification of component repaired, modified or replaced Once Thru Steam Generator  
b. Name of manufacturer Babcock & Wilcox-NED, Barberton, Ohio  
c. Identifying nos. 620-0014-55-12 N-159 N/A N/A 1972  
(unit's serial no.) (part's id. no.) (manufacturers no.) (other) (year built)
6. Applicable section(s) XI of ASME Code, 1986\* edition N/A addenda N/A Code Case N/A
7. Design responsibilities B&W Nuclear Service company
8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure psi. \*\*See Below
9. Description of work Installation of Welded Tube Plug @ S/G 1-2A,  
(use of additional sheets or sketches is acceptable if proper; identified)  
Location 77-1. Tube Plug Serial No. DB-001, Job Code No. J-8055-1A
10. Remarks: The installation of the welded tube plug is based on Toledo Edison's relief request, Docket Number 50-346, License Number NPF-3, Serial Number 1978.

\*Installation of the welded tube plug complies with the ASME Code Section XI 1989 Edition, per the noted relief request.

\*\*Testing and final VT-2 inspection shall be performed Toledo Edison and documented on the NIS-2 form.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all design, material and workmanship on this Repair conforms to the applicable section of the ASME Code.  
(repair, modification or replacement)  
Certificate of Authorization no. NR-2 to use the "NR" stamp expires March 17, 1993 10/9  
Signed ABB/CE I.D. Ford Manager, Quality Assurance 1991  
(repair organization) (signature) (title) (date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of Ohio and employed by H.S.B.I&I.C. of Hartford, Ct. have inspected the repair, modification or replacement described in this report on 10-9 1991 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-9 1991 Signed M. Ferguson N.B. 9800(NBI) Ohio  
(signature) (commission no. including endorsement, state or province and number)  
(authorized inspector)



Docket Number 50-346  
License Number NPF-3  
Serial Number 1978  
Attachment  
Page 1

## RELIEF REQUEST

Request for Relief from ASME Code Section XI, Article IVB-4410, to Permit Machine Welding of Steam Generator Tube Plugs.

### Component Description

Once Through Steam Generator Tubes

### ASME Code Class

ASME Section III, Class A - 1968 Edition through summer 1968 Addenda

### Applicable Code Requirement

Section XI of the 1986 edition, Article IVB-4410 states:

"Heat exchanger tube or tubesheet bore hole plugging shall be in accordance with the rules of IVB-4420 or IVB-4440."

IVB-4420 addresses explosive welding of steam generator tube plugs. IVB-4440 addresses manual welding of steam generator tube plugs. Machine welding of steam generator tube plugs is not sanctioned by the 1986 or earlier editions of Section XI.

### Statement of Requested Relief

Relief is requested from the IVB-4410 requirement to explosively weld or manually weld steam generator tube plugs in accordance with the rules of IVB-4420 or IVB-4440, respectively.

### Basis for Requested Relief

During the seventh refueling outage (7RFO), an explosive welded steam generator tube plug in the hot leg side of the number 2(A) steam generator is to be backed up by a second welded plug. The explosive welded plug being backed up is suspected of being responsible for the small primary to secondary leak which existed during the last cycle of operation. The suspect plug is fabricated from Inconel 600 material. Babcock & Wilcox Nuclear Services Company (BWNS) informed Toledo Edison that similar plugs installed at other plants had been subject to primary water stress corrosion cracking (PWSCC). Other welded plugs of this type installed at the Davis-Besse Nuclear Power Station are being backed up with rolled mechanical steam generator tube plugs. However, this particular welded plug cannot be backed up with a mechanical plug because there is insufficient tube length remaining and a welded plug will be installed. The welded plug is being fabricated from ER-NI-CR3-SFA-5.14 (INCO 82) material. Machine welding is to be used to weld the back up plug in order



Docket Number 50-346  
License Number NPF-3  
Serial Number 1978  
Attachment  
Page 2

to maintain radiation exposure to workers as-low-as-reasonably-achievable. Manual welding of the plug would involve a radiation dose of approximately one person-Rem. The alternatives of not installing or manual welding the back up plug are undesirable. Manual welding would incur unnecessary radiation exposure and is inconsistent with the principle of maintaining radiation dose as-low-as-reasonably-achievable. Backing up the plug is desirable from the standpoint of maintaining a high degree of steam generator tube integrity.

#### Proposed Alternative Requirements

Machine welding of tube plugs will be performed in accordance with the requirements of Section XI Article IWB-4430, Tube or Tubesheet Hole Plugging by Fusion Welding, incorporated in the 1986 addenda and subsequent editions of the ASME Code. The NRC has proposed a revision to 10 CFR 50.55a to endorse ASME Code editions and addenda through the 1989 edition (56FR3796 dated January 31, 1991). No restrictions on the use of IWB-4430 were indicated in the proposed rule. Therefore, Toledo Edison concludes that adoption of the requirements of IWB-4430 of a later Code edition (1986 edition with addenda through 1988 and the 1989 edition), provides an acceptable level of quality and safety.



Toledo Edison has contracted ABB/Combustion Engineering (CE) to perform steam generator inspections and steam generator tube plug installations scheduled for the 7RFO. As noted above, in addition to the installation of several mechanical rolled steam generator tube plugs, a single welded plug in the number 2(A) steam generator is to be backed up with a welded plug. CE plans to use machine welding to weld the back up plug in place. Machine welding the plug will minimize radiation dose to workers. Manual welding of the plug would involve a radiation dose of approximately one person-Rem.

During review of the CE welding procedures, which first became available for Toledo Edison review on August 22, 1991, questions were raised regarding the sanctioning of machine welding of steam generator tube plugs by the 1986 and earlier editions of the ASME Code. As required by 10 CFR 50.55a, the DBNPS Inservice Inspection Program, which governs repairs and replacements, references the 1986 edition of the ASME Code. The 1986 edition is the most recent edition of the ASME Code currently approved by the NRC in 10 CFR 50.55a(b).

The 1986 and earlier editions of Section XI of the ASME Code, Article IVB-4410, require that steam generator tube plugging be in accordance with IVB-4420 or IVB-4440. IVB-4420 addresses explosive welding of steam generator tube plugs. IVB-4440 addresses manual welding of steam generator tube plugs. Machine welding of tube plugs is not addressed. After discussions with CE, the Authorized Nuclear Inservice Inspector (ANII) and the Authorized Inspection Agency (AIA), on August 30, 1991, Toledo Edison concluded that there is no avenue available within the NRC endorsed editions of the ASME Code which sanctions machine welding of the replacement steam generator tube plug.

The alternatives of not installing or manual welding the back up plug are undesirable. Manual welding would incur unnecessary radiation exposure and is inconsistent with the principle of maintaining radiation dose as-low-as-reasonably-achievable. Backing up the plug is desirable from the standpoint of maintaining a high degree of steam generator tube integrity. Accordingly, Toledo Edison has opted to request NRC approval of relief from the requirements of Section XI, Article IVB-4410 of the 1986 edition of ASME Code. The relief request is enclosed.

Toledo Edison notes that beginning with the 1986 addenda, Section XI, Article IVB-4430, Tube or Tubesheet Hole Plugging by Fusion Welding, was added. IVB-4430 addresses requirements for machine welding of tube plugs. The relief request would adopt these requirements as an alternative to IVB-4410 of the 1986 edition of the ASME Code. Toledo Edison believes that there are no technical issues related to approval of this alternative since the NRC has proposed a revision to 10 CFR 50.55a to endorse ASME Code editions and addenda through the 1989 edition (56FR3796 dated January 31, 1991). No restrictions on the use



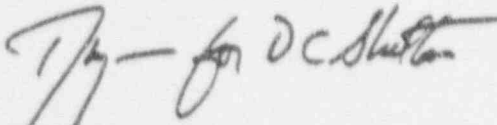
Docket Number 50-346  
License Number NPF-3  
Serial Number 1978  
Page 3

of IWB-4430 were indicated in the proposed rule. Therefore, Toledo Edison concludes that adoption of the requirements IWB-4430 of a later Code edition (1986 edition with addenda through 1988 and the 1989 edition), provides an acceptable level of quality and safety.

Toledo Edison requests NRC approval of the enclosed relief request by September 20, 1991, the scheduled date for installation of the back up welded plug.

If you have any questions regarding the relief request, please contact Mr. R. W. Schrauder, Manager - Nuclear Licensing, at (419) 249-2366.

Very truly yours,



PWS/dlm

Attachment

cc: P. M. Byron, NRC Region III, DB-1 Senior Resident Inspector  
A. B. Davis, Regional Administrator, NRC Region III  
J. B. Hopkins, NRC/NRR DB-1 Senior Project Manager  
Utility Radiological Safety Board



**FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date June 19, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO 1-91-0223-00  
Name Address Repair Organisation P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorisation No. 20  
Name Address Expiration Date 7/17/92
4. Identification of Systems Decay Heat
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86  
 (c) Design Responsibilities Toledo Edison
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| GCB-8-H11 (A114)  | ITT Grinnell         | 17220                     | N/A                | N/A                                     | N/A        | Replaced                | N/A                           |
| GCB-8-H11 (A114)  | ITT Grinnell         | 16826                     | N/A                | N/A                                     | N/A        | Replacement             | N/A                           |
| GCB-8-H4 (A113)   | ITT Grinnell         | 10931                     | N/A                | N/A                                     | N/A        | Replaced                | N/A                           |
| GCB-8-H4 (A113)   | ITT Grinnell         | 8906                      | N/A                | N/A                                     | N/A        | Replacement             | N/A                           |

7. Description of Work Replaced snubber 17220 with snubber 16826 that was rebuilt under MWO 1-90-2200-01.  
Replaced snubber 10931 with snubber 8906 that was rebuilt under MWO 1-89 2200-03.  
Additional Construction Code MSS-SP58-1967

[ ] Continued

8. Tests Conducted: Hydrostatic (NA) Pneumatic (NA) Nominal Operating Pressure (NA) other (NA)  
 Pressure NA psi Test Temp. NA °F  
 Pressure Relief Valve: Service NA Size NA  
 Opening Pressure NA Blowdown (if applicable) NA  
 Set Pressure and Blowdown Adjustments made at NA  
 (location) NA using NA  
 (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: NA  
Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
repair or replacement  
 conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92  
 signed Robert E Donnell Quality Control Manager Date 26 JUNE 19 91  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
 State or Province of Ohio and employed by H.S.B.I. & I.  
of Hartford, CT. have inspected the  
 components described in this Owner's Report during the period 6-10-91 to 6-27-91 and state that to  
 the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
 examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
 this inspection.

Michael Foy 16-27-91 Commissions NB-9800 (B.N.I.) Ohio Comm.  
 Inspector's Signature Date National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
 relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
 in the publications NB-65 and NB-612, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_, 19 \_\_\_\_.

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_, 19 \_\_\_\_.

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organisation Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
 certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_  
 of \_\_\_\_\_ have  
 inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and  
 state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
 accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
 expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
 Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
 arising from or connected with this inspection.

Commissions \_\_\_\_\_



# PCSM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date June 19, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name  
Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 1-91-0223-01  
Name Repair Organization P.O. No., Job No., etc.  
Address
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Expiration Date 7/17/92  
Address
4. Identification of Failure Decay Heat
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86  
 (c) Design Responsibility Toledo Edison

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| GCB-10-H13 (A116) | ITT Grinnell         | 7954                      | N/A                | N/A                                     | N/A        | Replaced                | N/A                           |
| GCB-10-H13 (A116) | ITT Grinnell         | 10119                     | N/A                | N/A                                     | N/A        | Replacement             | N/A                           |

7. Description of Work Replaced snubber 7954 with snubber 10119 that was re-built under MWO 1-90-2200-06. Additional construction code MSS-SP58-1967

( ) Continued

8. Tests Conducted: Hydrostatic NA Pneumatic NA Nominal Operating Pressure NA Other NA  
 Pressure NA psi Test Temp. NA °F  
 Pressure Relief Valve: Service NA Size NA  
 Opening Pressure NA Blowdown (if applicable) NA  
 Set Pressure and Blowdown Adjustments made at NA (location) NA  
 using NA (Test Medium)

\*: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: NA  
Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI.  
repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnellon Quality Control Manager Date 26 JUNE 1991  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the

components described in this Owner's Report during the period 3-6-91 to 6-26-91, and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Michael C. Foye 16-26-91 Commissions NB-9800 (B.N.I.) Ohio Comm.  
Inspector's Signature Date National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-612, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organization Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificates of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_

of \_\_\_\_\_ have  
inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
and NB-612, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions \_\_\_\_\_



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date June 19, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO 1-91-0223-02  
Name Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92
4. Identification of Systems Decay Heat
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986  
 (c) Design Responsibilities Toledo Edison

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| CCB-6-H12 (A-80)  | ITT Grinnell         | 17375                     | N/A                | N/A                                     | N/A        | Replaced                         | N/A                           |
| CCB-6-H12 (A-80)  | ITT Grinnell         | 24077                     | N/A                | N/A                                     | N/A        | Replacement                      | N/A                           |

7. Description of Work Replaced snubber 17375 with snubber 24077 that was rebuilt under MWO 1-90-2200-06. Additional Construction Code MSS-SP58-1967

( ) Continued

8. Tests Conducted: Hydrostatic (NA) Pneumatic (NA) Nominal Operating Pressure (NA) Other (NA)  
 Pressure NA psi Test Temp. NA °F  
 Pressure Relief Valve: Service NA Size NA  
 Opening Pressure NA Blowdown (if applicable) NA  
 Set Pressure and Blowdown Adjustments made at NA (location) NA  
NA using NA (Test Medium)

\*: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: NA  
Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI.  
repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnellon Quality Control Manager Date 26 JUNE 1991  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.  
of Hartford, CT. have inspected the

components described in this Owner's Report during the period 3-5-91 to 6-26-91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Inspector's Signature [Signature] Date 6-26-91 Commission NB-9800 (B.N.I.) Ohio Comm.  
National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-63 and NB-612, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_ 19 \_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_ 19 \_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organization Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_  
of \_\_\_\_\_ have  
inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-63  
and NB-612, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions \_\_\_\_\_



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 3, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address

2. Plant Davis-Besse Nuclear Power Station Unit 01  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-91-0283-00  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Address Expiration Date 7/17/92

4. Identification of Systems Main Steam

5. (a) Applicable Construction Code MSS SP58  
ANSI B31.1 1967 Edition Addenda        Code Case         
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/ JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|--|------------|----------------------------------|-------------------------------|
| EBB-1-SR11        | Grinnell             | 11891                     | N/A                | DB Tag# A-40                             | N/A        | Repaired                         | No                            |
| EBB-1-SR11        | Grinnell             | 11892                     | N/A                | DB Tag# A-41                             | N/A        | Repaired                         | No                            |

7. Description of Work Removed Hydraulic Snubbers A-40 and A-41 Rebuilt with new Seal Kit, performed functional test and reinstalled on EBB-1-SR11.

