

**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
UNIT 1**

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.

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] Commissions NB-9800, Ohio Comm. (B.N.I.)
Inspector's Signature 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 ACCEPTABLE		PCAQ NUMBER	DATE 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	

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

COMPONENT	FIGURE NUMBER	EXAMINATION ACCEPTABLE		PCAQ NUMBER	DATE EXAMINED	COMMENTS
		YES	NO			
RCS PIPING	B09.040.119.1	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
OUTAGE NO. 7RFO

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 ACCEPTABLE		PCAQ NUMBER	DATE 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/ PISTON SETTING OUT OF 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			09/13/91	
HP HANGER	F01.020.3251.1	X		91-0389	09/13/91	IMPROPER COLD SETTING ACCEPTABLE
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			09/09/91	
FW ANCHOR	F01.020.4594.1	X		91-0343	09/06/91	LOOSE/ MISSING BOLTS ACCEPTABLE
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 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	

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, Ohio 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 System Pressure Tests

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Class 1 Piping/Components	Babcock & Wilcox	Various	N/A	
Class 2 Piping/Components	ITT Grinnell	Various	N/A	
Class 3 Piping/Components	ITT Grinnell	Various	N/A	

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 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 (CTMT 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 (RCO01L, CFO09, CFO10, DH016, RCO02) (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 RCO06) (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 2 modified safety valves Removed instrumentation
1-88-1952-07	Main Steam	Removed and reinstalled 2 modified safety valves Removed instrumentation
1-88-2084-00	Main Steam	Replaced valve MS 394
1-89-1222-00 thru 05	Main Steam	Removed and reinstalled 5 modified safety valves
1-89-1222-02 & 06	Main Steam	Repaired 2 safety valves and replaced flange studs
1-89-1222-10	Main Steam	Repaired 1 safety valve and replaced flange bolting
1-89-1222-07,08,11,12,&13	Main Steam	Removed and reinstalled 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 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 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 17
Name
5501 North 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 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-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) continue

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 and 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 NR
Certificate of Authorization No. 20 Expiration Date 7-17-92
Signed Robert E. Donnell PL MANAGER Date 3 JAN 19 71
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 Date 1-3-91 Commissions NB-32: 4103-AL (P-V) 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 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
 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 MWO 1-88-1952-07
 Address Repair Organisation P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR
 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 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. (TR-89-0012) Removed
(2) 3/4" Dresser Globe valves. S/N H201ABE Year Built 1982
S/N H018ABG Year Built 1982 () Cont. on next

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
 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. Donnell QC MANAGER Date 3 JUN 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.

[Signature] 11-3-91 Commissions NB-9201 OHIO Code (N.E.)
 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 ____

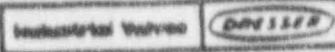
Certificate of Authorization No. _____ to use the "NR" stamp expires _____ 19 ____

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 a 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 HV-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)
- 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
SSOJ 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" 377706 (type) BH-08041 (mfr's. serial no.) N/A (Nat'l Bd. no.) Steel (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 (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 4351307 (3) P10-32 Socket Head Cap Screws P/N 2311290 (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. 108 to use the "VR" stamp expires 3-30 19 83.
 Certificate of Authorization no. 49 to use the "NP" stamp expires 3-31 19 81.
 Date June 15 1980. 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 80.
 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 1980. P.A. Thomas (Authorized Inspector) Commissions NR-9860 (B.N.I) PA 3175 (including endorsements) State or province & no.

FORM NVR-1 REPORT OF REPAIR **COPY** MODIFICATION OR REPLACEMENT OF NUCLEAR PRESSURE RELIEF DEVICE

1. Work performed by Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,
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
8501 No. State, Route 2, Oak Harbor, OH 43449
4. 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)
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) 1958
 (addenda) VI90B (code case) N/A Article 9
7. Design responsibilities: See 3, 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 screw
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2211260 (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-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, 1970. 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 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 70 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 1970, [Signature] Commissions NB-9200 (B.N.I.) PPWL 3175
 (Authorized Inspector) (Nat'l Bd No. (including endorsements) state or province & no.)

FORM NIS-2/NR 1/11
 ASME CODE BOOK FOR REPAIRS OR REPLACEMENTS
 As Required by the Provisions of the ASME Code Section XI

1. Order 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 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
Name Authorization No. 20
5501 N. SR 2, Oak Harbor, OH 43449 Expiration Date 7/17/92
Address
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
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 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 R.E. Donnell/R.E.J. Quality Control Manager Date Oct 30 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 3/27/90 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.

Inspector's Signature Raymond N. Acord

Date 11/3/90

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-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 inspected the repair, modification or replacement described in this report on 19 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
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 1-89-1222-(0,01,03,04,05
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code Symbol Stamp NR
Name
5501 North 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 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

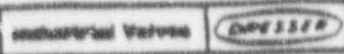
NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER'S SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION/JURISDICTIONAL NO.	YEAR BUILT	REPAIRED OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
P. S. V.	DRESSER	BM-08628	N/A	SP17A1	1972	Repaired	Yes
P. S. V.	DRESSER	BM-08633	N/A	SP17A2	1972	Repaired	Yes
P. 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 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 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 HVR-1 REPORT OF REPAIR COPY MODIFICATION OR REPLACEMENT OF NUCLEAR PRESSURE RELIEF DEVICE

1. Work performed by Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,
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
ISSI 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 (type) BM-08528 (Mfr's. serial no.) N/A (Nat'l Bd. no.) Steel (service) 6 (size) 1972 (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 8
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) 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 231128D (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 1836272H

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

CERTIFICATE OF COMPLIANCE

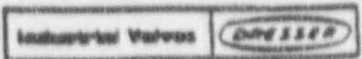
We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30 19 90
 Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 90
 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 certify 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 [Signature] (Authorized Inspector) Commission AP-9800 (B.N.I.) PAUL P. [Signature] (Nat'l Bd No. (including endorsements) state or province & no.)



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,
Intersection U. S. Hwy. 167 & LA 3223 North, Alexandria, LA (Name of Repair Organization)
1. Work performed by Toledo Edison Company, Davis-Besse Nuclear Station
 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 BH-08633 N/A Steen 6 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) S1978 (code case) N/A
 6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1968
(addenda) W1988 (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 screw
Parts Added: (1) Teflon Ring Inserts 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-8143, (1) Cotter Pin P/N 2220219, (1) Disc Holder
P/N 1836202N (1) Guide P/N 4001201

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

CERTIFICATE OF COMPLIANCE

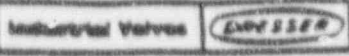
We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30 19 93
 Certificate of Authorization no. 40 to use the "NR" stamp expires 3-30 19 93
 Date 5-21 19 90 Signed [Signature] 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 this inspection.

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



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

1. Work performed by Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations, 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 (type) IB-08629 (mfr's. serial no.) K/A (Nat'l Bd. no.) Steen (service) 6 (size) 1977 (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) 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 (location) Wyle Laboratories, Huntsville, Alabama using (test media) Steen
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 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.

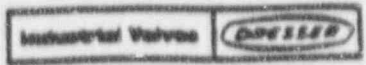
Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30 19 80
Certificate of Authorization no. 89 to use the "NR" stamp expires 3-31 19 83
Date 5-31 19 90 Signed Same as 1 above (repair organization) [Signature] (authorized representative) Principal O. A. Engineer (title)

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) Commissioner NB-9910 (R.N.I.) PAWC 3175 OHIO Code (Nat'l Bd. No. (including endorsements) state or province & no.)

