

ISI SUMMARY REPORT

REFUELING OUTAGE.: 9RFO

OUTAGE START DATE: October 1, 1994

EXAMINATIONS COMPLETED: November 13, 1994

REPORTING DATE: January 26, 1995

DAVIS - BESSE NUCLEAR POWER STATION

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

300 Public Square

Cleveland, Ohio 44101

NRC DOCKET NUMBER: 50-346

OPERATING LICENSE: NPF-3

COMMERCIAL OPERATION: November 21, 1977

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ABSTRACT

This report provides a summary of the ASME Class 1 and 2 nondestructive examinations and pressure tests performed during the 9th Operating Cycle and the 9th Refueling Outage (9RFO) at the Davis Besse Nuclear Power Station.

The nondestructive examination and pressure test program was performed by Toledo Edison and B&W Nuclear Technologies personnel from May, 1993 through November, 1994. 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 were conducted in the second period of the second ten year inservice inspection interval.

The NDE examinations consisted of Ultrasonic (UT), Liquid Penetrant (PT), Magnetic Particle (MT), and Visual (VT-1, VT-2, VT-3) examinations. There were a total of 267 preservice and inservice ASME Class 1 and 2 examinations performed. The total number of components for which all examinations have been completed in the Second Ten Year Interval is 483 or 44 percent of the required examinations. During the 9RFO, 4 indications requiring further evaluation were identified. Each was found acceptable.

Pressure tests consisted of functional, inservice, and hydrostatic tests. In addition to tests conducted in accordance with the Pressure Test Program, tests were also conducted following repairs or replacements. In total, 26 pressure tests were successfully conducted.

Approximately 14 percent of the tubing in both Once Through Steam Generators was eddy current (ET) examined. One tube with an indication greater than 40% through wall was plugged in Steam Generator 1-1. Two additional tubes, one in Steam Generator 1-1 and one in Steam Generator 1-2, were plugged as a preventive measure. Also 199 tubes in Steam Generator 1-2 were sleeved as a preventive measure.

All repairs and 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 testing and examination records, are available in Toledo Edison's Records Management System for review.

1. Owner TOLEDO EDISON COMPANY, 300 MADISON AVENUE., TOLEDO, OHIO 43652
(Name and Address of Owner)

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

STEAM GENERATOR TUBING

[illegible]

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 recorded at the top of this form.

STEAM GENERATOR EDDY CURRENT EXAMINATION RESULTS

The tubing in the Once Through Steam Generators (OTSGs) at the Davis Besse Nuclear Power Station Unit #1 was examined in October, 1994 during the 9th Refueling Outage. The examinations were conducted by B&W Nuclear Technologies 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 Bobbin Coil, a Motorized Rotating Pancake Coil (MRPC), a Crosswound/Bobbin Coil, and a Rotating Crosswound Probe. The Bobbin Coil was used to perform the standard ASME Code examination for defect detection and sizing, the auxiliary feedwater header gap measurement, and profilometry of sleeve candidate tubes prior to sleeving. The MRPC technique was used to characterize indications reported by the bobbin coil technique by confirming the presence of the indication, clarifying the geometry of the indication, and when possible, assisting in the determination of flaw type. The Crosswound/Bobbin Coil was used to perform flaw detection in tube sleeves and in the parent tubing adjacent to the lower tube sleeve end. This technique was also used to perform profilometry of the sleeves rolled joints and to verify proper positioning of the sleeves after installation. The Rotating Crosswound Probe was used to perform flaw detection in the sleeve and parent tube in the area of the rolled joints.

Approximately 14.3% percent of the tubes in Steam Generator 1-1 were examined using the Bobbin Coil. All tubes were examined full length with the exception of one tube which did not require a full length examination. Seven tubes had indications of 20% or greater through wall. One tube had a 98% through wall indication and was subsequently plugged. One other tube, which had a 37% through wall indication, was plugged as a preventive measure. One Hundred seventy two tubes were examined to determine their proximity to the internal auxiliary feedwater header. One tube was determined to have a gap greater than the minimum 0.125 inches, but less than 0.250 inches. All other tubes were determined to have a gap greater than 0.250 inches.