[ ] Continued

8. Tests Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Functional Test

Pressure N/A psi Test Temp. N/A °F

Pressure Relief Valve: Service N/A Size       

Opening Pressure N/A Blowdown (if applicable) N/A

Set Pressure and Blowdown Adjustments made at N/A (location) N/A

N/A using        (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair repair or replacement conform to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR  
 Certificate of Authorization No. 20 Expiration Date 7/17/92  
 signed R. E. Donnell Quality Control Manager Date 7 OCT 1991  
 Owner or Owner's Designer, Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I. of Hartford, CT. have inspected the components described in this Owner's Report during the period 3-28-91 to 10-7-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Date 10-7-91 Commission NA-9800 OHIO COMM. (B.N.I.)  
 National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications MB-65 and MB-102, current editions.

Certificate of Authorization No. 316 to use the "VB" stamp expires Dec. 13 1992  
 Certificate of Authorization No. 20 to use the "RM" stamp expires July 17 1992  
 Date 19 Signed Toledo Edison Authorized Representative Quality Control Mgr.  
 Repair Organization Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. COMPANY of Hartford, CT. have inspected the repair, modification or replacement described in this report on 19 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication MB-65 and MB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission NA-9800 OHIO COMM. (B.N.I.)



**FORM MIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date July 14, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 1-91-0283-01  
Name Address Repair Organisation P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorisation No. 20  
Name Address Expiration Date 7/17/92
4. Identification of Systems Main Steam  
MSS SP58
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition        Addenda        Code Case         
 (b) Applicable Edition of Section XI Utilised for Repairs or Replacements is 86  
 (c) Design Responsibilities ITT Grinnell
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| EBB-2-H31         | Grinnell             | 14152                     | N/A                | A-52                                    | N/A        | Replace                           | No                            |
|                   | Grinnell             | 17883                     | N/A                | A-52                                    | N/A        | Replacement                       | No                            |

7. Description of Work Replaced Hydraulic snubber 14152 with rebuilt hydraulic snubber 17883

[ ] Continued

8. Tests Conducted:   Hydrostatic [ ]   Pneumatic [ ]   Nominal Operating Pressure [ ]   Other (NA)
- Pressure N/A psi   Test Temp. N/A °F
- Pressure Relief Valve: Service N/A   Size N/A
- Opening Pressure N/A   Slowdown (if applicable): N/A
- Set Pressure and Slowdown Adjustments made at N/A (location) N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks:

Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

Signed Robert E. Donnell

Quality Control Manager

Date 19 Jan 7, 19 91

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the

State or Province of Ohio

and employed by H.S.B.I. A I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 3-6-91 to 7-22-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature]

Date 7-22-91

Commission

NB-9800 (B.N.I.) Ohio Comm.

National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-612, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VA" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "V" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_

Repair Organisation

Authorized Representative

Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_

of \_\_\_\_\_

have

inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission



**FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 07/22/91  
Name  
300 Madison Ave., Toledo, OH 43652  
Address Sheet 1 of 1
2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449  
Address MVO# 1-91-0283-04  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449  
Address Authorization No. 20  
 Expiration Date 7/17/92
4. Identification of Systems Main Steam  
MSS SP58
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition          Addenda          Code Case           
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86  
 (c) Design Responsibilities ITT Grinnell
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| M1181/H4          | Grinnell             | 14373                     | N/A                | T-310                                   | N/A        | Replace                 | No                            |
| M1181/H4          | Grinnell             | 16778                     | N/A                | T-310                                   | N/A        | Replacement             | No                            |

7. Description of Work Replaced hydraulic snubber 14373 with rebuilt hydraulic snubber 16778.

( ) Continued

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other (N/A)
- Pressure N/A psi Test Temp. N/A °F
- Pressure Relief Valve: Service N/A Size N/A
- Opening Pressure N/A Blowdown (if applicable) N/A
- Set Pressure and Blowdown Adjustments made at          (location)  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this \_\_\_\_\_  
 conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 29 July 19 91  
 Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
 State or Province of Ohio and employed by H.S.B.I. & I.  
 of Hartford, CT. have inspected the

components described in this Owner's Report during the period 3-6-91 to 7-29-91, and state that to  
 the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
 examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
 this inspection.

Inspector's Signature [Signature] Date 7-29-91 Commissions NB-9800 (B.N.I.) Ohio Comm.  
 National Board, State, Province and Endorsement

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
 relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
 in the publications NB-65 and NB-612, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_, 19 \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_, 19 \_\_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
 Repair Organization Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
 certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_  
 of \_\_\_\_\_ have  
 inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_\_ and  
 state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
 accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
 and NB-612, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty,  
 expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
 Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
 arising from or connected with this inspection.

Commissions \_\_\_\_\_



FORM NIS-2/MR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 7, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 NVO # 1-91-0333-00  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7/17/92
4. Identification of System LPI-Low Pressure Injection  
NSS SP5B
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition — Addenda — Code Case —  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell
6. Identification of Components Required or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| CCB-6-H10         | Grinnell             | 12184                     | N/A                | DB TAG C253                             | N/A        | Replace                 | No                            |
| CCB-6-H10         | Grinnell             | 17908                     | N/A                | DB TAG C253                             | N/A        | Replacement No          |                               |

7. Description of Work Replaced hydraulic snubber 12184 with rebuilt hydraulic snubber 17908.

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other N/A  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A (Location)  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. REMARKS: Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conform to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 7-0-7 19 91  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the components described in this Owner's Report during the period 3-6-91 to 10-7-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] 10-7-91 Commission NB-9800 OHIO COMM. (B.N.I.)  
Inspector's Signature Date National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-49 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "NB" stamp expires Dec. 13 19 92

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92

Date        19        Signed Tolado Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. COMPANY of Hartford, CT.

inspected the repair, modification or replacement described in this report on        19        and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-49 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 7, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 1-91-0333-00  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed By Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Address Expiration Date 7/17/92

4. Identification of System LPI-Low Pressure Injection  
MSS SP58

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition — Addenda — Code Case —  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| CCB-6-H10         | Grinnell             | 10107                     | N/A                | DB TAG #C-288                           | N/A        | Replaced                | No                            |
| CCB-6-H10         | Grinnell             | 10163                     | N/A                | DB TAG #C-288                           | N/A        | Replacement             | No                            |

7. Description of Work Replaced hydraulic snubber 10107 with rebuilt hydraulic snubber 10163.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other N/A  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

1 | CONTINUED

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conform to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donahue Quality Control Manager Date 7-6-91 19 91  
Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the components described in this Owner's Report during the period 3-6-91 to 10-7-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature M.C. Ferguson Date 11-7-91 Commission NB-9900 OHIO COMM (CNI)  
National Board, State, Province and Endorsements

### CERTIFICATE OF COMPLIANCE

We certify that the statements in this report are correct and the repair, modification or replacement of the pressure relief device described above is in the publications NB-43 and NB-316 to use the "VR" stamp expires Dec. 13 19 92

Certificate of Authorization No. 316 to use the "NR" stamp expires July 17 19 92

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92  
Date 7-6-91 19 91 Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

### CERTIFICATE OF INSERVICE

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. COMPANY of Hartford, CT.

inspected the repair, modification or replacement described in this report on 7-6-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-43 and NB-101, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission



**FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date November 27, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 1-91-0348-00  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7/17/92
4. Identification of System Main Steam
5. (a) Applicable Construction Code: ASME III 1971 Edition S/72 Addenda No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities Western Piping and Energy Corporation
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT      | N. E. OF MANUFACTURER           | MANUFACTURER'S SERIAL NO.        | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|------------------------|---------------------------------|----------------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| Atmospheric Vent Valve | Western Piping and Energy Corp. | S/N - II                         | N/A                | ICS-11B                                 | 1974       | Replaced Components as listed    | Yes                           |
| Plug                   | Control Components              | C.C.I. 504001 & M265050          | N/A                | N/A                                     | 1991       | N/A                              | No                            |
| Seat Ring              | Control Components              | Non-Pressure retaining component |                    |   |            |                                  |                               |

7. Description of Work Valve was disassembled and the balance seal rebuilt using the components listed in block 6.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure (X) Other ( )  
 Pressure 86 psi Test Temp. 541 °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjusted at N/A (location) N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: M. D. R. Attached for Plug; Western Piping & Energy Corporation and  
Control Components Inc. Control Components Inc. supplied the new plug.

[ ] CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
repair or replacement  
 conforms to the rules of the ASME Code, Section XI.

Type Code # NR

Certificate of Authorization No. 22 Expiration Date 7/17/92

Signed [Signature] Quality Control Manager Date 12/6, 19 91  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
 State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the

components described in this Owner's Report during the period 9-25-91 to 12-11-91, and state that to  
 the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
 examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
 this inspection.

[Signature] 12-11-91 Commissions NB-9800 OHIO COMM. (B.V.I.)  
 Inspector's Signature Date National Board, State, Province and Endorsement

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
 relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
 in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 19 92.

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 19 92.

Date 12/6, 19 91 Signed Toledo Edison  
 Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
 certificate of competency issued by the State or Province of Ohio and employed by  
H.S.B.I. & I. Company of Hartford, CT. have  
 inspected the repair, modification or replacement described in this report on 12/6, 19 91 and  
 state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
 accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty,  
 expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
 Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
 arising from or connected with this inspection.

Commissions



**FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date November 21, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 NUOR 1-91-0348-01  
Name Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92
4. Identification of System Main Steam
5. (a) Applicable Construction Code ASME III 19 71 Edition 8/72 Addenda No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86  
 (c) Design Responsibilities Rockwell International Corporation
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT      | NAME OF MANUFACTURER            | MANUFACTURER'S SERIAL NO.        | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|------------------------|---------------------------------|----------------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| Atmospheric Vent Valve | Western Piping and Energy Corp. | S/N - 1                          | N/A                | ICS-11A                                 | 1974       | Replaced Components As listed     | Yes                           |
| Plug                   | Control Components              | C.C.I.#540341 & M180310          | N/A                | N/A                                     | 1991       | N/A                               | No                            |
| Seat Ring              | Control Components              | Non-Pressure retaining component |                    |   |            |                                   |                               |

7. Description of Work Valve was disassembled and the balance seal rebuilt using the components listed in block 6.

[ ] Continued

8. Tests Conducted: Hydraulic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐  
 Pressure 861 psi Test Temp. 541 °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: see attached NPV-1 and NPT certificate; Western Piping & Eng. Corp.  
Applicable Manufacturers Data Reports to be attached

and Control Components Inc. Control Components Inc. supplied  
the new Plug.

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 2 DEC 19 91  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board or Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the  
components described in this Owner's Report during the period 3-11-91 to 12-2-91, and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Inspector's Signature [Signature] Date 11-2-91 Commissions NB-5800 (B.N.I.) OHIO COMM  
National Board, State, Province and Endorsement

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 92Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92

Date 19 Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board or Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State or Province of Ohio and employed by  
H.S.B.I. & I. of Hartford, CT have

inspected the repair, modification or replacement described in this report on 12-2-91 and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions



1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

## As Required by the Provisions of the ASME Code Rules

- Serial # I (L-660)

[illegible]

(b) National Board No. \_\_\_\_\_

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class \_\_\_\_\_ 2 \_\_\_\_\_

Edition 1971, Addenda Date Summer '72, Case No. \_\_\_\_\_

[illegible]

\*Questionnaire sheets in form of lists, sketches & drawings may be provided (1) size is 8 1/2" x 11", (2) information in 1000

Supplemental sheets in form of lists, sketches or drawings may be submitted if they are necessary to explain the data in this report. In an this data report is included on each sheet, pp. (1) each sheet is numbered and number of sheets is recorded at top of first



| Mark No.        | Material Spec. No. | Manufacturer   | Remarks      |
|-----------------|--------------------|----------------|--------------|
| (c) Bolting     |                    |                |              |
| K 70123 (I1)    | SA-194 GR7         | U.S. Steel     | Nuts         |
| 121613 (H10)    | SA-540 GR23        | Crucible Steel | Studs        |
|                 | CL 4               |                |              |
|                 |                    |                |              |
|                 |                    |                |              |
|                 |                    |                |              |
| (d) Other Parts |                    |                |              |
| N72945          | SA-106 GR B        | U.S. Steel     | Drain Nipple |
| 5418336         | SA-105 GR 2        | Republic Steel | Drain Cap    |
|                 |                    |                |              |
|                 |                    |                |              |
|                 |                    |                |              |
|                 |                    |                |              |
|                 |                    |                |              |

8. Hydrostatic test 2175 psi.

### CERTIFICATION OF DESIGN

Design information on file at Rockwell International Corp., Raleigh, N.C. 27603  
 Stress analysis report on file at N.A.  
 Design specifications certified by Anthony W. Wilk (1) Prof. Eng. State MD Reg. No. 8080  
 Stress analysis report certified by N.A. (1) Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_  
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 6-24-1974 Signed Rockwell International Corp. By R. Mohan  
 (Manufacturer) Corp. Senior Quality Assurance Engineer  
 Certificate of Authorization No. N-734 expires 1/7/77

### CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of North Carolina and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the equipment described in this Data Report on 6/24 1974, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.  
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date June 24 1974

C.R. Brown Commissions V.B.5111  
 (Inspector) (National Board, State, Province and No.)



## As Required by the Provisions of the A.M.E. Credit Rules, Eastern P.E., Dec. 1

Information-Certificate Holder's Serial No. Part 320601582 N/A C/W to N/A  
 (a) Constructed According to Drawing No. 320601582 Drawing Prepared by CONTROL COMPONENTS INC  
 (b) Description of Part Incorporated PLUG  
 (c) Applicable ASME Code Section III, Edition 1971 Addenda date 5-72 Case No. N/A Class 2  
 Remarks: PART FOR MAIN STEAM ATMOSPHERIC VENT VALVE

from 6–8 inclusive to be compared for single root versus, anterior or posterior versus, or shells of both endodermis.