1703:35



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 BN-08636 N/A Steam 6 1972
 (type) (Mfr'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) S197B (code case) N/A
 6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1958
 (addenda) W199B (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 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

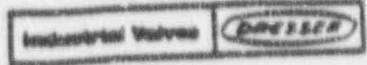
We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

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 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.
 I 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 [Signature] (Authorized Inspector) Commissions NB-9900 (B.N.I.) OHIO Comm. Ph.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)
- Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA
 - Owner (Name) Tolaco 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 nos. 6" 3772A (type) BN-09638 (mfr's. serial no.) N/A (Net'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
(addend) 5197B (code case) N/A
 - Applicable edition of ASME Code Section III to which repairs, modifications or replacements were made: (edition) 1958
(addend) W1968 (code case) N/A Article 9
 - Design responsibilities: See 1, Above
 - Opening pressure: 1080 PSIG Blowdown (if applicable): See Remarks Set pressure and blowdown adjustments made at 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 4362701
Parts Replaced: (2) Cotter Pins P/N 2220218, (1) Disc Holder P/N 1829102N

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 (repair organization) Redner R. Thomas (authorized representative) O A Enos (EITe)

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. I 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-9800 (B.N.I.) PA#C. 7175 OHIO COMM (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 MWO# 1-89-1222-02 & 06
(repair organization's P.O. no., etc.)
5501 N. SR 2, Oak Harbor, OH 43449
address

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 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 ~~RE~~ VALVES #1 & #2
 b. Name of manufacturer: Dresser Industries
 c. Identifying nos: BMO8632 & BMO8634 N/A N/A SP17A36 & SP17A7 1972
(mfr's serial no.) (Nat'l. Bd. no.) (serial no.) (year)

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. per 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 sketches is acceptable if properly identified)

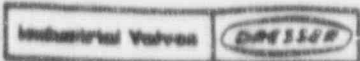
10. Remarks:
(10) Ten Flange studs replaced on SP-17A3 (SN-BMO8632)
(1) One Flange Stud replaced on SP-17A9 (SN-BMO8634)
Stud Materials are in accordance with ASME III, NC '83ED S'84 AD.; ASME III

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 R. Donnell R. C. Manager Cal 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&I Co 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] Commissions NB9800(BNF) OHIO COMPT
(Authorized Inspector) (Nat'l. 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,
- Work performed by Intersection U. S. Hwy. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)
 - Owner (Name) Toledo Edison Company, Devis-Besse Nuclear Station
(Address) 300 Madison Avenue, Toledo, OH 43682
 - Name, address and identification of nuclear power plant Devis-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 BH-08634 N/A Steel 6 1972
(type) (mfr's. serial no.) (Net'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) S197B (code case) N/A
 - Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1968
(add'l. code case) 4196C (code case) N/A Article 9
 - Design limitations: 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) Steel
 - 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 1836202H
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.

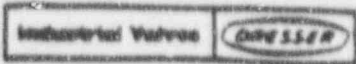
Certificate of Authorization no. 108 to use the "VR" stamp expires 3-30, 19 83.
Certificate of Authorization no. 89 to use the "NR" stamp expires 3-30, 19 83.

Date 5-31, 1990. Signed Same as 1 above [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 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, [Signature] Case # NB-9800 (B.N.I) PAWC 3175 OH
(Authorized Inspector) (Net'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,
 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
SS01 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" 37079A BM-09632 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) 5197B (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 2311280 (3) #10 Lock Washers
P/N 2010206 (1) Retaining Washer P/N 4351201
Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, HT # 8-0143, (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 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-9860 (B.N.I) PAWC 3175 (Net'l Bd No. (Including endorsements) state or province & c)

**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 NR/O# 1-89-1222-10
(name) (repair organization's P.O. no., job no., etc.)
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
(ITT's serial no.) (Nat'l Bd no.) (jurisdictional no.) (lot/no.) (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. N/A

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 if 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)

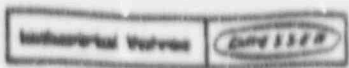
Certificate of Authorization no. 2C to the "NR" stamp expires July 17 19 92

Signed Toledo Edison Company by John C. Donohue Quality Control Manager 2/11/91 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)



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 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 43649
 - a. Identification of repaired pressure relief device: Safety Valve
b. Name of manufacturer: See 1, Above
c. Identifying nos. 6" 37078A 84-09635 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) S1978 (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 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) W. Le 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 Screw P/N 2311280 (3) #10 Lock Washers
P/N 2010206 (1) Retaining Washer P/N 4351201
Parts Replaced: (1) Disc Collar P/N 4350101 - 06421, HT # B-9143, (1) Cotter Pin P/N 2220219, (1) Disc Holder
P/N 1836202H
10. Remarks: Blowdown - Reset Pressure LUB) 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 See 1, Above (repair organization) [Signature] (Authorized representative) Principal G. 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 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-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 1980 [Signature] (Authorized Inspector) Commissioner NB 9920 (A.N.I.) PAWL 3175 OHIO COMM. (National 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

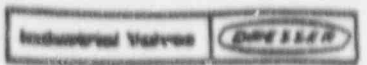
NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER'S SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION/JURISDICTIONAL NO.	YEAR BUILT	REPAIRED OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
P. S. V.	DRIFSSER	BM-08630	N/A	SP 17B1	1972	Repaired	Yes
P. S. V.	DRESSER	BM-08631	N/A	SP 17B2	1972	Repaired	Yes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



0005

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, 10th, Alexandria, LA (Name of Repair Organization)
2. Owner (Name) Toledo Edison Company, Davis-Besse Nuclear Station
 (Address) 300 Madison Avenue, Toledo, Ohio
3. Name, address and identification of nuclear power plant Davis-Besse Nuclear Station
 (SSO) No. State, Route 2, Oak Harbor, OH 43444
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 Steel 8 1972
 (type) (mfr's. serial no.) (Nat'l Ed. 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) 1958
 (addenda) M1958 (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) P10-32 Socket Head Cap Screws P/N 2311280 (3) P10 Lock Washers P/N 2010206 (1) Retaining Washer P/N 4351201
 Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, M1 # 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 89
Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 19 89

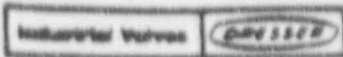
Date 5-31 1990 Signed Same as 1 above (repair organization) [Signature] (Authorized representative) Principal Q. A. Engineer (title)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certify that I am duly qualified by education and experience to perform the duties of a boiler and pressure vessel inspector. I have inspected the repair, modification or replacement described in this report on 5-31 19 90 and certify 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 [Signature] (Authorized Inspector) Commission AB-9400 (BNI) PALE 3175 CHIC (CFIM) (Nat'l Bd No. (including endorsements) State or province & no.)

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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. 167 & LA 3225 North, Alexandria, LA (Name of Repair Organization)
 2. Owner (Name) Teledyne 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" 37078A 84-08631 N/A Steel 6 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) 5197B (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: 1100.5 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 - Inlet and compression screw.
Parts Added: (1) Teflon Ring Insert P/N 4351301 (3) #10-32 Socket Head Cap Screws P/N 2311290 (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) 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-100, current editions.

Certificate of Authorization no. 108 to use the "NR" 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 (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-100, 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-9200 (BNI) PRAK 3175 OHIO CERT. (Net'l Bd. No. (including endorsements) state or province & no.)

FORM IVR-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
8501 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) (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) 5197B (code case) N/A
 6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1965
 (addenda) M1905 (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, 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 Screw P/N 2311200 (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) Collar Pin P/N 2220219, (1) Disc Holder
P/N 1A36202H

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 "NR" stamp expires 3-30 19 83.
Certificate of Authorization no. 49 to use the "NR" stamp expires 3-30 10 83.

Date 5-31, 1990. 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 Stage 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 [Signature] Commissions AIR-9800 (RNI) OHIO COMM. 2WALC.3175
(Authorized Inspector) (Nat'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 & 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, Devis-Besse Nuclear Station
(Address) 300 Madison Avenue, Toledo, OH 43652
3. Name, address and identification of nuclear power plant Devis-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" 37770A (type) BH-08640 (mfr's. serial no.) N/A (Nat'l Bd. no.) Steam (service) 8 (size) 1972 (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) 5190B (code case) N/A Article 9
7. Design responsibilities: See 1, Above
8. 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
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 2311280 (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 1839102N
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.

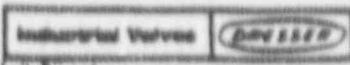
Certificate of Authorization no. 108 to use the "M" stamp expires 8-30 19 83
Certificate of Authorization no. 49 to use the "R" stamp expires 2-30 19 83

Date June 4, 1982 Signed Same as 1 above Raymond R. Thomas C. A. Eng
(repair organization) (authorized representative) (R116)

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, 1982 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. Jones 1982 B
(authorized inspector) Commissions NB-9900 (N.I.) APPX 3.75 OHIO
(Nat'l Bd No. (including endorsements) state or province & no.)



FORM NR-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 (Name of Repair Organization)
 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
8501 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" 37079A BH-08645 N/A Steel 6 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) 5167B (code case) N/A
 6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1966
 (addenda) V198B (code case) N/A Article 9
 7. Design responsibilities: See 1, Above
 8. Opening pressure: 1100.8 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 Spiraflo and compression screw
 Parts Added: (1) Teflon Ring Insert P/N 4351301 (2) #10-32 Socket Head Cap Screws P/N 231280 (3) #10 Lock Washers P/N 2010206 (4) Retaining Washer P/N 4351201
 Parts Replaced: (1) Disc Collar P/N 4350101 - 05421, HT # B-9143, (3) Cotter Pin P/N 2220219, (1) Disc Holder P/N 1636202H

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. 106 to use the "VR" stamp expires 3-30 19 80
Certificate of Authorization no. 49 to use the "NR" stamp expires 1-30 19 81

Date 5-31 1979 Signed Same as 1 above (repair organization) [Signature] (National Board 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 certify date 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 79 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 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 1979 [Signature] (Authorized Inspector) Commissioner NR-4900 (R.N.I.) PAUL C. 3175 OHIO CAMP (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 (NAME) MTR# 1-89-1571-00
(REG. ORGANIZATION I.P.C. NO. OR NO. 812)
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 N/A N/A RC13B 1976
(I.P.C. I.D. NO.) (NAT'L. ID. NO.) (UNCLASSIFIED P.I.) (OTHER) (SERIAL NO.)

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
(USE OF ADDITIONAL SHEETS OR SPECIFICATIONS IS ATTACHABLE - IDENTIFY IDENTIFIER)
SN-56264-00-0005. A VI-2 was performed at system pressure and temperature.

10. Remarks:

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

Attached:

1VR 1 Crane Aloyco
40134-2 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
(REPAIR, MODIFICATION OR REPLACEMENT)
 conforms to the applicable section of the ASME Code
 Certificate of Authorization no. 20 to use the "NR" stamp expires July 17 19 92
 Signed Toledo Edison Company Robert E. Brown Quality Control Manager 2 11 19 91
(REG. 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.
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 im-
 plied, 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 Mark C. Fry Inspector Ohio COMM. NB-9800 (2nd)
(NAT'L. BOARD NO. INCLUDING EMPLOYER'S STATE OF RESIDENCE AND TITLE)

WYLE SCIENTIFIC SERVICES
 LABORATORIES & SYSTEMS
 GROUP
 Huntsville, Alabama 35807
 TWX (810)726-2225, Phone (205)837-4411

CERTIFICATION TEST REPORT

Crane Valve
 12 E. Devonwood
 Romeoville, ILL 60441

REPORT 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 ± 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.
1/12/90

ddm

STATE OF ALABAMA | as State of AL
 COUNTY OF MADISON | Reg No. 13475
 G. R. Carbonneau, PE

SEAL

SUBSCRIBED and sworn to before me this 19th day of Jan 19 90

Notary Public in and for the State of Alabama at large.
 My Commission expires Sept 7, 1993

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

APPROVED BY P. Turrentine 1-15-90

QUALITY ASSURANCE J. P. Hamilton
G. C. W. Hight

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

1. Work performed by CRANE-ALCOYCO, INC. S.O. NB4004-001
P.O. #002111390

12 EAST DEVONWOOD/719-720 NORTH PARKWOOD, ROMEOVILLE, ILLINOIS 60441

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 required pressure relief device PRESSURIZED SAFETY VALVE

5. Name of manufacturer CROSBY VALVE & GAGE COMPANY

6. Identifying nos NR-86-87 NSA244-00-0005 (1) STEAM ADMITT 1972

7. Applicable edition of ASME Code Section II under which repairs, modifications or replacements were made 1977 5-78 3-70

8. Applicable edition of ASME Code Section III to which repairs, modifications or replacements were made 1971 W-77 3-70

9. Design responsibilities CROSBY VALVE & GAGE COMPANY

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

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, SPC
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 INLET PART #K5216-31-0004
(1) COVER P/W PART #0041
(1) BONNET ADAPTOR GASKET P. #071326
(1) SPRING & WASHER ASSEMBLY P. #K52180

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. 267 to use the "VR" stamp expires JULY 1 1990

Certificate of Authorization no. 24 to use the "NR" stamp expires FEBRUARY 17 1991

Date 1-19 1990 Signed CRANE-ALCOYCO, INC. *[Signature]* Q.A. # 11-11

CERTIFICATE OF INSPECTION

I, the undersigned, holding a State Commission issued by The National Board of Boiler and Pressure Vessel Inspectors, employed by INDREEMEN'S 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 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 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 # NR 4131 MS-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
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# 1-90-0335-01
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 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.

1 | 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
(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

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. Donnellon [RSD]
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 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.

Inspector's Signature Raymond V. Acott Date 10/30/91

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-44~~ NE-102, current editions.

Certificate of Authorization No. 316 to use the "VB" 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 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 _____ 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-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

1-90-1368-03
1-90-1377-00

1. Work performed by Toledo Edison Company (name)
300 Madison Ave., Toledo, OH 43652 (address)

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 N/A N/A RC-11 1976
(MFR'S SERIAL NO.) (NAT'L. ID. NO.) (FUNCTIONAL NO.) (IC"4") (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 SHEET(S) IS ACCEPTABLE IF CORRECTLY 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 1975</u>
<u>C.C. 1968 F/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 conforms to the applicable section of the ASME Code (repair, modification or replacement)

Certificate of Authorization no. 20 to use the "NR" stamp expired July 17 19 92

Signed Toledo Edison Company Robert S. Donnell Quality Control Manager 7-17-92
(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 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 Commissions Ohio NB 9800 (N.B.I.)
(authorized inspector) (state) (NB No. (N.B.I.))

The National Board of Boiler and Pressure Vessel Inspectors, 1055 Clupper Ave., Columbus, OH 43260

FORM NJ-2/NR-1/1-8-1 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
Name Address

2. Plant Davis-Besse Nuclear Power Station unit #1
5501 N. SR 2, Oak Harbor, OH 43449 1603 RCD
Name Address MWO# 1-90-1602-01, 03, 06
 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
Name Address Expiration Date 7/17/92 12/31/92

4. Identification of System Reactor Coolant System
 * ASME III 1968 5/70 1440

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

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)
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. ** *p MWO# 1-90-1603-03
 Pressure Relief Valve: Service Steam Size Model HB-86-BP-4XM1X6
 Opening Pressure ** Slowdown (if applicable) N/A
 Set Pressure and Slowdown Adjustments made at Wyle Scientific Services (location)
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 NR

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

Signed Robert E. Donnell Quality Control Manager Date 14 NOV 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 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-812~~ 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 14 NOV 1991 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

FORM NO. 1-NV-1/1978
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
 Address Sheet 1 of 1

2. Plant Davis-Besse Nuclear Power Station Unit #1
5501 N. SR 2, Oak Harbor, OH 43449
 Address MWO# 1-90-1603-02, 04, & 05
 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
 Address Authorization No. 20/316
 Expiration Date 7/17/92 12/13/92

4. Identification of System Reactor Coolant System
 * ASME III 1971 W/72
 5. (a) Applicable Construction Code ASME III 1974 Edition S/74 Addenda N/A Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986
 (c) Design Responsibilities Crosby Valve & Gage.