7. Jacket Closure N/A  
(Describe as open and closed, for use if for gas containment, if sealed, describe or sketch)

8. (a) Design Pressure: 1065 psi at 600 ° F and Min. Pressure-Vac Temp N/A ° F

[illegible]

|                         |                              |           |                |                                  |                       |                    |                      |                |                  |           |   |     |
|-------------------------|------------------------------|-----------|----------------|----------------------------------|-----------------------|--------------------|----------------------|----------------|------------------|-----------|---|-----|
| 11. Sheet               | Material                     | N/A       | T.S.           | N/A                              | Spec. Test            | in Comp            | Adhes                | in Spec        | R                | in Length | N | in  |
|                         | (S. and S. Exam. in)         |           |                | (State of foreign specification) |                       |                    |                      |                | N/A              |           |   | N/A |
| 12. Spans               | Long                         | N/A       | H.T.           | N/A                              | R.T.                  | N/A                |                      | Stiffness      | N/A              |           |   |     |
|                         | Garth                        | N/A       | H.T.           | N/A                              | R.T.                  | N/A                |                      | No. of Courses | N/A              |           |   |     |
| 13. Holes               | 1st Material                 | N/A       | T.S.           | N/A                              | 2nd Material          | N/A                |                      |                | T.S.             | N/A       |   |     |
|                         | Location                     | Thickness | Gravel Padfoot | Reason for Padfoot               | Stiffness Specimen    | Gravel Adhes Angle | Reinforcement Method | Fast Spacing   | Ends to Pressure |           |   |     |
|                         | (a) Top, Bottom, ends        | N/A       | N/A            | N/A                              | N/A                   | N/A                | N/A                  | N/A            | N/A              |           |   | N/A |
|                         | 2nd Channel                  | N/A       | N/A            | N/A                              | N/A                   | N/A                | N/A                  | N/A            | N/A              |           |   | N/A |
|                         | If reinforcement, bolts used | (a) N/A   | 2nd N/A        | (b) N/A                          | Other Reinforcing     | N/A                |                      |                |                  |           |   |     |
| 14. 1st Design Pressure | N/A                          | 2nd or    | N/A            | °F                               | 2nd 2nd Pressure-Temp | N/A                |                      |                | °F               |           |   |     |

(1992/1993)

This report (E902-9C) was prepared from the Order Copy, A8026, 345 E 47th St., New York, N.Y. 10017



Items below to be completed for all vessels where applicable

15 Safety Valve Outlets Number N/A Size N/A Location N/A

16 Reel(s)

| Purpose (Lift, dump, etc.) | Number | Design or Size | Type | Material | Thickness | Report/Inspection Material | How Attached |
|----------------------------|--------|----------------|------|----------|-----------|----------------------------|--------------|
| <u>N/A</u>                 |        |                |      |          |           |                            | <u>N/A</u>   |
| <u>N/A</u>                 |        |                |      |          |           |                            | <u>N/A</u>   |
| <u>N/A</u>                 |        |                |      |          |           |                            | <u>N/A</u>   |

17 Inspection Methods: No. N/A Size N/A Location N/A

Openings: Handholes: No. N/A Size N/A Location N/A

Thrusts: No. N/A Size N/A Location N/A

18 Supports: Skirt N/A Lugs N/A Lugs N/A Other N/A Attached N/A

(Type or size) (Number) (Number) (Description) (Where & how)

We certify that the statements made in this report are correct and the vessel part or equipment is defined in the Code conforms to the rules of construction of the ASME Code, Section III.

(The applicable Design Specification and Design Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for equipment is responsible for furnishing a separate Design Specification and Design Report if the applicable items are not included in the component Design Specification and Design Report.)

Date June 21 19 91 Signed CONTROL COMPONENTS INC. By [Signature]  
(NPT Certificate Holder)

Certificate of Authorization Expires JUNE 7, 1991 Certificate of Authorization No. N-2696

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at CONTROL COMPONENTS INC. RANCHO SANTA MARGARITA, CA. 92688

Stress analysis report on file at N/A

Design specifications certified by ANTHONY W. WILK Prof. Eng. State MD Reg. No. 8090

Stress analysis report certified by N/A Prof. Eng. State N/A Reg. No. N/A

CERTIFICATE OF SHOP INSPECTION

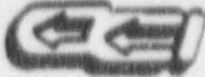
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CALIFORNIA and employed by H.S.R.I. & I. Co. at HARTFORD, CONNECTICUT have inspected the part of a pressure vessel described in this Particular Data Report on JAN 21 19 91, and state that, to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code, Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Particular Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date JAN 21 19 91

[Signature] Commissioner Ca 1424  
Inspector's Signature Registered Boilers, State, Printed and No.





Control Components Inc.  
An E&S valve company

8881 Avenida Encinas  
Foster City, CA 94024  
Tel. (714) 858-1877 • FAX (714) 858-1878 • Telex 680000

DATE: May 17, 1988  
TO: Toledo Edison  
Attn: Don Gels

FAX No. 1 (419) 249-2340

FROM: Fred Zilke  
SUBJ: See Below

Ext. 202

REF: Toledo P.O. CN1001742987

#1 - Corrected CCI's Cert of Conformance t . revision #16  
from QAN-100 Program.

#2 - Toledo Edison Item # 32011BQ

The # 19 referred to is #19 listed on Bill of Material shown  
on CCI's Body Assembly Drawing 124841. CCI's Engineering  
Department is issuing a change order to this drawing to  
change the part number call out to P/N 251130028.

#3 - Toledo Edison Item #320117Q

Wrong part number is called out B/B P/N 251130029.

CCI's Engineering Department to correct part number call out on  
body assembly drawing. C of C change to reflect correct part  
number.

#4 - Seat Ring is not considered by ASME Code to be a pressure  
boundary part. See Paragraph WC-2110 (b).

All drawing changes will be submitted to Toledo Edison as soon as  
possible.

NOTE: If this transmission is not clear, please call (714) 858 1877, X340 or X362.

Our equipment is Group III, Automatic, 24 hours Access.

cc:

Page / of 3



# FORM NIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 15, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
Name Address MWO# 1-91-0421 02  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92
4. Identification of System Pressurizer Spray Line  
MSS SP58
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition — Addenda — Code Case —  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86  
 (c) Design Responsibility Liseaga
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| PSP-1-H34         | Grinnell             | 15994                     | N/A                | C-146                                   | N/A        | Replaced                | No                            |
| PSP-1-H34         | Liseaga              | 61219/47                  | N/A                | C-146                                   | N/A        | Replacmnt.              | No                            |

7. Description of Work Replaced hydraulic snubber 15994 with new Liseaga hydraulic snubber 61219/47.

( ) Continued

8. Tests Conducted:
 

|  |                                     |                                |               |
|--|-------------------------------------|--------------------------------|---------------|
| Hydrostatic ( )  | Pneumatic ( )                       | Nominal Operating Pressure ( ) | Other (N/A)   |
| Pressure <u>N/A</u> psi                                  | Test Temp. <u>N/A</u> °F            |                                |               |
| Pressure Relief Valve: Service <u>N/A</u>                | Size <u>N/A</u>                     |                                |               |
| Opening Pressure <u>N/A</u>                              | Blowdown (if applicable) <u>N/A</u> |                                |               |
| Set Pressure and Blowdown Adjustments Made at <u>N/A</u> | (Location) <u>N/A</u>               |                                |               |
| <u>N/A</u>   | using <u>N/A</u>                    |                                | (Test Medium) |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



5. COMMENTS: Applicable Manufacturers Data Reports to be attached

1 CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR  
 Certificate of Authorization No. 20 Expiration Date 7/17/92  
 Signed Robert E. Dornik Quality Control Manager Date 15 OCT 1991  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I. of Hartford, CT. have inspected the components described in this Owner's Report during the period 3-20-91 to 10-23-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Michael J. Fagan 10-23-91 Commissions NB-9806(RNE) OHIO COMM  
 Inspector's Signature Date National Board, State, Province and Inspectors

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 1991  
 Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 1992  
 Date 15 OCT 1991 Signed Toledo Edison Authorized Representative Quality Control Mgr.  
 Repair Organization

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and a certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. COMPANY of Hartford, CT. have inspected the repair, modification or replacement described in this report and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- Owner Toledo Edison Company Date October 15, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
- Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
Name Address MWO# 1-91-0421-03  
Repair Organisation P.O. No., Job No., etc.
- Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92
- Identification of System Pressurizer Spray Line  
MSS SP58
- (a) Applicable Construction Code ANSI B31.1 1967 Edition — Addenda — Code Case —  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities Lisega
- Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACED | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------|-------------------------------|
| PSP-1-H31         | Grinnell             | 16860                     | N/A                | C-143                                   | N/A        | Replace              | No                            |
| PSP-1-H31         | Lisega               | 61219/52                  | N/A                | C-143                                   | N/A        | Replacmnt.           | No                            |

- Description of Work Replaced hydraulic snubber 16860 with new lisega hydraulic snubber 61219/52.

[ ] Continued

- Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ N/A ]  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A (location) N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



© 2007 T. W. J.

We certify that the statements made in the report are correct and this REPLACEMENT report or replacement conforms to the rules of the ASPE Code, Section XI.

Type Code Symbol Stamp NR  
 Certificate of Authorization No. 20 Expiration Date 7/17/92  
 Signed Robert E. Donnell Quality Control Manager Date 15 JUL 1991  
 Author or Author's Designation, Title

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I. of Hartford, CT. have inspected the

components described in this Owner's Report during the period 3-20-91 to 10-23-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASPE Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature 110-2351 Date 11-10-80 NA-9800 (B.N.I.) ONIO COMM.  
Commissioners  
National, Board, State, Province and Engineering

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Sec. 30.111 of the ASME Code and the National Board rules as defined in the publications NB-49 and NB-554, current editions.

In the publications NE-93 and NE-94, certain provisions  
Certificate of Authorization No. NB-102316 to use the "VE" stamp expires Dec. 13, 1980  
Certificate of Authorization No. 20 to use the "NE" stamp expires July 17, 1981  
Date \_\_\_\_\_, 19\_\_\_\_, signed Toledo Edison \_\_\_\_\_  
Repair Organization Authorized Representative Quality Control

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and my certificate of competency issued by the State or Province of Ohio of Hartford, CT  
H.S.B.I. & I. COMPANY is described in this report on

I, \_\_\_\_\_, a duly licensed and qualified inspector, hereby certify that I have inspected the repair, modification or replacement described in this report and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or completed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications W-80-102 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of earnings arising from or connected with this inspection.

Control # 1076



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 11/11/91  
300 Madison Ave Toledo, Ohio 43652 Sheet 1 of 1  
Name Address

2. Plant Davis Beesse Nuclear Power Station Unit C1  
5501 North S.R. 2 Oak Harbor, Ohio 43449 (C605592091)  
Name Address MWO# 1-91-0430-00 (C605592091) 340  
Repair Organization O. No. Job No. etc.

3. Work Performed by ABB/CE Nuclear Power Type Code Symbol Stamp NR  
1000 Prospect Hill Rd Authorization No. 2  
Windsor CT 06095-0500 Expiration Date 3-17-93  
Name Address

4. Identification of Systems Reactor Vessel Head / Steam Generator Vent Line

5. (a) Applicable Construction Code ASME III 1971 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986  
 (c) Design Responsibilities Toledo Edison Company

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT        | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|--------------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| Reactor Vessel Vent Line | Toledo Edison        | N/A                       | N/A                | CCA-23                                  | 1980       | Replacement                      | No                            |

7. Description of Work Contractor installed replacement stud and nut in flange for R/V head vent line  
See attached NR-1 Data Report

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [X] Leakage  
 Pressure 2185 psi Test Temp. 430 °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments Made at N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in.  
 (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement  
conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NBCertificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 11/11/91  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I.&I. Co of Hartford Ct. have inspected the components described in this Owner's Report during the period 8-30-91 to 11-21-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Date 11/11/91 Commissions NB-9800 OHIO COMM. (B.N.I.)  
National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102 current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires 12/13 19 92Certificate of Authorization No. 20 to use the "NB" stamp expires 7/17 19 92

Date 11/11/91 19 91 Signed Toledo Edison Co Quality Control Manager  
Repair Organisation Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I.&I. Co of Hartford Ct. have inspected the repair, modification or replacement described in this report on 11/11/91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



FORM NR-1 REPORT OF REPAIR ☐ MODIFICATION ☐ OR INSTALLATION OF REPLACEMENT(S) ☒  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by ABB/CE Nuclear Power C605592D91  
(NWO 1-91-0430-00)

1000 Prospect Hill Road, Windsor, CT 06095-0500

2. Owner Toledo Edison Company

300 Madison Avenue, Toledo, OH 43652

3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Power Station

5501 North State Route 2, Oak Harbor, OH 43449

4. Identification of system RCS Reactor Coolant System

5. a. Identification of component repaired, modified or replaced Reactor Vessel Head/Steam Generator

b. Name of manufacturer Babcock & Wilcox

c. Identifying nos. See Remarks Section

6. Applicable section(s) XI of ASME Code, 19 86 edition N/A addenda N/A Code Case N/A

7. Design responsibility SAW Nuclear Service Company Toledo Edison Company 11/8/91

8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure psi 142/17

9. Description of work Install replacement stud & nut for the R/V Head Vent Line

10. Remarks: \* Testing and final VT-2 inspection shall be performed by Toledo Edison and documented on the NIS-2 form.

Block 5.c.

| MFR. S/N       | NB# | Item    | Yr. Blt. |
|----------------|-----|---------|----------|
| 620-0014-51-52 | 156 | Reactor | 1972     |
| 620-0014-55-12 | 159 | 1-2 S/G | 1972     |

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement conforms to the applicable section of the ASME Code.

Certificate of Authorization no. NR-2 to use the "NR" stamp expires March 17 1993

Signed ABB/CE [Signature] Mgr., QA 10/30 1991

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of Ohio and employed by H.S.B.I. & I.C.

on 11-8 19 91 at Hartford, CT have inspected the repair, modification or replacement described in this report on 11-8 19 91 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-8 19 91 Signed [Signature] M. Ferguson Commissions N.B. 9800 (NBI) Ohio



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 11/12/91  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
 Address MWO#1-91-0430-03&06 (C605592D91)  
 Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7/17/92

4. Identification of System Reactor Coolant System

5. (a) Applicable Construction Code ASME III Edition S/60 Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility Toledo Edison Company

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT  | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|--------------------|----------------------|---------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| Reactor Vessel CRD | Babcock & Wilcox     | 620-0014-51-52            | N-156              | T-001                                   | 1972       | Replacement                       | Yes                           |

7. Description of Work Contractor replaced 15 split nut rings and hold down bolts with washers for CRD to R/V flanges. Toledo Edison installed 1 hold down bolt during torquing per MWO 1-91-0430-06. Toledo Edison also performed VT exam.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other (X) Leakage

Pressure 2185 psi Test Temp. 448 °F

Pressure Relief Valve: Service N/A Size N/A

Opening Procedure N/A Blowdown (if applicable) N/A

Set Pressure and Blowdown Adjustments made at N/A (location) N/A

N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



CONTINUED

We certify that the statements made in the report are correct and this replacement  
conforms to the rules of the ADME Code, Section XI. repair or replacement

Type Code Symbol Stamp NR  
 Certificate of Authorization No. 20 Expiration Date 7/17/92  
 Signed Robert E. Donnell Quality Control Manager Date 17 Nov 1991  
 (Name or Other's Designation, Title)

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Ohio and employed by H.S.B.I. & I. of Hartford, CT. have inspected the components described in this Owner's Report during the period 8-27-91 to 11-21-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section IX.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature      Date      Commission      NB-9830, OHIO COM. (B.N.I.)  
National Board, State, Province and Endorsements

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conform to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-49 and NB-555, current editions.