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)
PRZR Safety	Crosby	N-59303-00-0001	N/A	RC-13-B	1978	Repaired for Renl.	Yes
* PRZR Safety	Crosby	N-56264-00-0005	N/A	RC-13-B	1976	Replaced	Yes

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-56264-00-0005 location by MWO # 1-90-1603-04. A VT-2 leakage test was conducted at N.O.P. & Temperature. [] continued

8. Tests Conducted: Hydrostatic [] Pneumatic [] Nominal Operating Pressure [] Other [X] VT-2
 Pressure ** psi Test Temp. ** °F MWO# 1-90 1603-04
 Pressure Relief Valve: Service Steam size Model HB-86-BPE 4X41X6
 Opening Pressure ** Blowdown (if applicable): N/A
 Set Pressure and Blowdown Adjustments made at Wyle Scientific Services
Cuntsville, Alabama (location) 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: 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 NR

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

Signed 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 Fegan Date 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.

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 DEC 19 91 Signed Toledo Edison R E Donnell Quality Control Mgr.
 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 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 Fegan Date 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 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 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
(location)
 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
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 Isolation	74	Replaced	Yes
Valve	Dragon Mfg.	N10852	TE 16	P1-1438A Isolation	74	Replaced	Yes
Valve	Dragon Mfg.	N10836	TE 16	Decay Head Pump #2 Suction Gate Isolation	74	Replaced	Yes

7. Description of Work Replaced 3 Dragon Valves in Decay Heat Train Two Suction Gate 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 Slowdown (if applicable) NA
 Set Pressure and Slowdown 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.

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 NR

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

Signed Robert E Donnell QC MANAGER Date 8 APRIL 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 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.

Inspector's Signature Date 1-4-9-91 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-69 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-69 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 11/12/91
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 AWO # 1-91-0049-00
Repair Organization F.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 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 REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Check Valve	Powell	S/N 68351	N/A	MS-734	N/A	Repaired Replaced 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. 316 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 _____ 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 _____

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 453136

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

A handwritten signature in dark ink, appearing to read "Hudson Knock".

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
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 M/O # 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
Name Authorization No. 20
5501 N. SR 2, Oak Harbor, OH 43449 Expiration Date 7/17/92
Address

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 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)
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.

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 S. Donnellon Quality Control Manager Date 17 July 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.

[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-612, 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
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 # 1-91-0207-00
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 Decay Heat Removal

5. (a) Applicable Construction Code MSS SP58
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 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 Procedure () 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. NUMBER: 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 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 19 5/4/91
 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.

Michael C. Ferguson 17-22-91 Commission NB-9800 (B.I.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-103, 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-103, 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/NE-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 ANSI B31.1 1967 Edition Addenda Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is B6
 (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)
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
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 #4 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 1954/1 1989
 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 17-24-91 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 "VR" 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
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 # 1-91-0219-00
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 Systems 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 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 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. Donnellon Quality Control Manager Date 19 July 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.

Mark E. Fagan 7-24-91 Commissions NB-9800 (B.N.I.) Ohio Comm.
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 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
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# 1-91-0221-10/C605592D91
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 System Steam Generator 1-2
5. (a) Applicable Construction Code ASME XI 1986 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 Slowdown (if applicable) N/A
 Set Pressure and Slowdown Adjustments made at N/A
N/A (location) N/A
 using N/A (Test Medium)

NOTES: 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/NB-1/PS-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 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 Robert E. Donnell Quality Control Manager Date 21 NOV 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 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 Ferguson 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.

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 (name) C605592D91 (repair, modification or replacement)
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 (mfr.'s serial no.) N-159 (Mater. Id. no.) N/A (jurisdictional no.) N/A (other) 1972 (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 (repair organization) I.D. Ford (signature) Manager, Quality Assurance (title) 1991 (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 (signature) M. Ferguson (name) N.B. 9800(NBI) Ohio (commission no. including endorsement, state or province and number)

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

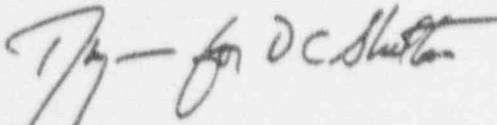
Docket Number 50-346
License Number NPF-3
Serial Number 1978
Page 3

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,



PVS/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
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 1-91-0223-00
 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 Authorisation No. 20
 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 OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
CCB-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
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 Donnellon 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.

Inspector's Signature [Signature] Date 6-27-91 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-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-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.

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
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 # 1-91-0223-01
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 Failure 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 is 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-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) 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
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 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.

Mark C. Joyce 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-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 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-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 June 19, 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 1-91-0223-02
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 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 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)
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 Slowdown (if applicable) NA
 Set Pressure and Slowdown 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
 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 Quality Control Manager Date 26 JUNE 19 91
 Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTIVE 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 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-63 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-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.

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# 1-91-0283-00
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 1986
 (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)
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 Slowdown (if applicable): N/A

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

_____ (Test Medium) using _____

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 R. T. Donnell Quality Control Manager Date 7 OCT 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 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 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 _____, 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 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
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 # 1-91-0283-01
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 Authorisation No. 20
 Expiration Date 7/17/92
4. Identification of Systems Main Steam
MSS SP58
5. (a) Applicable Construction Code ANSI B31.1 1957 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)
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.

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
5. (a) Applicable Construction Code ANSI B31.1 1987 Edition Addenda Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986
 (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 _____ 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 29 July 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 7-29-91, 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.

Robert E. Donnell 7-29-91 Commissions NB-9800 (B.N.I.) Ohio Comm.
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-45 and NB-613, 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-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/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
Name Address

2. Plant Davis-Besse Nuclear Power Station Unit #1
5501 N. SR 2, Oak Harbor, OH 43449 MVO # 1-91-0333-00
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 System LPI-Low Pressure Injection
MSS SP58

5. (a) Applicable Construction Code ANSI B31.1 197 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. <small>(R&D #)</small>	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 <i>R&D # 1-91-0333-00</i>	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 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 7-0-7 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 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 11-0-91 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-49 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "NR" stamp expires Dec. 13 1992

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 1992

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 (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.

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
 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 # 1-91-0348-00
 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 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	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)	
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 _____ 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 Adjustable Code 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.

Remarks: M. D. R. Attached for Plug; Western Piping & Energy Corporation and Control Components Inc. Control Components Inc. supplied the new plug.
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 # 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.

Inspector's Signature [Signature] Date 12-11-91 Commissions NB-9800 OHIO COMA (B.I.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. 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 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 MJOP 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 is 86
 (c) Design Responsibility 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 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 (X) 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 (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.

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
 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 Robert E Donnell Quality Control Manager Date 2 DEC 1991
 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 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 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 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 NP-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Western Piping & Engineering Corp. of Los Angeles
2450 East 53rd Street, Los Angeles, California Order No. 3551-N
(Name & Address of Manufacturer)
2. Manufactured for Control Components Inc.
2567 South Main Street, Irvine, California Order No. 21710
(Name and Address)
3. Owner Toledo Edison Co & Cleveland Electric Illuminating Co.
4. Location of Plant Oak Harbor, Ohio - Unit # 1
5. Pump or Valve Identification Main Steam Atmospheric Vent Valve Body
Serial # I (L-660)
(Brief description of service for which equipment was designed)

(a) Drawing No. 114342 Prepared by Control Components Inc.

(b) National Board No. _____

6. Design Conditions 1055 psi 600 °F
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2
 Edition 1971, Addenda Date Summer '72, Case No. _____

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
<u>101</u>	<u>ASME SA-105</u> <u>Grade 2</u>	<u>Earle H.</u> <u>Jorgensen Co.</u>	
<u>103</u>	<u>ASME SA-105</u> <u>Grade 2</u>	<u>Earle H.</u> <u>Jorgensen Co.</u>	
<u>105</u>	<u>ASME SA-105</u> <u>Grade 2</u>	<u>Taylor Forge</u>	

DESIGNED BY
 REVIEWED BY
 JUN 10 1972
 BY DC

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in (1) is shown on this data report in initial of an each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of first sheet.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
K 70123 (I1)	SA-194 GR7	U.S. Steel	Nuts
121613 (M10)	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 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 (Inspector) Commissions V.B.5111
(National Board, State, Province and No.)

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PARTS AND APPLICATIONS*
As Required by the Provisions of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by CONTROL COMPONENTS, INC.
27581 AVENUE 11 EMPRESSA, RANCHO SANTA MARGARITA, CA 92688
(Name and address of NPT Certificate Holder)
(b) Manufactured for TOLEDO EDISON COMPANY
DAVIS-BESSE POWER STATION, OAK HARBOR, OHIO 43449
(Name and address of NPT Certificate Holder for completed NPT components)

2. Identification-Certificate Holder's Serial No. Part ---- Next Ser. No. N/A Case No. N/A
(a) Constructed According to Drawing No. 320601582 Drawing Prepared by CONTROL COMPONENTS, INC.
(b) Description of Part Impressed PLUG
(c) Applicable ASME Code Section III, Edition 1971 Addendum date 5/72 Case No. N/A Case 2

3. Remarks: PART FOR MAIN STEAM ATMOSPHERIC VENT VALVE
(Brief description of service for which component was designed.)

MATERIAL	TENSILE STRENGTH (MIN. OF SPECIFIED RANGE)	NOMINAL THICKNESS	DIAMETER	LENGTH
SA182-F11	70 KSI	7"	7"	21.5"
C.C.I. W.O. #540341		C.C.I. W.O. #M180310		

Items 4-6 included to be completed for single wall vessels, sections of pressure vessels, or shells of heat exchangers.

4. Shell Material N/A T.S. N/A Spec. N/A Min. Thick. N/A in. Cor. Allow. N/A in. Shell N/A in. Length N/A in.
(Kinds & Sizes See 1) (Spec. of range specified) (N/A)

5. Seams Long N/A H.T. N/A R.T. N/A Efficiency N/A
Girth N/A H.T. N/A R.T. N/A No. of Courses N/A

6. Heads (a) Material N/A T.S. N/A (b) Material N/A T.S. N/A

Location	Thickness	Open Radius	Seam to Radius	Stitching Radius	Control Allow. Factor	Hydrotest Method	Pen. Exam.	Shell to Pressure Vessel or Section
(a) Top, bottom, ends	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(b) Chassis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

If removable, bolts used (a) N/A (b) N/A (c) N/A Other fastening N/A
(Material, Spec. No., T.S., S.S. Number) (Description of other exam.)

7. Jacket Closure N/A
(Describe as open and closed, see sec. 11 for girth dimensions, if jacket designed or shown)

8. (a) Design Pressure 1065 psi at 600 °F (b) Min. Pressure-Temp. N/A °F

Items 9 and 10 to be completed for tube sheets

9. Tube Sheet Secondary Material N/A Spec. N/A in. Thick. N/A in. Diameter N/A
(Kinds & Sizes See 1) (Material or spec.) (N/A)

Flanging Material N/A Spec. N/A in. Thick. N/A in. Diameter N/A

10. Tubes Material N/A O.D. N/A in. Thick. N/A in. or L.P.D. Number N/A Tube N/A
(Material or spec.) (N/A) (Length or ft)

Items 11-14 included to be completed for inner chambers of jacketed vessels or chambers of heat exchangers

11. Shell Material N/A T.S. N/A Spec. N/A Min. Thick. N/A in. Cor. Allow. N/A in. Shell N/A in. Length N/A in.
(Kinds & Sizes See 1) (Spec. of range specified) (N/A)

12. Seams Long N/A H.T. N/A R.T. N/A Efficiency N/A
Girth N/A H.T. N/A R.T. N/A No. of Courses N/A

13. Heads (a) Material N/A T.S. N/A (b) Material N/A T.S. N/A

Location	Thickness	Open Radius	Seam to Radius	Stitching Radius	Control Allow. Factor	Hydrotest Method	Pen. Exam.	Shell to Pressure Vessel or Section
(a) Top, bottom, ends	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(b) Chassis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

If removable, bolts used (a) N/A (b) N/A (c) N/A Other fastening N/A
(Material, Spec. No., T.S., S.S. Number) (Description of other exam.)

14. (a) Design Pressure N/A psi at N/A °F (b) Min. Pressure-Temp. N/A °F

* If designing heat-treated, ¹ See other material or section specified with applicable requirements when applicable.
² Supplemental sheets in form of bolt, nut, washer, or gaskets may be used provided (1) they are in accordance with (a) and (b) of this Code Report is included on each sheet, and (2) each sheet is numbered and number of sheets is indicated in item 3, Remarks.

FORM N-2 (Rev.)

Items below to be completed for all vessels where applicable

15 Safety Valve Outlets Number N/A Size N/A Location N/A

16 Nozzles

Purpose (with service sheet)	Number	Design or Size	Type	Material	Thickness	Representation 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 Handholds No. N/A Size N/A Location N/A

Cleanings Handholds No. N/A Size N/A Location N/A

Threaded: No. N/A Size N/A Location N/A

18 Supports Skirt N/A (Y or Z) Lugs N/A (Number) Lugs N/A (Number) Other N/A (Describe) Attached N/A (Where & how)

We certify that the statements made in this report are correct and the vessel part or equipment as 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 apparatuses is responsible for furnishing a separate Design Specification and Design Report if the apparatus is 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 (where 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 or Province of CALIFORNIA and employed by H.S.R.I. S.I. CO. at HARTFORD, CONNECTICUT have inspected the part of a pressure vessel described in this Part of 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 the Part of Data Report. Purchasers, 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] Inspector's Signature

Ca 1494 Commission No. (National Board, State, Province and No.)



Control Components Inc.
An B&B valve company

22221 Avenida Encinas
Foster City, California 94024
Tel. (714) 858-1877 • FAX (714) 858-1076 • Telex 620020

DATE: May 17, 1988
 TO: Toledo Edison
 Attn: Don Gels
 FROM: Fred Zilke
 SUBJECT: See Below
 REF: Toledo P.O. 021001742987
 FAX No. 1 (419) 249-2340
 Ext. 202

#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 E/S P/W 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:

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# 1-91-0421 02
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 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 is 86
 (c) Design Responsibility Lisega

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)
PSP-1-H34	Grinnell	15994	N/A	C-146	N/A	Replaced	No
PSP-1-H34	Lisega	61219/47	N/A	C-146	N/A	Replacmnt.	No

7. Description of Work Replaced hydraulic snubber 15994 with new Lisega hydraulic snubber 61219/47.

() 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.

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 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. Donohue Quality Control Manager Date 15-6-91

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 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 3-20-91 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.
Inspector's Signature: [Signature] Date: 10-23-91 Commission: NB-9806(RNI) OHIO COMM National Board, State, Province and Jurisdictions

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 91
Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 91
Date 19 19 Signed Toledo Edison Repair Organization Authorized Representative Quality Control Mgr.

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.

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 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# 1-91-0421-03
Address Repair Organization F.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 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 is 86
 (c) Design Responsibilities Lisega
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-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

7. Description of Work Replaced hydraulic snubber 16860 with new lisega hydraulic snubber 61219/52.

[] 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 REPLACEMENT repair or replacement conform to the rules of the ASME Code, Section II.

Type Code Symbol Stamp NR

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

Signed Robert E. Donnell Quality Control Manager Date 10-27 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 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 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.

Inspector's Signature [Signature] Date 10-23-91 Commission NB-9800 (B, 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 II and Section III of the ASME Code and the National Board rules as defined in the publications NB-63 and NB-64, current editions.

Certificate of Authorization No. NB-102 316 to use the "NB" stamp expires Dec. 13 19 92

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

Date _____ 19 ____ 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.

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 II and Section III of the ASME Code and the National Board rules as defined in the publications NB-63 and NB-64, 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.

Commissioner _____

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
Name
300 Madison Ave Toledo, Ohio 43652 Sheet 1 of 1
Address

2. Plant Davis Beesse Nuclear Power Station Unit 01
Name (660559204)
5501 North S.R. 2 Oak Harbor, Ohio 43449 MWO# 1-91-0430-00 ~~(6605592001)~~ 258
Address Repair Organization O. No. Job No. etc.