In the publications NC-67 and NC-68, Section 10.1.1, it was stated:

Certificate of Authorization No. NB-102      316      to use the "VR" stamp expires Dec. 13, 1992

Certificate of Authorization No. 20      to use the "NR" stamp expires July 17, 1992

Date \_\_\_\_\_, 19\_\_\_\_, Signed Toledo Edison      Authorized Representative Quality Control Mgr.  
Special Organization      Title

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State of Province of Ohio and employed by  
H.S.H.I. & T. Company of Hartford, CT, is  
inspected the repair, modification or replacement described in this report on \_\_\_\_\_, is  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-3  
and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

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FORM NR-1 REPORT OF REPAIR - MODIFICATION - OR INSTALLATION OF REPLACEMENT(S) ☒ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1 Work performed by ABB/CE Nuclear Power C605592D91  
(MWO 1-91-0430-03)

1000 Prospect Hill Road, Windsor, CT 06095-0500

2 Owner Toledo Edison Company

300 Madison Avenue, Toledo, OH 43652

3 Name, address and identification of nuclear power plant Davis-Besse Nuclear Power Station  
5501 North State Route 2, Oak Harbor, OH 43449

4 Identification of system Reactor Coolant System

5 a Identification of component repaired, modified or replaced Reactor Vessel - CRD

b Name of manufacturer Babcock & Wilcox

c Identifying nos 620-0014-51-52 N-156 N/A N/A 1972

6 Applicable section(s) XI of ASME Code 19 86 edition N/A addenda N/A Code Case N/A

7 Design responsibilities B & W Nuclear Service Company Toledo Edison Company 11/8/91

8 Tests conducted: hydrostatic ☒ pneumatic ☐ design pressure ☐ pressure ☐ psi

9 Description of work Install replacement split nut rings and hold down bolts with washers for  
CRD to R/V Flanges

10 Remarks: \* Testing and final VT-2 inspection shall be performed by Toledo Edison and  
documented on the NIS-2 form.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all design, material and workmanship on this Replacement conforms to the applicable section of the ASME Code.

Certificate of Authorization no. NR-2 (to use the "NR" stamp expires March 17, 1993)

Signed ABB/CE James D. Ford Mgr. QA 10/30 1991

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of Ohio and employed by H.S.B.T. & T.C. of Hartford, CT have inspected the repair, modification or replacement described in this report on 11-8, 1991 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-8, 1991 Signed M. Ferguson Commissions N.B. 9800 (NBI) Ohio



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 15, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449  
Address MWO# 1-91-0445-00  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Address Expiration Date 7/17/92
4. Identification of System Steam Generator Drain System  
MSS SP58
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition ✓ Addenda ✓ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| C-215             | Grinnell             | 13805                     | N/A                | EBB-5-H15                               | N/A        | Repaired                          | No                            |
| C-217             | Grinnell             | 13807                     | N/A                | EBB-5-H18                               | N/A        | Repaired                          | No                            |

7. Description of Work Rebuilt and functionally tested snubbers 13805 and 13807.

( ) Continued

8. Tests Conducted:
 

|  |                                     |                                |                      |
|--|-------------------------------------|--------------------------------|----------------------|
| Hydrostatic ( )  | Pneumatic ( )                       | Nominal Operating Pressure ( ) | Other ( ) <u>N/A</u> |
| Pressure <u>N/A</u> psi                                  | Test Temp. <u>N/A</u> °F            |                                |                      |
| Pressure Relief Valve: Service <u>N/A</u>                | Size <u>N/A</u>                     |                                |                      |
| Opening Pressure <u>N/A</u>                              | Blowdown (if applicable) <u>N/A</u> |                                |                      |
| Set Pressure and Blowdown Adjustments made at <u>N/A</u> | (location) <u>N/A</u>               |                                |                      |
| <u>N/A</u>   | using <u>N/A</u>                    |                                |                      |
|  | (Test Medium)                       |                                |                      |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks:

Applicable Manufacturers Data Reports to be attached

1. CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

REPAIR

conforms to the rules of the ASME Code, Section XI.

repair or replacement

Type Code Symbol Stamp

NR

Certificate of Authorization No.

20

Expiration Date

7/17/92

Signed

Robert E. Donnellon

Quality Control Manager

Date

15 OCT 1991

Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the

State or Province of

Ohio

and employed by

H.S.B.I. & I.

of

Hartford, CT.

have inspected the

components described in this Owner's Report during the period 9-30-91 to 10-17-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

10-17-91 Date

Commission

NB-9800(ENR) OHIO COMM. National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No.

316

to use the "VE" stamp expires

Dec. 13

19 92

Certificate of Authorization No.

20

to use the "ER" stamp expires

July 17

19 92

Date

19

Signed

Toledo Edison

Repair Organization

Authorized Representative

Quality Control Mgr.

Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of

Ohio

and employed by

H.S.B.I. & I. Company

of

Hartford, CT

have

inspected the repair, modification or replacement described in this report on 10-17-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-45 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission



# FORM HIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section II

1. Owner Toledo Edison Company Date October 14, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MVO #1-91-0445-01  
Name Address Repair Organization P.O. No., Job No., etc.

3. Work Performed By Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration date 7/17/92

4. Identification of Systems Steam Generator 1-1 Drain System

5. (a) Applicable Construction Code ANSI B31.1 is 67 Edition        Addenda        Code C-6  
 (b) Applicable Edition of Section II Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities ITT Grinnell

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | TEST DATE | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|-----------|-------------------------|-------------------------------|
| C-246             | Grinnell             | 13808                     | N/A                | EBB-5-H20                               | N/A       | Repaired                | No                            |

7. Description of Work Rebuilt and functionally tested snubber 13808.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Normal Operating Procedure ( ) Other ( ) N/A  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Elevation (if applicable) N/A  
 Set Pressure and Elevation Adjustments made at N/A  
N/A using N/A (Test Media)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in.  
 (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

### CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR  
conforms to the rules of the ASME Code, Section II.  
repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 17 OCT 91  
Owner or Owner's Designee, Title

### CERTIFICATION OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.  
of Hartford, CT. have inspected the components described in this Owner's Report during the period 3-28-91 to 10-15-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section II.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Robert E. Donnell 10-15-91 Commission NR-9200(BNE) OHIO COMM.  
Inspector's Signature Date National Board, State, Province and Endorsements

### CERTIFICATION OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section II and Section III of the ASME Code and the National Board rules as defined in the publications NB-49 and NB-54, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 92

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 92

Date 17 OCT 91 Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative

### CERTIFICATION OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I. COMPANY of Hartford, CT. have inspected the repair, modification or replacement described in this report on 10-15-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made in accordance with Section II and Section III of the ASME Code and the National Board rules as defined in the publications NB-49 and NB-54, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission



# FORM NIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 15, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
 Address MWO # 1-91-0445-02  
 Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7/17/92

4. Identification of System Steam Generator 1-1 Drain System  
MSS SP58

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition        Addenda        Code Case         
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| EBB-5-H23         | Grinnell             | 13809                     | N/A                | C-247                                   | N/A        | Repaired                          | No                            |

7. Description of Work Removed, rebuilt, tested and reinstalled same snubber back into system.

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ]

Pressure N/A psi Test Temp. N/A °F

Pressure Relief Valve: Service N/A Size N/A

Opening Pressure N/A Blowdown (if applicable) N/A

Set Pressure and Blowdown Adjustments made at N/A Location: N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

REPAIR  
repair or replacement

conform to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 15 OCT 1991  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the

State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the

components described in this Owner's Report during the period 7-28-91 to 10-17-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Mark C. Foy  
Inspector's Signature

11-17-91  
Date

Commission

NB-9300 (B.N.I.) OHIO STATE  
National Board, State, Province and Inscriptions

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-454, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 1992

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 1992

Date 10 19 1991 Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the

State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT

inspected the repair, modification or replacement described in this report on 10-17-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-454, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission



# FORM NIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 15, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-91-0445-03  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Address Expiration Date 7/17/92

4. Identification of System Steam Generator Drain System

5. (a) Applicable Construction Code MSS SP58 1967 Edition ANSI B31.1 Addenda Code Case  
ANSI B31.1  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| C-248             | Grinnell             | 13810                     | N/A                | EBB-5-H25                               | N/A        | Repaired                          | No                            |

## 7. Description of Work Rebuilt and functionally tested snubber 13810.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other (N/A)  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A (location)  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 5. REMARKS:

Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

Repair

repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NRCertificate of Authorization No. 20Expiration Date 7/17/92Signed Robert E. Donnell Quality Control Manager Date 15 OCT 19 91  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the

State or Province of Ohio and employed by H.S.B.I. & Jof Hartford, CT. have inspected thecomponents described in this Owner's Report during the period 3-28-91 to 10-17-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Robert E. Donnell  
Inspector's Signature10-17-91  
Date

Commission

NR-9800, B.N.I. OHIO CODE  
National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VB" stamp expires Dec. 13 19 92Certificate of Authorization No. 20 to use the "MB" stamp expires July 17 19 92Date \_\_\_\_\_, 19 \_\_\_\_ Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed byH.S.B.I. & J. Company of Hartford, CT

inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions \_\_\_\_\_



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 18, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
Name Address MWO# 1-91-0445-04  
Repair Organisation P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
11 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92

4. Identification of Systems Steam Generator 1-1 Drain System  
MSS SP58  
 5. (a) Applicable Construction Code ANSI B31.1 1967 Edition          Addenda          Code Case           
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACED | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------|-------------------------------|
| C-250             | Grinnell             | 13812                     | N/A                | EBB-5-H32                               | N/A        | Repaired             | No                            |

## 7. Description of Work Rebuilt and functionally tested snubber 13812.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other ( N/A )  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A  
(Location) (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR  
 Certificate of Authorization No. 20 Expiration Date 7/17/92  
 signed RE Donnellon / RSE Quality Control Manager Title Ad. 20 19 91  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Ohio and employed by H.S.B.I. & I. of Hartford, CT. have inspected the components described in this Owner's Report during the period 3-18-91 to 10-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Raymond N. Acord 10-20-91 Commission NB-9557-N.I  
 Inspector's Signature Date National Board State, Province and Endorsements

CERTIFICATE OF CONFORMANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-45B, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 92  
 Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92  
 Date 10-20-91 Signed Toledo Edison Quality Control Mgr.  
 Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT. have inspected the repair, modification or replacement described in this report on 10-20-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-45 and NB-45B, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission \_\_\_\_\_



**FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 14, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
 Address

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. \_\_\_\_\_  
 Address Expiration Date 7/97

4. Identification of System Steam Generator 1-1 Dral. Co. #7

5. (a) Applicable Construction Code MSS SP58  
ANSI B31.1 19 67 Edition Addenda \_\_\_\_\_ Code Case \_\_\_\_\_  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell

6. Identification of Components Required or Replaced and Replacement Components:

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| EBB-5-H34         | Grinnell             | 13813                     | N/A                | C-251                                   | N/A        | Repaired                          | No                            |

7. Description of Work Removed, Rebuilt, Tested and re-installed same snubber.

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) [ ] Continued  
 Pressure N/A psi Nominal Operating Pressure ( ) Other ( )  
 Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A (location)  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR Expiration Date 7/17/92  
 Certificate of Authorization No. 20 Quality Control Manager Date 15 OCT 19 91  
 Signed Robert E. Donahue Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I. have inspected the Hartford, CT.

components described in this Owner's Report during the period 3-28-91 to 10-17-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Michael J. L... 10-17-91 Commissions NB-9800, B.N.I. OHIO COMM.  
 Date National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 92  
 Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92  
 Date 15 19 91 Signed Toledo Edison Quality Control Mgr.  
 Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. COMPANY of Hartford, CT.

inspected the repair, modification or replacement described in this report on 10-17-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



1. Owner Toledo Edison Company Date June 26, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
 Address MVO 1-91 0463-00  
 Repair Organisation P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7/17/92
4. Identification of Systems CTMT Emergency Sump to DH Pump 1  
MSS SP-58
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition No Addenda No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities ITT Grinnell
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| HGR.<br>HCB-1-H4  | Grinnell             | S/N 8017                  | N/A                | A-118                                   | N/A        | Replaced                         | No                            |
|                   | Grinnell             | S/N 8314                  | N/A                | A-118                                   | N/A        | Replacement                      | No                            |

7. Description of Work Replaced failed snubber (9017) with rebuilt snubber (8314).

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other (NA)  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A (location)  
 (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NRCertificate of Authorization No. 20Expiration Date 7/17/92Signed Robert E. Donnellon

Quality Control Manager

Date 28 JUNE 1991

Owner or Owner's Designee, Title

## CERTIFICATE OF INSPECTION

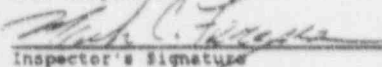
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the

State or Province of Ohioand employed by H.S.B.I. & I.of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 7-16-91 to 7-16-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.


7-16-91  
Date

Commissions

NB-9800 (B.N.I.) Ohio Comm.

National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-012, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_, 19 \_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_

Repair Organization

Authorized Representative

Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ have

inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-012, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions \_\_\_\_\_



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 07/23/91  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-91-0473-00  
Name Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92

4. Identification of Systems Containment Spray  
MSS SP58

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition Addenda Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| GCB-5-H27         | Grinnell             | 16150                     | N/A                | A-110                                   | N/A        | Replace                          | No                            |
| GCB-5-H27         | Grinnell             | 11191                     | N/A                | A-110                                   | N/A        | Replacement                      | No                            |

7. Description of Work Replaced hydraulic snubber 16150 with rebuilt hydraulic snubber 11191.

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other (N/A)  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A  
(Location) (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

conforms to the rules of the ASME Code, Section XI.

repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

Signed Robert E. Donnell  
Owner or Owner's Designee, Title

Quality Control Manager

Date 29 Feb 1999

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 4-4-91 to 7-29-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

12-24-91  
Date

Commissions

NB-9800 (B.N.I.) Ohio Comm.

National Board, State, Province and Endorsement

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section X and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-012, current editions.