3. Work Performed by ABB/CE Nuclear Power Type Code Symbol Stamp NR
Name
1000 Prospect Hill Rd Authorization No. 2
Windsor CT. 06095-0500 Expiration Date 3-17-93
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 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
 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 NR

Certificate 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 11/21/91 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 92

Certificate of Authorization No. 20 to use the "NR" stamp expires 7/17 19 92

Date 11/11/91 Signed Toledo Edison Co 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 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 responsibilities B&W 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.
620-0014-31-52	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. of 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

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. Donahue Quality Control Manager Date 17 Nov 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 8-27-91 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 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 J. Press 11/21/91 Commission NB-9800, OHIO CORR. (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 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 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 19 91

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 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 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 MWO# 1-91-0445-00
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 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 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)
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 (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 (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.

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 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 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.

[Signature] 10-17-91 Commissions NB-8800 (ENR) 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-69 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VE" stamp expires Dec. 13 1992

Certificate of Authorization No. 20 to use the "EB" 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 publications NB-69 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 III

1. Owner Toledo Edison Company Date October 14, 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 MVO #1-91-0445-01
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 Steam Generator 1-1 Drain System

5. (a) Applicable Construction Code ANSI B31.1 is 67 edition Addenda Code C.S.
 (b) Applicable Edition of Section III Utilized for Repairs or Replacements is 86
 (c) Design Responsibility ITT Grinnell

6. Identification of Components Required or Repaired 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-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
 Operating 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" 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.

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 repair or replacement conforms to the rules of the ASME Code, Section II.

Type Code Symbol Stamp NR

Certificate of Authorization No. 20 Expiration Date 7/31/92

Signed Robert E. Donnell Quality Control Manager Date 10-15-91 1991
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 examination 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 10-15-91 Commission NR-9200(BNS) 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 II 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 "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

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. & 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 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-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 _____

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.

Inspector's Signature [Signature] Date 11-17-91 Commission NR-9800 (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-49 and ~~NS-442~~ NS-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 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 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-49 and NS-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 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 ANSI B31.1 1967 Edition ASME Addenda ASME 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-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.

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 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 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. & J of Hartford, CT. have inspected the

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.

Mark L. Jones 110-1791 Commission NR-9800, R.N.I. OHIO CODE
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 "VB" stamp expires Dec. 13 19 92

Certificate of Authorization No. 20 to use the "NB" 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. & 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
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# 1-91-0445-04
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 Authorization No. 20
Address Expiration Date 7/17/92

4. Identification of System Steam Generator 1-1 Drain System

5. (a) Applicable Construction Code MSS SP58 ANSI B31.1 1967 Edition ANSI B31.1 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
(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
Certificate of Authorization No. 20 Expiration Date 7/17/92
Signed RE Donnellon / R.D. Quality Control Manager Date Oct. 20 1991
Owner or Owner's Designation, 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 3-18-91 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. Acorn 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-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 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.

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
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 # 1-91-0445-05
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. _____
 Expiration Date 10/1997

4. Identification of System Steam Generator 1-1 Drain

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 19 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 REPLACED	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 () Normal Operating Pressure () Other () Continued
 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 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 Date 15 OCT 19 91
Signed Robert E. Donahue Quality Control Manager
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 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.

Paul L... 10-17-91 Commissions NB-9900, 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 92
Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 92
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 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
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 0463-00
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 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 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)
HGR. 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~~ ^{aged 6-27-91} 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 Slowdown (if applicable) N/A
 Set Pressure and Slowdown 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 NR

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

Signed Robert E. Donnellon Quality Control Manager Date 28 JUNE 1991
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTOR 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 7-16-91 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.

Mark C. L... 7-16-91 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 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 07/23/91
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# 1-91-0473-00
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 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 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)
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
(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.

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
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# 1-91-0474-00
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 Systems LPI TO Recator Vessel Loop #1

5. (a) Applicable Construction Code NSF SP58
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)
CCA-6-H5	Grinnell	14205	N/A	C-274	N/A	Replaced	NO
CCA-6-H5 <i>Repl 10/2/91 2017 10/2/91</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
(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 Replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp NP

Certificate 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. Foyan 10-13-91 Commissions NB-9200 (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
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# 1-91-0475-00
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 Authorisation No. 20
 Expiration Date 7/17/92

4. Identification of Systems LPI to Reactor Vessel Loop #2

MSS SP58
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 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 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 Manger Date 10 OCTOBER 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. Co. of Hartford CT. have inspected the

components described in this Owner's Report during the period 4-9-91 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.

Inspector's Signature Date 11-10-91 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-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 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)
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 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. Donnellan 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.

Robert E. Donnellan 110-19-91 Commissions NB-9200 (B.V.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-65 and ~~NB-102~~ 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 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 HIS-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# 1-91-0534-00
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 System Main Feedwater
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 1986
 (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 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
 Certificate of Authorization No. 20 Expiration Date 7/17/92
 Signed Robert E. Donnell Quality Control Manager Date 19 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 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. Ferguson 11-19-91 Commissions NR-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-102~~ 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-65 and NB-102, current editions. My 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 _____

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. Donellan Quality Control Manager Date 16 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 10-17-91 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.

[Signature] 10-17-91 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-64~~ 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 "MR" 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-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 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 System Main Feedwater

5. (a) Applicable Construction Code MSS SP58 Edition ANSI B31.1 19 Addenda Code Case
ANSI B31.1 19
 (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)
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) Functional 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
 conforms to the rules of the ASME Code, Section XI. repair or replacement

Certificate of Authorization 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 Commissions NB-9000 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-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 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-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/RVE-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# 1-91-0544-02
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 System Main Feedwater to Steam Generator 1-1
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.	OTW & IDENTIFICATION/JURISDICTIONAL NO.	YEAR BUILT	REPAIRED OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
C-240	Grinnell	12491	N/A	EBB-3-SR26D <i>rec'd 10-17-91</i>	N/A	Repaired	No

7. Description of Work Rebuilt and functionally tested snubber 12491.

[] 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 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 Robert C. Donatelli 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. & 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.

[Signature] 11/17/91 Commission 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-65 and ~~NB-63~~, current editions.

Certificate of Authorization No. NB-102 316 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-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 Authorization No. 20
5501 N. SR.2. Oak Harbor, Ohio 43449 Expiration Date July 17, 1992
Address
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 OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Hanger GCB-10-H29	ITT Grinnell	9441	N/A	D.B. Tag A-77	1967 OR Later	Replaced	No

7. Description of Work Removed existing 2 1/2" Grinnell snubber at hanger GCB-10-H29 and replaced it with rebuilt 2 1/2" 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) 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

* Construction Code ANSI B31.1 & 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 NR

Certificate of Authorization No. 20 Expiration Date July 17, 1992

Signed Robert E Donnellon QC MANAGER Date MAY 21, 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 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-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/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 Sheet 1 of 1
Address

2. Plant Davis-Besse Nuclear Power Station Unit #1
Name
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-91-1208-00
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 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 Utilized for Repairs or Replacements is 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
 using 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
repair or replacement

Type Code Symbol Stamp NR

Certificate of Authorization No. 20

Expiration Date 7/17/92

Signed R.E. Donvickon / R.T.D.
Owner or Owner's Designee, Title

Quality Control Manager

Date Oct 29 1991

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.

Inspector's Signature Raymond N. Acant

Date 11/17/91

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 19 92

Certificate of Authorization No. 20

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

Date 19 19 19 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 19 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 10-29-91
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 Responsibility 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.

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 W/O# 1-91-1268-00
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 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.	YEAR 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	Replacement	Yes

7. Description of Work Replaced like for like pressurizer manway stud nut

[] Continued

8. Tests Conducted: Hydrostatic Pneumatic Normal Operating Pressure Other
 Pressure 2185 psi Test Temp. 448 °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

STATEMENT 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. Donnell, RST Quality Control Manager Date Nov. 6 19 91
Owner or Owner's Designee, Title

STATEMENT OF INSPECTOR 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

STATEMENT 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-45a, current editions.

Certificate of Authorization No. NB-102 316 to use the "TR" 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

STATEMENT 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 _____ 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-45a, 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 Rockwell International Corp.
(Name and address of Manufacturer)

2. Manufactured for Rockwell International Corp. 420 Hilltop Ave. Torrance, Calif.
(Name and address of Purchaser)

3. Type Water Vessel No. 607-11-59 Mod. & No. 11-157 Year Built 1972

4. Applicable ASME Code Section III, Division 1 Address date 11-20-74 Code No. 10000

5. Shell Material SA-516-70 T.S. 58,000 Allow. 11.6 Dia. 7 Ft. 0 In. Length 42 Ft. 0 In.

6. Head: Long SA-516-70 T.S. 58,000 Allow. 11.6 Dia. 7 Ft. 0 In. Length 42 Ft. 0 In.

7. Head: Short SA-516-70 T.S. 58,000 Allow. 11.6 Dia. 7 Ft. 0 In. Length 42 Ft. 0 In.

Location (Type, section, code)	Thickness	Crack Bottom	Linear Bottom	Elliptical Bottom	General Allowance	Noncircular Bottom	Flat Diameter	Safe to Pressure (Stress or Class)
(a) TCP	1-7/8"					11-5/8"		CONCERN
(b) W.P.	1-7/8"					11-5/8"		CONCERN

8. Design pressure 2000 psi at 600 °F. or temp. of 600 °F. Hydrostatic Test Pressure 3000 psi

9. Safety or Relief Valve Outlet: Number 1 Size 1/2" Location Top

10. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Size or Size	Type	Material	Flange	Welding Process	Insulation	Any Additions
100 S.W. Inlet	1	2"	Flange	SA-516-70	None	None	None	None

11. Inspection Holes, No. 2 Size 1/2" Location Top

12. Remarks: (a) Class A Pressure Vessel; (b) Water; (c) See Remarks for details of construction.

CONTROL COPY

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

Date 5/8/73 By Richard Hill Field Service Engineer

CERTIFICATION OF DESIGN

Design information on file at _____

Stress analysis report on file at _____

Design specifications certified by _____ Prof. Eng. _____

Stress analysis report certified by _____ Prof. Eng. _____

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY _____

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and in State of _____ and exp. date _____

have inspected the pressure vessel described in the manufacturer's data report on _____ 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 this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be held liable for any personal injury or property damage in a case of any kind arising from or connected with this inspection.

Date 5/8/73 Inspector Richard Hill

7749-M-507-13
10000

SUPPLEMENTAL SHEET

MANUFACTURERS' DATA REPORT FOR NEW VESSELS
 (For Single or Other Completely Shop-Fabricated Vessels Only)
 Administered by the Committee of the ASME Code Rules

Name of Manufacturer: Wilson Co., Mt. Vernon, Ind.
 Name and Address of Purchaser: 1000 10th St. Ave., Toledo, Ohio
 Vessel No.: 10014-00 Vess. Des. No.: 1-157 Year Built: 1978

Part Name	Quantity	Dim. or Size	Type	Material	Thickness	No. Substituted	How Attached
Survey	1	16"		SA508 Cl-1 132-4	5.425"	Intersect	Welded
Press. Relief	1	2-1/2"		SA508 Cl-1 132-4	4.200"	Intersect	Welded
Press. Relief	2	8"	Weld	SA508 Cl-1 132-4	2.250"		
Flange End	2	8"	Weld	A102 CR P316	1.181"		
Flange End	1	2-1/2"	Weld	A102 CR P316	.970"		
Flange	1	8"	Weld	SA508 Cl-1 132-4	.850"		
Flange	1	10"	Weld	SA508 Cl-1 132-4	.910"		
Flange End	1	4"	Weld	A102 CR P316	.610"		
Flange	1	10"	Weld	SA508 Cl-1 132-4	.875"		
Flange	6	1/4"	Weld	A102 CR P316	.306"		
Flange	1	1"	Weld	SA508 Cl-1 132-4	.302"		
Flange	1	1"	Weld	SA508 Cl-1 132-4	.302"		
Flange	1	1-1/2"	Weld	SA508 Cl-1 132-4	.310"		
Miscellaneous Parts (NA)	1	1/2" x 1/2" x 1/2"	NA	3/16-7"	1/2"	NA	Welded
M.V. Flange	1	1" O.D.	NA	1/2-0-1"	.275"	NA	Welded
M.V. Flange	13	2-3/4" x 8"	NA	1/2-32-1-3/4"	2.250"		Threaded
M.V. Flange	13	2-7/8" x 8"	NA	1/2-32-1-3/4"	Heavy		Threaded
M.V. Flange	13	2-7/8" x 8"	NA	1/2-32-1-3/4"	1.40"		Threaded
M.V. Flange	13	2-7/8" x 8"	NA	1/2-32-1-3/4"	Heavy		Threaded
Flange Plate	1	2" x 2"	NA	1/2-32-1-3/4"	9-3/16"		Welded

Remarks: (a) Three heater bundle assemblies were not illustrated with app. writer. They will be submitted separately as components of the heater bank.

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 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 MIO# 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 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.

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
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# 2-90-0013-14
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 Main Steam System
MSS-SP8
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 / Lisega
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-SR8	Grinnell	12448	N/A	C-175	N/A	Replaced	No
EBB-1-SR8	Lisega	61237/31	N/A	C-175	N/A	Replacement	No

7. Description of Work Removed Grinnell hydraulic snubber serial # 12448 and installed a Lisega hydraulic snubber serial # 61237/31.

() 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.

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
(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 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 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. Lujan 11/03/91 Commission NB-9800 (BNI) OHIO COM.
 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. 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 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 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 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 MNO 2-90-0019-01
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Toledo Edison Company Type Code - Label 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 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 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 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 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.P. Quinn / R.P. Quality Control Manager Date Oct 30 19 91
Owner or Owner's Designee, Title

CERTIFICATE OF IMMEDIATE 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. Acme 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 _____ 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 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 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. Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Std. No.	(g) Year 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)
(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>V11801</u>	<u>SA-216-WCB</u>	<u>American Foundry</u>	<u>1QE</u>
<u>V11795</u>	<u>SA-351-CF8M</u>	<u>American Foundry</u>	<u>1QG</u>
(b) Forgings			

(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.

Part No.	Material Sp. No.	Manufacturer	Remarks
(c) Bolting			Heat Codes
(d) Other Parts			
V11806	SA 564-630 Cord 1025	Coulter Steel	LWA
V11787	SA 479-316	Coulter Steel	LHD
V11814	SA 564-630 Cord 1025	Coulter Steel	LVZ
V11815	SA 564-630 Cord 1025	Coulter Steel	LVZ

9. Hydrostatic test 450 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1986.

Addenda None (Date) Code Case No. N/A Date

Signed Valtek Inc. by M. Marsor 14 Aug 91
(Manufacturer)

Our ASME Certificate of Authorization No. 1884 to use the N symbol expires 14 Oct 92
(N) (NPV) (Date)

CERTIFICATION OF DESIGN

Design information on file at Valtek Inc., PO Box 2200, Mtn. Springs Pkwy., Springville,
Stress analysis report (Class 1 only) on file at Valtek, Inc. Utah 84667

Design specifications certified by (1) Mark A. Harris

PE State Ohio Reg. No. E-053281

Stress analysis certified by (1) Fred M. Cain

PE State Utah Reg. No. 7080

(1) Signature not required. List name only.

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 or Province of Utah and employed by H.S.B.I. & I. Co. of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 7 Aug 1991 and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, 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 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 8/15 1991

[Signature]
(Inspector)

Commissions Ut 91 Ohio
(Nat'l Bd., State, Prov. and No.)

24

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 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 MJO 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 OR REPLACED	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 Normal Operating Procedure Other 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 Media)

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.