Certificate of Authorization No. to use the "XX" stamp expires 19

Certificate of Authorization No. to use the "XX" stamp expires 19

Date 19 Signed

Repair Organisation

Authorized Representative

Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of and employed by

of

have

inspected the repair, modification or replacement described in this report on 19 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 10/10/91  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis Besse Nuclear Power Station Unit #1  
5501 N. SR. 2, Oak Harbor, OH 43449  
Name Address
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR. 2 Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92
4. Identification of Systems LPI TO Recator Vessel Loop #1  
NSF SP58  
ANSI B31.1 19 67 Edition Addenda — Code Case —
5. (a) Applicable Construction Code — 19 67 Edition Addenda — Code Case —  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86  
 (c) Design Responsibilities ITT Grinnell
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT                                     | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|---|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| CCA-6-H5  | Grinnell             | 14205                     | N/A                | C-274                                   | N/A        | Replaced                         | NO                            |
| CCA-6-h5<br><i>Replaced 10/12/91<br/>2nd 12/24/91</i> | Grinnell             | 14204                     | N/A                | C-274                                   | N/A        | Replacement                      | NO                            |

7. Description of Work Replaced hydraulic snubber serial# 14205 with rebuilt hydraulic snubber serial# 14204

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ]
- Pressure N/A psi Test Temp. N/A °F
- Pressure Relief Valve: Service N/A Size N/A
- Opening Pressure N/A Blowdown (if applicable) N/A
- Set Pressure and Blowdown Adjustments made at N/A
- N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NPCertificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donohue Quality Control Manager Date 12-07 1991  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of OHIO and employed by H.S.D. I. & I. Co.  
of Hartford CT. have inspected the

components described in this Owner's Report during the period 4-4-91 to 10-13-91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Michael C. Fagan 10-13-91 Commissions NB-9800 (B.N.I.) OHIO COMM.  
Inspector's Signature Date National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-012, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_, 19 \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_, 19 \_\_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organisation Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and  
certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_  
of \_\_\_\_\_ have  
inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions \_\_\_\_\_



**FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 10/10/91  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis Besse Nuclear Power Station Unit #1  
5501 N. SR. 2, Oak Harbor, OH 43449 MWO# 1-91-0475-00  
Name Address Repair Organisation P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR. 2 Oak Harbor, OH 43449 Authorisation No. 20  
Name Address Expiration Date 7/17/92
4. Identification of Systems LPI to Reactor Vessel Loop #2  
MSS SP58
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition — Addenda — Code Case —  
 (b) Applicable Edition of Section XI Utilised for Repairs or Replacements 19 86  
 (c) Design Responsibilities ITT Grinnell
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| CCA-6-H6          | Grinnell             | 10118                     | N/A                | C-280                                   | N/A        | Replaced                | NO                            |
| CCA-6-H6          | Grinnell             | 9441                      | N/A                | C-280                                   | N/A        | Replacement             | NO                            |

7. Description of Work Replaced hydraulic snubber serial# 10118 with rebuilt hydraulic snubber serial# 9441

( ) Continued

8. Tests Conducted:
 

|  |                                     |                                |           |
|--|-------------------------------------|--------------------------------|-----------|
| Hydrostatic ( )  | Pneumatic ( )                       | Nominal Operating Pressure ( ) | Other ( ) |
| Pressure <u>N/a</u> psi                                  | Test Temp. <u>N/A</u> °F            |                                |           |
| Pressure Relief Valve: Service <u>N/A</u>                | Size <u>N/A</u>                     |                                |           |
| Opening Pressure <u>N/A</u>                              | Slowdown (if applicable) <u>N/A</u> |                                |           |
| Set Pressure and Slowdown Adjustments made at <u>N/A</u> | (location) <u>N/A</u>               |                                |           |
| <u>N/A</u>   | using <u>N/A</u>                    |                                |           |
|  | (Test Medium)                       |                                |           |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI, repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 10 OCT. 1991  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of OHIO and employed by H.S.D. I. & I. Co.  
of Hartford CT. have inspected the  
components described in this Owner's Report during the period 4-91 to 10-10-91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

John C. Ferguson 11-10-91 Commissions NB-9800, OHIO Comm. (B, N, I)  
Inspector's Signature Date National Board, State, Province and Endorsement

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-012, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_ 19 \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_ 19 \_\_\_\_\_

Date \_\_\_\_\_ 19 \_\_\_\_\_ Signed \_\_\_\_\_

Repair Organization

Authorized Representative

Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_  
of \_\_\_\_\_ have  
inspected the repair, modification or replacement described in this report on \_\_\_\_\_ 19 \_\_\_\_\_ and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions \_\_\_\_\_



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 18, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-91-0532-00  
Address Repair Organisation P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 Authorisation No. 20  
Address Expiration Date 7/17/92

4. Identification of System Main Feedwater

MSS SP58

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition — Addenda — Code Case

(b) Applicable Edition of Section XI Utilised for Repairs or Replacements is 86

(c) Design Responsibilities ITT Grinnell

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| EBB-3-SR-24B      | Grinnell             | 12485                     | N/A                | C-180                                   | N/A        | Repaired                | No                            |

7. Description of Work Removed, rebuilt, tested and reinstalled Hydraulic Snubber  
S/N 12485.

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ] N/A  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in.  
 (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturer's Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR  
conforms to the rules of the ASME Code, Section XI.  
repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert S. Donnell Quality Control Manager Date 19 OCT 19 91  
Owner or Owner's Designee, Title

CERTIFICATE OF SERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.  
of Hartford, CT. have inspected the components described in this Owner's Report during the period 4-8-91 to 10-19-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

John L. Fagan 110-19-91 Commissions NB-4200 (B.N.I.) OHIO COMM.  
Inspector's Signature Date National Board, State, Province and Indorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VK" stamp expires Dec. 13 19 92

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92

Date 19 19 91 signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT. have inspected the repair, modification or replacement described in this report on 10-19-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



# FORM HIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 18, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-91-0534-00  
Address Repair Organisation P.O. No., Job No., etc.

3. Work performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Address Expiration Date 7/17/92

4. Identification of Systems Main Feedwater  
MSS SP58

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition — Addenda — Code Case —  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| EBB-3-SR-25B      | Grinnell             | 12851                     | N/A                | C-182                                   | N/A        | Repaired                          | No                            |

7. Description of Work Removed, rebuilt, tested, and reinstalled hydraulic snubber  
S/N 12851.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other ( ) N/A

Pressure N/A psi Test Temp. N/A °F

Pressure Relief Valve: Service N/A Size N/A

Opening Pressure N/A Blowdown (if applicable) N/A

Set Pressure and Blowdown Adjustments made at N/A (location) N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR  
conforms to the rules of the ASME Code, Section XI.  
repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 19 OCT 1991  
Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.  
of Hartford, CT. have inspected the

components described in this Owner's Report during the period 4-2-91 to 10-19-91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Michael C. Foxson 10-19-91 Commissions NR-7800 (B.N.I.) OHIO COMM.  
Inspector's Signature Date National Board, State, Province and Endorsements

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 1992

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 1992

Date 19 Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

### CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State or Province of Ohio and employed by  
H.S.B.I. & I. Company of Hartford, CT have

inspected the repair, modification or replacement described in this report on 19 and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions



**FORM NYS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 14, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-91-0544-00  
Name Address Repair Organisation P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92

4. Identification of System Main Feedwater to Steam Generator 1-2  
MSS SP58

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition        Addenda        Code Case         
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities ITT Grinnell

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO.                    | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO.          | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|--|--------------------|--|------------|-----------------------------------|-------------------------------|
| C-184             | Grinnell             | <del>12489</del> <u>12489</u> <i>RD 11/1</i> | N/A                | EBB-3-SR26B<br><i>10/14/91</i><br><i>11/1/91</i> | N/A        | Repaired                          | No                            |

7. Description of Work Rebuilt and functionally tested snubber 12489.

[ ] Continued

8. Tests Conducted: Hydraulic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ N/A

Pressure N/A psi Test Temp. N/A °F

Pressure Relief Valve: Service N/A Size N/A

Opening Pressure N/A Blowdown (if applicable) N/A

Set Pressure and Blowdown Adjustments made at N/A (location) N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR  
conforms to the rules of the ASME Code, Section XI, repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnell Quality Control Manager Date 16 Oct 19 91  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the  
components described in this Owner's Report during the period 4-9-91 to 10-17-91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Michael J. [Signature] 10-17-91 Commissions NB-2800 (B.N.I.) Ohio Comm.  
Inspector's Signature Date National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 92Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92

Date \_\_\_\_\_, 19 \_\_\_\_ Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and  
certificate of competency issued by the State or Province of Ohio and employed by  
H.S.B.I. & I. Company of Hartford, CT have  
inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-45  
and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions \_\_\_\_\_



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 3, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 1-91-0544-01  
Address Repair Organisation P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name Authorization No. 20  
5501 N. SR 2, Oak Harbor, OH 43449 Expiration Date 7/17/92  
Address

4. Identification of Systems Main Feedwater  
MSS SP58  
 5. (a) Applicable Construction Code ANSI B31.1 19 19 Edition 19 Addenda 19 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility ITT Grinnell

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| EBB-3-SR26C       | Grinnell             | 12490                     | N/A                | DB Tag#C-239                            | N/A        | Repaired                          | No                            |

7. Description of Work Removed Hydraulic Snubber C-239, rebuilt with new seal kit.  
performed functional test and reinstalled on EBB-3-SR26C.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other (X) Functions Test

Pressure N/A psi Test Temp. N/A °F

Pressure Relief Valve: Service N/A Size N/A

Opening Pressure N/A Blowdown (if applicable) N/A

Set Pressure and Blowdown Adjustments made at N/A (location)

N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 14 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

Repair

repair or replacement

conforms to the rules of the ASME Code, Section XI.

Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

*R. S. Miller*

Quality Control Manager

Date 7 OCT 1991

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the

State or Province of Ohio

and employed by H.S.B.I. & I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 4-9-91 to 10-7-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Mark L. Furr*

10-7-91  
Date

Commission

NB-9800 OHIO COMM. (B.N.I.)  
National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-55 and NB-102, current editions.

Certificate of Authorization No. 316

to use the "VR" stamp expires Dec. 13 1992

Certificate of Authorization No. 20

to use the "NR" stamp expires July 17 1992

Date 1991 Signed Toledo Edison  
Repair Organization

Quality Control Mgr.  
Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio

H.S.B.I. & I. COMPANY

of Hartford, CT

have

inspected the repair, modification or replacement described in this report on 10-7-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-55 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



# FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- Owner Toledo Edison Company Date October 15, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address
- Plant Davis-Besse Nuclear Power Station Unit B1  
5501 N. SR 2, Oak Harbor, OH 43449  
Address MWO# 1-91-0544-02  
Repair Organisation P.C. No., Job No., etc.
- Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Address Expiration Date 7/17/92
- Identification of System Main Feedwater to Steam Generator 1-1  
MSS SP58
- (a) Applicable Construction Code ANSI B31.1 1967 Edition Addenda — Code Case —  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
(c) Design Responsibilities ITT Grinnell

## 6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTK & IDENTIFICATION/JURISDICTIONAL NO.        | YEAR BUILT | REPAIRED OR REPLACED | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|--|------------|----------------------|-------------------------------|
| C-240             | Grinnell             | 12491                     | N/A                | EBB-3-SR26D<br><i>RED<br/>MFG<br/>10-17-91</i> | N/A        | Repaired             | No                            |

## 7. Description of Work Rebuilt and functionally tested snubber 12491.

[ ] Continued

- Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other (N/A)  
Pressure N/A psi Test Temp. N/A °F  
Pressure Relief Valve: Service N/A Size N/A  
Opening Pressure N/A Blowdown (if applicable) N/A  
Set Pressure and Blowdown Adjustments made at N/A (location)  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

REPAIR

repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

Signed Robert C. Donahoe

Quality Control Manager

Date 15 Oct 1991

Owner or Owner's Designee, Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 4-9-91 to 10-17-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Date

Commissions

NB-8800 (B.N.I.) OHIO COMM.

National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

NB-102

Certificate of Authorization No. 316

to use the "VR" stamp expires Dec. 13, 1992

Certificate of Authorization No. 20

to use the "NR" stamp expires July 17, 1992

Date 1991 Signed Toledo Edison

Repair Organization

Authorized Representative

Quality Control Mgr.  
Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed by

H.S.B.I. &amp; I. Company

of Hartford, CT.

have

inspected the repair, modification or replacement described in this report on 1991 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



**FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date May 02, 1991  
Name  
300 Madison Ave., Toledo, Ohio 43652 Sheet 1 of 1  
Address
2. Plant Davis Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR.2 Oak Harbor, Ohio 43449 MWO 1-91-0612-00  
Address Repair Organisation P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Co. Type Code Symbol Stamp NR  
Name  
5501 N. SR.2. Oak Harbor, Ohio 43449 Authorization No. 20  
Address Expiration Date July 17, 1992
4. Identification of System Decay Heat Removal
5. (a) Applicable Construction Code \* See Remarks 19 \* Edition \* Addenda \* Code Case  
 (b) Applicable Edition of Section XI Utilised for Repairs or Replacements 19 86  
 (c) Design Responsibilities ITT Grinnell
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT    | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT          | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|----------------------|----------------------|---------------------------|--------------------|---|---------------------|----------------------------------|-------------------------------|
| Hanger<br>GCB-10-H29 | ITT Grinnell         | 9441                      | N/A                | D.B. Tag A-77                           | 1967<br>OR<br>Later | Replaced                         | No                            |

7. Description of Work Removed existing 2½" Grinnell snubber at hanger GCB-10-H29 and replaced it with rebuilt 2½" snubber Serial # 12036.

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ]  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using (location)  
(Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 9. Remarks:

Applicable Manufacturers Data Reports to be attached

\* Construction Code ANSI B31.1 &amp; MSS-SP58 1967 Edition or Later

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
 conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20 Expiration Date July 17, 1992

Signed Robert E. Donnellon QC MANAGER Date MAY 21, 19 91  
 Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
 State or Province of Ohio and employed by HSB I&I Co.

of Hartford, CT have inspected the  
 components described in this Owner's Report during the period 4-12-91 to 5-22-91, and state that to  
 the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
 examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
 this inspection.

Mark C. Ferguson 5-22-91 Commissions NB 9800 (B.N.I.) Ohio  
 Inspector's Signature Date National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
 relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
 in the publications NB-65 and NB-612, current editions.

Certificate of Authorization No. --- to use the "VR" stamp expires ---, 19 ---Certificate of Authorization No. --- to use the "WR" stamp expires ---, 19 ---

Date ---, 19 ---, Signed ---  
 Repair Organisation Authorized Representative Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
 certificate of competency issued by the State or Province of --- and employed by ---

of --- have  
 inspected the repair, modification or replacement described in this report on ---, 19 --- and  
 state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
 accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty,  
 expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
 Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
 arising from or connected with this inspection.