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 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.P. Donnellon, IRTD Quality Control Manager Date Oct. 30, 1991
Owner or Owner's Designee, Title

CERTIFICATE OF INSPECTIVE 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 10-20-91 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 make 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 11/30/91 Commission NR-9557-NI
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. 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 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 make 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 _____

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Boiling			Heat Codes
(d) Other Parts			
V11791	SA-479-316	Coulter Steel	LWQ
V11807	SA 564-630 H 1025	Coulter Steel	LWA
V11822 V11816	SA 564-630 H 1025	Coulter Steel	LVZ

9. Hydrostatic test 450 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. L, Edition 1986.

Addenda None Code Case No. N/A Date 15 Aug 91

Signed Valtek (Date) by [Signature] (Manufacturer)

Our ASME Certificate of Authorization No. 1884 to use the N (N) (NPV) symbol expires 14 Oct 92 (Date)

CERTIFICATION OF DESIGN

Design information on file at Valtek Inc., PO Box 2200, Mtn. Springs Pkwy., Springville, Utah 84663

Stress analysis report (Class 1 only) on file at Valtek, Inc.

Design specifications certified by (1) Mark A. Harris

PE State Ohio Reg. No. E-053281

Stress analysis certified by (1) Fred M. Cain

PE State Utah Reg. No. 7080

(1) Signature not required. List name only.

100 2 in 4

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors in the State or Province of Utah and employ by H.S.B.T. & T. Co. of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 14 Aug 19 91 and state that to the best of my knowledge and belief the Manufacturer has constructed this pump, or valve, 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 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 8/15 19 91

[Signature] (Inspector) Commissions Ut 91 Ohio Conn. (Natl. Bd. State Prov. 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
Name
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
Address
2. Plant Davis-Besse Nuclear Power Station Unit #1
Name
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 2-90-0079-03
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 Systems Pressurizer Spray Line (064-04)
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 19 86
 (c) Design Responsibilities ITT Grinnell/Lisega/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 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	15889	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/NB-1/NB-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 Donnellon / 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 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.

Inspector's Signature [Signature] Date 1-15-92 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. _____ 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 a 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 January 15, 1992
Name
300 Madison Ave., Toledo, OH 43652 Sheet 2 of 2
Address
2. Plant Davis-Besse Nuclear Power Station Unit #1
Name
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
Name
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)
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 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 (YES OR NO)
PS-H12	Lisega	6121950	N/A	DB Tag# C-198	N/A	Repl.	No
PS-H15	Lisega	6125401	N/A	DB Tag# C-201	N/A	Repl.	No
PS-H20	Lisega	6121948	N/A	DB Tag# C-161	N/A	Repl.	No
PS-H21	Lisega	6121949	N/A	DB Tag# C-162	N/A	Repl.	No
PS-H27	Lisega	6121953	N/A	DB Tag# C-139	N/A	Repl.	No
PS-H29	Lisega	6121951	N/A	DB Tag# C-141	N/A	Repl.	No
PS-H31	Lisega	6121952	N/A	DB Tag# C-143	N/A	Repl.	No
PS-H34	Lisega	6121947	N/A	DB Tag# C-146	N/A	Repl.	No
PS-H36 (x)	Lisega	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 Lisega.

[] 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. Donnellan, R.E.I. 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] 11-15-92 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 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 **OVERHAUL & REPAIR 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
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 MJO# 2-90-0079-05
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 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 is 86
 (c) Design Responsibilities Lisega

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)
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	Lisega	61219/60	N/A	PSP-1-H3	N/A	Replacmnt	No
C-159	Lisega	61219/59	N/A	PSP-1-H17	N/A	Replacmnt	No

7. Description of Work Replaced hydraulic snubber 13262 with new Lisega snubber 61219/60
replaced hydraulic snubber 13260 with new Lisega 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 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

Replacement
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.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

110-24-91
Date

Commissions

NB-9800 (BNI) OHIO COMM.
National Board, State, Province and Inspectments

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 conform to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-63 and NB-513, current editions.

Certificate of Authorization No. 316

to use the "VR" stamp expires Dec. 13

Certificate of Authorization No. 20

to use the "NR" stamp expires July 17

Date 19 Signed Toledo Edison
Repair Organization

Authorized Representative

Quality

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 performed 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.

Commissions

FORM No-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
Name Address

2. Plant Davis-Besse Nuclear Power Station Unit #1
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 2-90-0079-06
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 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 Responsibility Grinnell/Lisega

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 MFG.	REPAIRED OR REPLACED	ASME CODE STAMPED (YES OR NO)
PSP-1-H36z	Grinnell	21305	N/A	C-147	N/A	Replaced	No
PSP-1-H36z	Lisega	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	Lisega	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	Lisega	61219/54	N/A	C-149	N/A	Repl.	No

WCP HWA
RCD HWA

7. Description of Work Removed existing Grinnell snubbers S/N 21305, 30224, and 13269.
Installed new lisega 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 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. Donnellan / R.E.D. 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.

Inspector's Signature [Signature] Date 10-25-91 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.

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 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 _____ 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
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 # 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
Name
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 1968 Edition No. Addenda No. Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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
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. Donnellan Quality Control Mgr. Date 18 DEC 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 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 Authorized Representative Title
Repair Organization

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 ~~XXXXXX~~, modified ~~XXXXXXXXXX~~ 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
(ITC's serial no.) (Natl. Bd. no.) (jurisdictional P.) (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 OF SKETCHES IS ATTENDABLE - 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 Mark C. Logan Commissions OHIO COMM, NB 9800 (N.B. 100)
(authorized inspector) (Natl. Bd. no. including endorsement; state or province and number)

POTENTIAL CONDITION
ADVERSE TO QUALITY REPORT CONTINUATION SHEET
ED 7632E-1

PCAQR NO

90-0695

PAGE

2 OF 2
FF FF

PART	ITEM	CONTINUATION
5	F	<p>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:</p> <ol style="list-style-type: none"><li data-bbox="423 459 1534 593">1) The original construction hydrostatic tests for this piping met the Section III requirements for piping rated at the new temperature and pressure.<li data-bbox="423 660 1534 840">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. <p style="text-align: right;"><i>Francis A. Turzki</i> <i>J. Hartigan 11/14/91</i> <i>ART J.L. [unclear] 12/3/91</i></p>

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 (MVO's 2-86-0432-06, 2-86-0432-27 and 2-86-0432-45) and FCR 89-0066 (MVO 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:

The specified minimum hydrostatic test pressure of 1.25 times the design pressure multiplied by the lowest ratio of the permissible stress intensity values at the test temperature to the permissible stress intensity value at the design temperature. For the piping system considered,

$$P = (1.25) (2500) (18.8/16.7) = 3518 \text{ psig}$$

For the piping re-rated to 2500 psi/650°F

$$P = (1.25) (2500) (18.8/16.7) = 3518 \text{ psig}$$

For the piping re-rated to 2600 psi/200°F

$$P = (1.25) (2600) (18.8/18.0) = 3250 \text{ psig}$$

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-402 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
Referral 12/11/91
ANII R/W M.C. Foye 1/1/91

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) ^(SEE SHEET 10) 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" GCB
PIPING IS:

$$S_p = \frac{PR}{4t} = \frac{3900 \times 4.8}{4 \times 0.437} = 10,041 \text{ PSI}$$

PER NB-6222 (OF ASME SECTION III):

PRIMARY MEMBRANE STRESS $\leq 0.9 S_y$
AND PRIMARY MEMBRANE + BENDING $\leq 1.35 S_y$
 $S_y @ 100^\circ = 30,000 \text{ PSI}$

$\therefore 10,041 \text{ PSI} \leq 0.9 \times 30,000 = 27,000 \quad \checkmark$
AND $10,041 + 5004 = 15,045 \leq 1.35 \times 30,000 = 40,500 \quad \checkmark$

BASED ON THE ABOVE, THE PIPING STILL COMPLIES
WITH THE REQUIREMENTS OF ASME SECTION III (1971).

Stamps Rating 12-12-91
JANE RYAN 12/12/91
M.C.F. 12/12/91