Commissions ---



FORM NIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 29, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Address Sheet 1 of 1

2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 Address  
MWO# 1-91-1205-00  
Repair Organisation P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 Address Authorization No. 20  
Expiration Date 7/17/92

4. Identification of System Reactor Coolant System RC-1773B

5. (a) Applicable Construction Code ASME III 19 71 Edition W/71 Addenda 1540-1/N31.1 Code Case  
(b) Applicable Edition of Section XI Utilised for Repairs or Replacements 19 86  
(c) Design Responsibilities Toledo Edison

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| CTMT DR           | ITT Grinnell         | N/A                       | N/A                | RC-1773B                                | 1975       | Replaced                | yes                           |
| HDR. ISOL VALVE   | ITT Grinnell         | N/A                       | N/A                | RC-1773B                                | 1975       | Repl.                   | Yes                           |

7. Description of Work Replacement of diaphragm for CTMT drain header isolation valve  
RC-1773B.

( ) Continued

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐  
Pressure 30 PSI psi Test Temp. N/A °F  
Pressure Relief Valve: Service N/A Size N/A  
Opening Pressure N/A Blowdown (if applicable) N/A  
Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A (location)  
(Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in.  
(2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

Replacement  
repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

Signed RE Donovan / RLD

Quality Control Manager

Date Oct 29 1991

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 9-20-91 to 10-30-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Raymond N. Acant  
Inspector's Signature

11/10/91  
Date

Commissions

NB-9557-N.I.  
National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

NB-102

Certificate of Authorization No. 316

to use the "VR" stamp expires Dec. 13 1992

Certificate of Authorization No. 20

to use the "NR" stamp expires July 17 1992

Date 19 Signed Toledo Edison  
Repair Organization

Authorized Representative Quality Control Mgr.  
Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT

inspected the repair, modification or replacement described in this report on 10-30-91 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



**FORM WIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 10-29-91  
Name  
300 Madison Ave., Toledo, OH 43652  
Address  
Sheet 1 of 1

2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449  
Address  
MWO# 1-91-1217-00  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449  
Address  
Authorization No. 20  
Expiration Date 7/17/92

4. Identification of System Pressurizer Quench Tank Inlet Isolation Valve

5. (a) Applicable Construction Code ASME III 1971 Edition Winter 1971 Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities ITT Hammel-Dahl/Conoflow

6. Identification of Components Required or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER     | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED, REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|--------------------------|---------------------------|--------------------|---|------------|-----------------------------------|-------------------------------|
| RC-232            | ITT Hammel-Dahl/Conoflow | 72/6089/009               | N/A                | HV-232                                  | 1975       | Repaired                          | Yes                           |

7. Description of Work Installed new valve plug in RC-232

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other N/A  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A (Location)  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this  
conforms to the rules of the ASME Code, Section XI.

Repair  
repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed RE Donnell Quality Control Manager Date Oct 29 19 91  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the  
components described in this Owner's Report during the period 9-20-91 to 10-29-91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Raymond N. Acord 10-29-91 Commissions NB-9557-N.I.  
Inspector's Signature Date National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-43 and NB-43, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 92  
NB-102

Certificate of Authorization No. 20 to use the "RE" stamp expires July 17 19 91

Date 19 Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and  
certificate of competency issued by the State or Province of Ohio and employed by  
H.S.B.I. & I. COMPANY of Hartford, CT

inspected the repair, modification or replacement described in this report on 10-29-91 and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-43  
and NB-43, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions



# FORM NIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date November 7, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449  
Address NO# 1-91-1268-00  
Repair Organisation P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Address Expiration Date 7/17/92
4. Identification of Systems Reactor Coolant System
5. (a) Applicable Construction Code ASME III 1968 Edition S/68 Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility Babcock & Wilcox
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | DATE BUILT | REPAIRED OR REPLACED | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------|-------------------------------|
| Pressurizer       | Babcock & Wilcox     | 620-0014-59               | N-157              | T002                                    | 1972       | Replaced             | Yes                           |
| Pressurizer       | Babcock & Wilcox     | 620-0014-59               | N-157              | T002                                    | 1972       | Replacment           | Yes                           |

7. Description of Work Replaced like for like pressurizer manway stud nut

( ) Continued

8. Tests Conducted:
 

|  |                                     |  |                                |
|--|-------------------------------------|--|--------------------------------|
| Hydrostatic <input checked="" type="checkbox"/>          | Pneumatic <input type="checkbox"/>  | Normal Operating Pressure <input type="checkbox"/> | Other <input type="checkbox"/> |
| Pressure <u>2185</u> psi                                 | Test Temp. <u>448</u> °F            |  |                                |
| Pressure Relief Valve: Service <u>N/A</u>                | Size <u>N/A</u>                     |  |                                |
| Opening Pressure <u>N/A</u>                              | Blowdown (if applicable) <u>N/A</u> |  |                                |
| Set Pressure and Blowdown Adjustments made at <u>N/A</u> | (Location) <u>N/A</u>               |  |                                |
| <u>N/A</u>   | using <u>N/A</u>                    |  |                                |
|  | (Test Medium)                       |  |                                |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks:

Applicable Manufacturers Data Reports to be attached

CONTINUED

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this

Replacement  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed R.E. Boone, Jr. Quality Control Manager Date Nov. 6, 19 91  
Owner or Owner's Designee, Title

CERTIFICATION OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & T.

of Hartford, CT.

inspected the components described in this Owner's Report during the period 9-6-91 to 11-7-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Date 11-7-91 Commission NB 9900 (B.N.I.) OHIO COMM.  
National Board, State, Province and Endorsements

CERTIFICATION OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 19 92

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 19 92

Date       , 19       . Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

CERTIFICATION OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and a certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & T. Company of Hartford, CT.

inspected the repair, modification or replacement described in this report on       , 19 92 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission



00417200220

SHEET 1 OF 1

# FORM N-1A MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only As required by the Provisions of the ASME Code Rules

1. Manufactured by Rock & Wilson, Inc., Chicago, Illinois  
 (Name and address of Manufacturer)

2. Manufactured for Radio Eastern 420 Mill Creek Ave. Toledo, Ohio  
 (Name and address of Purchaser)

3. Type Water Vessel No. 607-11-59 Mod. & No. 11-157 Year Built 1972  
 (Name of Vessel) (Date, Month)

4. Applicable ASME Code Section III, Edition 1968 Addenda 1970-71 Code No. 11-157  
 (Name of Code) (Date of issue)

5. Shell Material SA-516-70 T.S. 80,000 Allow. 16,000 In. Diam. 7 Ft. 0 In. Length 42 Ft. 0 In.  
 (Name & Spec. No.) (Date of issue) (Date of test)

6. Stress Long SA-516-70 T.S. 80,000 X.R. Yes E (factor) 1.0 N  
 (Name of Material) (Date of issue) (Date of test)

7. Head(s) Material SA-516-70 T.S. 80,000 (b) Material SA-516-70 T.S. 80,000  
 (Name of Material) (Date of issue) (Date of test)

| Location<br>(Fig. section, code) | Thickness | Crack<br>Depth | Crack<br>Length | Etched<br>Back | Control<br>Appl. Angle | Nondestructive<br>Examination | Fast<br>Diameter | Safe to Pressure<br>(Source or Comment) |
|----------------------------------|-----------|----------------|-----------------|----------------|------------------------|-------------------------------|------------------|---|
| (a) TCP                          | 1 1/4"    |                |                 |                |                        | 11-5/8"                       |                  | CONCERN                                 |
| (b) W.R.                         | 1 1/4"    |                |                 |                |                        | 11-5/8"                       |                  | CONCERN                                 |

8. If removable, bolts used SA-516-70 T.S. 80,000 X.R. Yes E (factor) 1.0 N  
 (Name of Material) (Date of issue) (Date of test)

9. Design pressure 1500 psi at 100 °F. or temp. of 100 °F.  
 (Name of Code) (Date of issue) (Date of test)

10. Safety or Relief Valve Outlet: Number 1 Size 1/2" Location Top  
 (Name of Code) (Date of issue) (Date of test)

11. No. of test: 1  
 Purpose (Date, Outlet, Break) 1000 PSI, 1000 PSI, 1000 PSI Number 1 Size 1/2" Type Shell Material SA-516-70 Thickness 1 1/4" In. 100 °F. 100 °F.  
 (Name of Code) (Date of issue) (Date of test)

12. Inspection Manholes, No. 1 Size 1/2" Location Top  
 Openings: Handholes, No. 1 Size 1/2" Location Top  
 Header Openings, No. 1 Size 1/2" Location Top

13. Supports: Skirt 1 Legs 1 Other 1 Assembled 1 (Name & No.)

14. Remarks: (a) 1000 PSI, 1000 PSI, 1000 PSI  
(b) 1000 PSI, 1000 PSI, 1000 PSI  
(c) 1000 PSI, 1000 PSI, 1000 PSI

CONTROL COPY

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE TRUE AND THAT THE VESSEL CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE, SECTION III.

Date 5-8-73 By James H. H. H. Chief Service Engineer

Certificate of Authorization Expires 5-8-73

## CERTIFICATION OF DESIGN

Design information on file at Rock & Wilson, Inc., Chicago, Illinois  
 Design analysis report on file at Rock & Wilson, Inc., Chicago, Illinois  
 Design specifications certified by Rock & Wilson, Inc., Chicago, Illinois  
 Design analysis report certified by Rock & Wilson, Inc., Chicago, Illinois

## CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Rock & Wilson, Inc., Chicago, Illinois  
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, do hereby certify that I have inspected the pressure vessel described in the manufacturer's data report on 5-8-73 and state that to the best of my knowledge and belief the manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be held liable for any personal injury or property damage in a suit or action arising from or connected with this inspection.

Date 5-8-73 Inspector James H. H. H. Chief Service Engineer

7749-M-507-13



As prescribed by the provisions of the ASME Code, under

Year Built 1978

2000-2001

3) Three heater bundles scheduled were not scheduled with prep. writer. They will be



**FORM NIS-2/NR-1/MVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 29, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449  
Address MNO# 1-91-1274-00  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Address Expiration Date 7/17/92

4. Identification of Systems Main Steam

5. (a) Applicable Construction Code MSS SP58  
ANSI B31.1 1967 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities Lisege

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| EBB-1-SR4         | Lisege               | 61233/40                  | N/A                | C-225                                   | N/A        | Replaced                | No                            |
| EBB-1-SR4         | Lisege               | 61252/40                  | N/A                | C-225                                   | N/A        | Repl.                   | No                            |

7. Description of Work Replaced Lisege snubber #61233/40 with Lisege snubber #61252/40

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ]  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A Test Medium:

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



8. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement conform to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed RE Donnell/RXD Quality Control Manager Date Oct 27 19 91  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the components described in this Owner's Report during the period 9-27-91 to 10-2-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Raymond N. Acant Date 10-2-91 Commissions NB-9557-N, I, Z  
National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 92

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 91

Date        19        Signed Toledo Edison Quality Control Manager  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT inspected the repair, modification or replacement described in this report on        19        and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



FORM NIS-2/NR-1/NVE ' OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 10/22/90  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 2-90-0013-14  
Name Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92
4. Identification of System Main Steam System
5. (a) Applicable Construction Code ASME B31-1 1967 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility Toledo Edison / Lisege
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACED | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------|-------------------------------|
| EBB-1-SRB         | Grinnell             | 12448                     | N/A                | C-175                                   | N/A        | Replaced             | No                            |
| EBB-1-SRB         | Lisege               | 61237/31                  | N/A                | C-175                                   | N/A        | Replacement          | No                            |

7. Description of Work Removed Grinnell hydraulic snubber serial # 12448 and installed a Lisege hydraulic snubber serial # 61237/31.

( ) Continued

8. Tests Conducted:
 

|  |                                     |                                |           |
|--|-------------------------------------|--------------------------------|-----------|
| Hydrostatic ( )  | Pneumatic ( )                       | Nominal Operating Pressure ( ) | Other ( ) |
| Pressure <u>N/A</u> psi                                  | Test Temp. <u>N/A</u> °F            |                                |           |
| Pressure Relief Valve: Service <u>N/A</u>                | Size <u>N/A</u>                     |                                |           |
| Opening Pressure <u>N/A</u>                              | Blowdown (if applicable) <u>N/A</u> |                                |           |
| Set Pressure and Blowdown Adjustments made at <u>N/A</u> | Location: <u>N/A</u>                |                                |           |
| <u>N/A</u>   | using <u>N/A</u>                    |                                |           |
|  | (Test Medium)                       |                                |           |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed Robert E. Donnellon Quality Control Manager Date 22 OCT 1991  
Owner or Owner's Designee, Title

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the components described in this Owner's Report during the period 8-20-91 to 10-31-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither I as Inspector nor my employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Mark C. Lisan  
Inspector's Signature

11/03/91  
Date

Commission

NB-9800, (BNI) OHIO COM.  
National Board, State, Province and Endorsements

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 1992

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 1992

Date 10 Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

### CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT

inspected the repair, modification or replacement described in this report on 10-31-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-45 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commission



FORM HIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 22, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MNO 2-90-0019-01  
Name Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code / Label Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92

4. Identification of System Containment Vacuum Relief Isolation

5. (a) Applicable Construction Code ASME III 1971 Edition W22 Addenda None Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility Toledo Edison

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACED | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------|-------------------------------|
| CV 5070           | Valtec               | 77385.001.1               | N/A                | CV 5070                                 | 1991       | Replacement          | Yes                           |

7. Description of Work Removed blind flange from penetration OA that was installed by  
TM 90-0019 and installed new butterfly control valve.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other (x) Functional

Pressure 38 psi Test Temp. AMB °F

Pressure Relief Valve: Service N/A Size N/A

Opening Pressure N/A Bleeddown (if applicable) N/A

Set Pressure and Bleeddown Adjustments made at N/A (location) N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in.  
 (2) Information in items 1 through 4 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI, repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed R. C. Quinn / R. C. Quinn Quality Control Manager Date Oct 30 19 91  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.  
of Hartford, CT. have inspected the

components described in this Owner's Report during the period 9/3/91 to 10/30/91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Raymond N. Acord 10/30/91 Commission NB-9557-N.I.  
Inspector's Signature Date National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 92

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92

Date 10/30/91 Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and  
certificate of competency issued by the State or Province of Ohio and employed by  
H.S.B.I. & I. COMPANY of Hartford, CT have  
inspected the repair, modification or replacement described in this report on 10/30/91 and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-45  
and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commission



FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES  
(As Required by the Provisions of the ASME Code, Section IB, Div. 1)

1. Manufactured by VALTEK INC., Mtn. Springs Pkwy., Springville, VT 84667  
(Name and Address of Manufacturer)

2. Manufactured for Toledo Edison, Oak Harbor, Ohio.  
(Name and Address of Purchaser or Owner)

3. Location of Installation Davis Besse Nuclear Power Station, 5501 N. State Rt 2 Oak Harbor OH  
(Name and Address)

4. Pump or Valve Control Valve Nominal Inlet Size 8 inch Outlet Size 8 inch 434  
(Inch) (Inch)

| (a) Model No.<br>Series No.<br>or Type | (b) Manufacturers<br>Serial<br>No. | (c) Canadian<br>Registration<br>No. | (d) Drawing<br>No. | (e) Class | (f) Nat'l.<br>Std. No. | (g) Year<br>Built |
|--|------------------------------------|-------------------------------------|--------------------|-----------|------------------------|-------------------|
| (1) <u>Valdisk</u>                     | <u>77385.001.1</u>                 |                                     | <u>A77385.001</u>  | <u>2</u>  | <u>N/A</u>             | <u>1991</u>       |
| (2)                                    |                                    |                                     | <u>Rev 2</u>       |           |                        |                   |
| (3)                                    |                                    |                                     |                    |           |                        |                   |
| (4)                                    |                                    |                                     |                    |           |                        |                   |
| (5)                                    |                                    |                                     |                    |           |                        |                   |
| (6)                                    |                                    |                                     |                    |           |                        |                   |
| (7)                                    |                                    |                                     |                    |           |                        |                   |
| (8)                                    |                                    |                                     |                    |           |                        |                   |
| (9)                                    |                                    |                                     |                    |           |                        |                   |
| (10)                                   |                                    |                                     |                    |           |                        |                   |

5. Isolation Service

(Brief description of service for which equipment was designed)

6. Design Conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or Valve Pressure Class CL 150 (1)

7. Cold Working Pressure 450 psi at 100°F

8. Pressure Retaining Pieces

| Mark No.      | Material Spec. No. | Manufacturer            | Remarks    |
|---------------|--------------------|-------------------------|------------|
| (a) Castings  |                    |                         | Heat Code  |
| <u>V11801</u> | <u>SA-216-WCB</u>  | <u>American Foundry</u> | <u>LOE</u> |
| <u>V11795</u> | <u>SA-351-CF8M</u> | <u>American Foundry</u> | <u>LOE</u> |
|               |                    |                         |            |
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| (b) Forgings  |                    |                         |            |
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(1) For manually operated valves only.

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered, and number of sheets is recorded at top of this form.







**FORM NIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 20, 1991  
Name  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
Name  
5501 N. SR 2, Oak Harbor, OH 43449 MNO 2-90-0019-02  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
Name Authorization No. 20  
5501 N. SR 2, Oak Harbor, OH 43449 Expiration Date 7/17/92  
Address

4. Identification of System Containment Vacuum Relief Isolation

5. (a) Applicable Construction Code ASME III 19 71 Edition W72 Addenda None Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibility Toledo Edison

6. Identification of Components Required or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| CV 5074           | Valtek               | 77385.001.2               | N/A                | CV 5074                                 | 1991       | Replacement                      | Yes                           |

7. Description of Work Removed blind flange from penetration 8E that was installed by  
TM 90-0019 and installed new butterfly control valve.

( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other (X) Functional

Pressure 38 psi Test Temp. AMB °F

Pressure Relief Valve: Service N/A Size N/A

Opening Pressure N/A Blowdown (if applicable) N/A

Set Pressure and Blowdown Adjustments made at N/A (Location) N/A

N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8 1/2" x 11" (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



1. Remarks: Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI.  
repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed R. J. Connelley, Jr. Quality Control Manager Date Oct. 30, 1991  
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT. have inspected the  
components described in this Owner's Report during the period 9-3-91 to 10-2-91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

R. J. Connelley, Jr. 10/30/91 Commission NR-9557-N.I.  
Inspector's Signature Date National Board, State, Province and Endorsements

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-45 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 1992

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 1992

Date 10/30/91 Signed Toledo Edison Quality Control Mgr.  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State or Province of Ohio and employed by  
H.S.B.I. & I. Company of Hartford, CT have  
inspected the repair, modification or replacement described in this report on 10/30/91 and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-45  
and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commission



FORM NPV-1 NAME PLATE DATA REPORT FOR NUCLEAR PUMPS OR VALVES  
(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by VALTEK INC., Mtn. Springs Pkwy., Springville, UT 84663  
(Name and Address of Manufacturer)  
2. Manufactured for Toledo Edison, Oak Harbor, Ohio  
(Name and Address of Purchaser or Owner)  
3. Location of Installation Davis Besse Nuclear Power Station, 5501 N. State, Rt. 2, Oak Har  
(Name and Address)  
4. Pump or Valve Control Valve Nominal Inlet Size 8 inch Outlet Size 8 inch  
(Inch) (Inch)

| (a) Model No.<br>Serial No.<br>or Type | (b) Manufacturers<br>Serial No. | (c) Canadian<br>Registration<br>No. | (d) Drawing<br>No. | (e) Class | (f) Nat'l.<br>Std. No. | (g) Year<br>B. I. |
|--|---------------------------------|-------------------------------------|--------------------|-----------|------------------------|-------------------|
| (1) <u>Valdisk</u>                     | <u>77385.001.2</u>              | <u>N/A</u>                          | <u>A77385.001</u>  | <u>2</u>  | <u>N/A</u>             | <u>1991</u>       |
| (2)                                    |                                 |                                     | <u>rev. 2</u>      |           |                        |                   |
| (3)                                    |                                 |                                     |                    |           |                        |                   |
| (4)                                    |                                 |                                     |                    |           |                        |                   |
| (5)                                    |                                 |                                     |                    |           |                        |                   |
| (6)                                    |                                 |                                     |                    |           |                        |                   |
| (7)                                    |                                 |                                     |                    |           |                        |                   |
| (8)                                    |                                 |                                     |                    |           |                        |                   |
| (9)                                    |                                 |                                     |                    |           |                        |                   |
| (10)                                   |                                 |                                     |                    |           |                        |                   |

5. ISOLATION SERVICE

(Brief description of service for which equipment was designed)

6. Design Conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or Valve Pressure Class 150 (1)  
(Pressure) (Temperature)  
7. Cold Working Pressure 450 psi at 100°F.  
8. Pressure Retaining Pieces

| Mark No.      | Material Spec. No. | Manufacturer            | Remarks    |
|---------------|--------------------|-------------------------|------------|
| (a) Castings  |                    |                         | HEAT CODE  |
| <u>V11804</u> | <u>SA 216-WCB</u>  | <u>American Foundry</u> | <u>LTN</u> |
| <u>V11796</u> | <u>SA 35-CF8M</u>  | <u>American Foundry</u> | <u>LOG</u> |
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| (b) Forgings  |                    |                         |            |
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(1) For manually operated valves only.

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet and (3) each sheet is numbered and number of sheets is recorded at top of the form.

(13/77)

This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017



Commissions Ut. 91 Ohio Comm  
(Nat. B. S. S. Prev. and No.)



**FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date January 15, 1992  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2  
Name Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 2-90-0079-03  
Name Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92
4. Identification of Systems Pressurizer Spray Line (064-04)  
MSS SP58
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Responsibilities ITT Grinnell/Lisega/Toledo Edison
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (Y/N OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|-------------------------|-------------------------------|
| PS-H12            | Grinnell             | 13268                     | N/A                | DB Tag# C-198                           | N/A        | Replaced                | No                            |
| PS-H15            | Grinnell             | 13290                     | N/A                | DB Tag# C-201                           | N/A        | Replaced                | No                            |
| PS-H20            | Grinnell             | 16800                     | N/A                | DB Tag# C-161                           | N/A        | Replaced                | No                            |
| PS-H21            | Grinnell             | 13273                     | N/A                | DB Tag# C-162                           | N/A        | Replaced                | No                            |
| PS-H27            | Grinnell             | 17599                     | N/A                | DB Tag# C-139                           | N/A        | Replaced                | No                            |
| PS-H29            | Grinnell             | 15489                     | N/A                | DB Tag# C-141                           | N/A        | Replaced                | No                            |
| PS-H31            | Grinnell             | 13270                     | N/A                | DB Tag# C-143                           | N/A        | Replaced                | No                            |
| PS-H34            | Grinnell             | 13294                     | N/A                | DB Tag# C-146                           | N/A        | Replaced                | No                            |
| PS-H36 (x)        | Grinnell             | 13595                     | N/A                | DB Tag# C-144                           | N/A        | Replaced                | No                            |

7. Description of Work See Page 2
- ( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other ( )
- Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F
- Pressure Relief Valve: Service \_\_\_\_\_ Size \_\_\_\_\_
- Opening Pressure \_\_\_\_\_ Blowdown (if applicable) \_\_\_\_\_
- Set Pressure and Blowdown Adjustments made at \_\_\_\_\_ (location) \_\_\_\_\_
- using \_\_\_\_\_ (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NB-2/BB-1/BB-1 (BACK)

9. Remarks: N/A  
Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed RE Dannelon / RLD Quality Control Mgr. Date Jan 15 19 92  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by M.S.B.I. & I.  
of Hartford, CT. have inspected the

components described in this Owner's Report during the period 9-30-91 to 1-15-92, and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Inspector's Signature [Signature] Date 1-15-92 Commissions NB-9800 OH, COMM (B.N.I.)  
National Board, State, Province and Endorsement

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_ 19 \_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_ 19 \_\_\_\_

Date \_\_\_\_\_ 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_  
of \_\_\_\_\_ have inspected the repair, modification or replacement described in this report on \_\_\_\_\_ 19 \_\_\_\_  
and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed  
in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications  
NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions \_\_\_\_\_



**FORM NIS-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date January 15, 1992  
300 Madison Ave., Toledo, OH 43652 Sheet 2 of 2  
 Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 2-90-0079-03  
 Address Repair Organization F.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7/17/92
4. Identification of Systems Pressurizer Spray Line (064-04)  
MSS SP58
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition N/A Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilised for Repairs or Replacements is 86  
 (c) Design Responsibilities ITT Grinnell/Lisege/Toledo Edison
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| PS-H12            | Lisege               | 6121950                   | N/A                | DB Tag# C-198                           | N/A        | Repl.                            | No                            |
| PS-H15            | Lisege               | 6125401                   | N/A                | DB Tag# C-201                           | N/A        | Repl.                            | No                            |
| PS-H20            | Lisege               | 6121948                   | N/A                | DB Tag# C-161                           | N/A        | Repl.                            | No                            |
| PS-H21            | Lisege               | 6121949                   | N/A                | DB Tag# C-162                           | N/A        | Repl.                            | No                            |
| PS-H27            | Lisege               | 6121953                   | N/A                | DB Tag# C-139                           | N/A        | Repl.                            | No                            |
| PS-H29            | Lisege               | 6121951                   | N/A                | DB Tag# C-141                           | N/A        | Repl.                            | No                            |
| PS-H31            | Lisege               | 6121952                   | N/A                | DB Tag# C-143                           | N/A        | Repl.                            | No                            |
| PS-H34            | Lisege               | 6121947                   | N/A                | DB Tag# C-146                           | N/A        | Repl.                            | No                            |
| PS-H36 (x)        | Lisege               | 6121944                   | N/A                | DB Tag# C-144                           | N/A        | Repl.                            | No                            |

7. Description of Work Modification consisted of replacement of snubbers (Grinnell) installed on pressurizer Spray Line with Snubber Manufactured by Lisege.

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ]  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A  
N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: N/A  
Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement  
conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/17/92

Signed R.E. Donnell 1/15 Quality Control Mgr. Date 1/15 19 92  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.  
of Hartford, CT. have inspected the

components described in this Owner's Report during the period 9-30-91 to 1-15-92, and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

[Signature] 1-15-92 Commissions NB-9800, OHIO COMM. (B.N.I.)  
Inspector's Signature Date National Board, State, Province and Endorsement

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. \_\_\_\_\_ to use the "VR" stamp expires \_\_\_\_\_, 19 \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ to use the "NR" stamp expires \_\_\_\_\_, 19 \_\_\_\_\_

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State or Province of \_\_\_\_\_ and employed  
of \_\_\_\_\_ have  
inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed  
in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions \_\_\_\_\_



**FORM NIS-2/NR-1/NVE-1 Owner's REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 23, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
Name Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449  
Name Address MWO# 2-90-0079-05  
 Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
Name Address Expiration Date 7/17/92

4. Identification of System Pressurizer spray line  
MSS SP58

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition --- Addenda --- Code Case ---  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986  
 (c) Design Responsibilities Lisege

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| C-190             | Grinnell             | 13262                     | N/A                | PSP-1-H3                                | N/A        | Replace                          | No                            |
| C-159             | Grinnell             | 13260                     | N/A                | PSP-1-H17                               | N/A        | Replace                          | No                            |
| C-190             | Lisege               | 61219/60                  | N/A                | PSP-1-H3                                | N/A        | Replacmnt                        | No                            |
| C-159             | Lisege               | 61219/59                  | N/A                | PSP-1-H17                               | N/A        | Replacmnt                        | No                            |

7. Description of Work Replaced hydraulic snubber 13262 with new Lisege snubber 61219/60  
replaced hydraulic snubber 13260 with new Lisege snubber 61219/59.

[ ] Continued

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ] N/A  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A (location) N/A  
N/A using N/A (Test Method)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks:

Applicable Manufacturers Data Reports to be attached

CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this

conform to the rules of the ASME Code, Section XI.

Replacement  
repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20Expiration Date 7/17/92Signed R.C. Ronnellan RTH  
Owner or Owner's Designee, Title

Quality Control Manager

Date Oct 24 19 91

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 10-12-91 to 10-24-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

10-24-91  
Date

Commissions

NB-9800 (BNI) OHIO COMM.  
National Board, State, Province and Inspectors

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. NB-102 316to use the "VR" stamp expires Dec. 13Certificate of Authorization No. 20to use the "NR" stamp expires July 17

Date 19 Signed Toledo Edison  
Repair Organization

Authorized Representative

Quality Control

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and a certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company of Hartford, CT.

inspected the repair, modification or replacement described in this report on 10-24-91 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or taken in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions



FORM N1a-2/NR-1/NVE-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date October 25, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address

2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 2-90-0079-06  
 Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7/17/92

4. Identification of Systems Reactor Coolant System  
MSS SP58

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition Addenda Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 86  
 (c) Design Response, Title Grinnell/Lisege

6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR OF OUTLET | REPAIRED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|----------------|-------------------------|-------------------------------|
| PSP-1-H36z        | Grinnell             | 21305                     | N/A                | C-147                                   | N/A            | Replaced                | No                            |
| PSP-1-H36z        | Lisege               | 61219/55                  | N/A                | C-147                                   | N/A            | Repl.                   | No                            |
| PSP-1-H37z        | Grinnell             | 30224                     | N/A                | C-148                                   | N/A            | Replaced                | No                            |
| PSP-1-H37z        | Lisege               | 61219/43                  | N/A                | C-148                                   | N/A            | Repl.                   | No                            |
| PSP-1-H37x        | Grinnell             | 13269                     | N/A                | C-149                                   | N/A            | Replaced                | No                            |
| PSP-1-H37x        | Lisege               | 61219/54                  | N/A                | C-149                                   | N/A            | Repl.                   | No                            |

7. Description of Work Removed existing Grinnell snubbers S/N 21305, 30224, and 13269.  
Installed new lisege snubbers S/N 61219/55, 61219/43 and 61219/54.

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure ( ) Other ( )  
 Pressure N/A psi Test Temp. N/A °F  
 Pressure Relief Valve: Service N/A Size N/A  
 Opening Pressure N/A Blowdown (if applicable) N/A  
 Set Pressure and Blowdown Adjustments made at N/A (location)  
N/A using N/A (Test Media)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## 9. Remarks:

Applicable Manufacturers Data Reports to be attached

( ) CONTINUED

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this \_\_\_\_\_  
conforms to the rules of the ASME Code, Section XI.

Replacement  
repair or replacement

Type Code Symbol Stamp NRCertificate of Authorization No. 20Expiration Date 7/17/92

Signed RE Donnellan / RLD Quality Control Manager Date Oct. 25 19 91  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.

of Hartford, CT.

have inspected the

components described in this Owner's Report during the period 10-13-91 to 10-25-91 and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

[Signature]  
Inspector's Signature

110-25-91  
Date

Commissions

NB-9800, (B.N.I.) OHIO COMM.  
National Board, State, Province and Endorsements

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-102, current editions.

NB-102

Certificate of Authorization No. 316to use the "VR" stamp expires Dec. 13 19 92Certificate of Authorization No. 20to use the "NR" stamp expires July 17 19 92

Date \_\_\_\_\_, 19 \_\_\_\_ Signed Toledo Edison  
Repair Organization

Authorized Representative

Quality Control Mgr.  
Title

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and  
certificate of competency issued by the State or Province of Ohio and employed by H.S.B.I. & I. Company

of Hartford, CT

inspected the repair, modification or replacement described in this report on \_\_\_\_\_ and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65  
and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions



**FORM NIS-2/NR-1/NVR-1 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date December 16, 1991  
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 1  
 Address
2. Plant Davis-Besse Nuclear Power Station Unit #1  
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 7-90-0695-01  
 Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR  
5501 N. SR 2, Oak Harbor, OH 43449 Authorization No. 20  
 Address Expiration Date 7/17/92
4. Identification of System High Pressure Injection Isolation Valve 2 1/2" CCB=2 CL-2
5. (a) Applicable Construction Code Draft/Pump&Vlv 19 68 Edition No Addenda No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86  
 (c) Design Responsibilities Velan Engineering Company
6. Identification of Components Repaired or Replaced and Replacement Components

| NAME OF COMPONENT | NAME OF MANUFACTURER | MANUFACTURER'S SERIAL NO. | NATIONAL BOARD NO. | OTHER IDENTIFICATION/JURISDICTIONAL NO. | YEAR BUILT | REPAIRED REPLACED OR REPLACEMENT | ASME CODE STAMPED (YES OR NO) |
|-------------------|----------------------|---------------------------|--------------------|---|------------|----------------------------------|-------------------------------|
| Disc              | Velan                | T5311                     | N/A                | HP 2 B                                  | 1973       | Replaced                         | No                            |
| Disc              | Velan                | SN 4095                   | N/A                | HP 2 B                                  | 1991       | Repl.                            | No                            |

7. Description of Work Valve was disassembled and refurbished with a new disc.
- ( ) Continued

8. Tests Conducted: Hydrostatic ( ) Pneumatic ( ) Nominal Operating Pressure (X) Other (X)
- Pressure 2675 psi Test Temp. N/A °F
- Pressure Relief Valve: Service N/A Size N/A
- Opening Pressure N/A Blowdown (if applicable) N/A
- Set Pressure and Blowdown Adjustments made at N/A (location) N/A using N/A (Test Medium)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



9. Remarks: Not required  
Applicable Manufacturers Data Reports to be attached

[ ] CONTINUED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
conforms to the rules of the ASME Code, Section XI.  
repair or replacement

Type Code Symbol Stamp NR  
Certificate of Authorization No. 20 Expiration Date 7/17/92  
Signed Robert E. Donnell Quality Control Mgr. Date 18 DEC 1991  
Owner or Owner's Designer, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of Ohio and employed by H.S.B.I. & I.  
of Hartford, CT. have inspected the  
components described in this Owner's Report during the period 2-6-91 to 12-18-91, and state that to  
the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Inspector's Signature [Signature] Date 12-18-91 Commissions NB-9800, OHIO COMM. (B.N.I.)  
National Board, State, Province and Endorsement:

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure  
relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined  
in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 19 92  
Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 19 92  
Date \_\_\_\_\_, 19 \_\_\_\_ Signed Toledo Edison  
Repair Organization Authorized Representative Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and  
certificate of competency issued by the State or Province of Ohio and employed by  
H.S.B.I. & I. of Hartford, CT have  
inspected the repair, modification or replacement described in this report on \_\_\_\_\_, 19 \_\_\_\_ and  
state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in  
accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65  
and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty,  
expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the  
Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind  
arising from or connected with this inspection.

Commissions \_\_\_\_\_



FORM NR-1 REPORT OF REPAIR ☐ MODIFICATION ☒ OR INSTALLATION OF REPLACEMENT(S) ☐  
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Toledo Edison Company (name) DCR 91-0036  
PCAQ 90-0695 (repair organization's P.O. no., job no., etc.)  
5501 N. State Rt. 2, Oak Harbor, Ohio 43449 (address)
2. Owner Toledo Edison Company (name)  
300 Madison Ave., Toledo, Ohio 43652 (address)
3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Power Station Unit 1  
5501 N. State Rt. 2, Oak Harbor, Ohio 43449
4. Identification of system High Pressure Injection/Make-up
5. a: Identification of component HEAVY modified ~~XXXXXXXX~~ Piping Spools # CCB-2 & 14  
b: Name of manufacturer ITT Grinnell  
c: Identifying nos. 13-331 & 15-233C TE 13 & 15 N/A CCB-2 & 14 1977  
(MFR's serial no.) (Nat'l. Bd. no.) (jurisdictional #) (other) (year built)
6. Applicable section(s) III of ASME Code, 19 71 edition NO addenda NO Code Case NO
7. Design responsibilities Toledo Edison Company
8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure N/A psi.
9. Description of work Re-rated the piping from valves HP22 & 23 to HP2A,B,C&D at 2600 PSIG/200°F  
(use of additional sheets or sketches is attached - properly identified)  
Re-rate the piping from valves HP2A,B,C&D to HP 48,49&57 at 2500 PSIG/650°F
10. Remarks: Re-rate the piping from 2000 PSIG/260°F to 2600 PSIG/200°F between HP 22 & HP 23 to HP 2A,B,C & D.  
Re-rated the piping from 2000 PSIG/260°F to 2500 PSIG/650°F between valves HP2A,B,C & D to HP48,49 & 57.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all design, material and workmanship on this modification conforms to the applicable section of the ASME Code (repair, modification or replacement).  
Certificate of Authorization no. 20 to use the "NR" stamp expires 7-17 19 92  
Signed Toledo Edison Company Robert S. Donnell Quality Control Manager 12/17 19 91  
(repair organization) (authorized representative) (title) (date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHIO and employed by H.S.B.I. & I. Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 12-18 19 91 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12-18 19 91 Signed Michael C. Logan Commissions OHIO COMM. NB 9800 (N.B. 1000)  
(authorized inspector) (Nat'l. Bd. no. including endorsement; state or province and number)



POTENTIAL CONDITION  
ADVERSE TO QUALITY REPORT CONTINUATION SHEET  
ED 7632E-1

PCAOR NO

90-0695

PAGE

2 OF 2  
FF FF

CONTINUATION

PART

ITEM

5

F

The Authorized Nuclear Inspector has raised a concern regarding Toledo Edison's intent not to perform pressure testing in association with re-rating the HPI/MV piping. The basis for performing no pressure testing is as follows:

- 1) The original construction hydrostatic tests for this piping met the Section III requirements for piping rated at the new temperature and pressure.
- 2) The hydrostatic tests performed following replacement of portions of this piping (per MWQ's 2-86-0432-06, 2-86-0432-27, 2-86-0432-45 and 2-89-0066-01) met the Section XI requirements for piping rated at the new temperature and pressure.

Francis A. Tucki

J. Hartigan 11/14/91

ART 2-1-91 12/3/91



Following his review of Toledo Edison's basis for performing no pressure testing in association with re-rating the HPI/MU piping, the Authorized Nuclear Inspector requested the following:

1. Provide the basis for concluding that the earlier testing met the Section III and Section XI requirements for piping rated at the new temperature and pressure.
2. Provide information on the corrective action document which addresses discrepancies between Drawing M-602 and Specification M-200. (This discrepancy led to the use of the higher test pressure when portions of the HPI/MU piping were replaced.)
3. Provide a justification why no corrective action document will be generated to address performance of the original construction hydrostatic tests at a pressure higher than specified in ASME Section III for the original design temperature and pressure.
4. If the original Section III hydrostatic test pressure exceeded the maximum test pressure specified in NB-6222, perform the stress intensity analysis specified in NB-6222 to ensure no components were overstressed.

Response:

- 1(a) The basis for concluding that the testing of the piping replaced via FCR 86-0432 (MWO's 2-86-0432-06, 2-86-0432-27 and 2-86-0432-45) and FCR 89-0066 (MWO 2-89-0066-01) met the Section XI requirements for piping rated at the new temperature and pressure is as follows:

All piping replaced is in the section of piping being re-rated to 2500 psig/650°F. Per IWC-52222(a) the test pressure is to be 1.25 times the design pressure when the design temperature is above 200°F.

$$P = 2500 (1.25) = 3125 \text{ psig}$$

The pressure tests for FCR 86-0432 and FCR 89-0066 both were performed at 3125 psig.

It is noted that the tests were performed at this pressure because of a discrepancy between Drawing M-602 and Specification M-200. As discussed below, a PCAQ has been generated to generically address discrepancies between Drawing M-602 and Specification M-200.

- 1(b) The basis for concluding that the original construction hydrostatic tests for this piping met the Section III requirements for piping rated at the new temperature and pressure is as follows:



specified minimum hydrostatic test pressure of 1.25 times the design pressure multiplied by the lowest ratio of the permissible stress values at the test temperature to the permissible stress values at the design temperature. For the piping system considered,

$$1. \text{ Temperature} = 18.8 \text{ ksi}$$

$$2. \text{ Temperature} = 18.8 \text{ ksi}$$

$$3. \text{ Temperature} = 18.8 \text{ ksi}$$

re-rat' to 2500 psi/650°F

$$P = (2500) (18.8/16.7) = 3518 \text{ psig}$$

re-rated to 2600 psi/200°F

$$P = (1.25) (2600) (18.8/18.8) = 3250 \text{ psig}$$

The original construction hydrostatic tests were performed at 3329 psig for Train 1 and 3812 psig for Train 2. Both of these test pressures exceed the minimum test pressure for either of the new ratings.

2. PCAQR 91-0575 has been generated to address discrepancies between Drawing M-602 and Specification H-200. The specific corrective action for PCAQR 91-0575 has not yet been determined.
3. No corrective action document will be generated to address performance of the original construction hydrostatic at a pressure higher than specified in ASME Section III for the original design temperature and pressure because it is felt no useful information can be gained by processing such a document. First, due to the amount of time which has passed since these tests were performed, determination of the root cause would be speculative.

Secondly, investigation of potential overstressing of components as a result of testing at these pressures has determined that no piping was overstressed as discussed below. Finally, it is felt that no meaningful corrective action could be pursued beyond that performed for this PCAQR and for PCAQR 91-0575.

4. The original hydrostatic test pressure did exceed the maximum test pressure specified in NB-6222. Analyses have been performed which demonstrate that no components were overstressed. Refer to Calculation C-NE-65.01-108 and the analysis shown on page 11d of this PCAQ.

FT/kv

*Frank A. Tuzi*  
*Refinal 12/12/91*  
*ANTI R/W M.C. Forger 1/1/92*



PART

ITEM

CONTINUATION

DUE TO THE RE-RATING OF THE PRESSURE FOR THE  
HPI PIPING, A CHECK OF THE ACTUAL HYDRO  
PRESSURE MUST BE DONE. THE MAXIMUM PERMISSIBLE  
HYDRO PRESSURE IS LIMITED TO 6% ABOVE THE  
MINIMUM AS CALCULATED BY THE ASME CODE

(NB-6221) <sup>(SEE SHEET 10)</sup> THE ACTUAL HYDRO PRESSURE ON

THIS PIPING IS: TRAIN 1 = 3889 PSI

TRAIN 2 = 3812 PSI

} BOTH EXCEED  
6% LIMIT

THE STRESS PROBLEMS THAT EVALUATE THE PIPING

IDENTIFIED ARE: 53, 54, 56A, 56B, T-003-1b,

T-003-2b, T-004-1b AND T-004-2b.

FROM A REVIEW OF THE CALCS THE MAXIMUM BENDING  
STRESS DUE TO PRIMARY LOADS IS 5004 PSI. (NOTE: INCLUDES  
ONLY THOSE PRIMARY LOADS PRESENT DURING A HYDROTEST).

THE MAXIMUM PRESSURE STRESS, BASED ON THE HYDRO  
PRESSURE (CONSERVATIVELY USE 3900 PSI) AND 4"-CCB  
PIPING IS:

$$S_p = \frac{PD}{4t} = \frac{3900 \times 4.8}{4 \times 0.437} = 10,041 \text{ PSI}$$

PER NB-6222 (OF ASME SECTION III):

PRIMARY MEMBRANE STRESS  $\leq 0.9 S_y$

AND PRIMARY MEMBRANE + BENDING  $\leq 1.35 S_y$

$$S_y @ 100^\circ F = 30,000 \text{ PSI}$$

$$\therefore \text{max } 5004 \text{ PSI} \leq 0.9 \times 30,000 = 27,000 \quad \checkmark \text{OK}$$

$$\text{AND } 10,041 + 5004 = 15,045 \leq 1.35 \times 30,000 = 40,500 \quad \checkmark \text{OK}$$

BASED ON THE ABOVE, THE PIPING STILL COMPLIES  
WITH THE REQUIREMENTS OF ASME SECTION III (1971).

Stamps Rating 12-12-91  
J. L. Smith 12/24/91  
J. L. Smith 12/24/91