Approximately 14.3% percent of the tubes in Steam Generator 1-2 were examined using the Bobbin Coil. All tubes were examined full length with the exception of three tubes. Two tubes were restricted by the data acquisitions system's positioning pins and one tube did not require a full length examination. The loss of examination coverage was limited to only a few inches near the tube end. Seven tubes had indications of 20% or greater through wall. None of these indications exceeded 40% through wall. However, one tube was plugged as a preventive measure. One Hundred sixty seven tubes were examined to determine their proximity to the internal auxiliary feedwater header. All tubes were determined to have a gap greater than 0.250 inches. One Hundred Ninety nine tubes, which were sleeved this outage, were examined and no indications in the tube sleeves were noted.

Detailed examination results are contained in the 9th Refueling Outage Steam Generator Eddy Current Inspection Report which is available for review in Toledo Edison's Records Management System.

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner TOLEDO EDISON COMPANY, 300 MADISON AVENUE., 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

STEAM GENERATOR TUBING

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
OTSG 1-1	BABCOCK & WILCOX	620-0014-055-11	N/A	158
OTSG 1-2	BABCOCK & WILCOX	620-0014-055-12	N/A	159

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 recorded at the top of this form.

FORM NIS-1 (back)

8. Examination Dates OCT 1994 to OCT 1994 9. Inspection Interval from SEPT 1990 to SEPT 2000
10. Applicable Editions of Section XI 1986 Addenda NONE
11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.
SEE 1994 EDDY CURRENT EXAMINATION REPORT
12. Abstract of Conditions Noted.
SEE ATTACHED
13. Abstract of Corrective Measures Recommended and Taken
SEE ATTACHED

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

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 1/24/95 Signed TOLEDO EDISON CO. By 
Owner

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 ARKWRIGHT * of NORWOOD, MA. have inspected the components described in this Owners' Data Report during the period MAY 1993 to NOVEMBER 1994, 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 Owner's Date Report. Furthermore, neither the Inspector nor his employer shall be 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. 26 1995

Thomas H. Laps
Inspector's Signature

Commissions NB9330 "OHIO COMMISSION"
National Board, State, Province and No.

STEAM GENERATOR EDDY CURRENT EXAMINATION RESULTS

The tubing in the Once Through Steam Generators (OTSGs) at the Davis Besse Nuclear Power Station Unit #1 was examined in October, 1994 during the 9th Refueling Outage. The examinations were conducted by B&W Nuclear Technologies 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 Bobbin Coil, a Motorized Rotating Pancake Coil (MRPC), a Crosswound/Bobbin Coil, and a Rotating Crosswound Probe. The Bobbin Coil was used to perform the standard ASME Code examination for defect detection and sizing, the auxiliary feedwater header gap measurement, and profilometry of sleeve candidate tubes prior to sleeving. The MRPC technique was used to characterize indications reported by the bobbin coil technique by confirming the presence of the indication, clarifying the geometry of the indication, and when possible, assisting in the determination of flaw type. The Crosswound/Bobbin Coil was used to perform flaw detection in tube sleeves and in the parent tubing adjacent to the lower tube sleeve end. This technique was also used to perform profilometry of the sleeves rolled joints and to verify proper positioning of the sleeves after installation. The Rotating Crosswound Probe was used to perform flaw detection in the sleeve and parent tube in the area of the rolled joints.

Approximately 14.3% percent of the tubes in Steam Generator 1-1 were examined using the Bobbin Coil. All tubes were examined full length with the exception of one tube which did not require a full length examination. Seven tubes had indications of 20% or greater through wall. One tube had a 98% through wall indication and was subsequently plugged. One other tube, which had a 37% through wall indication, was plugged as a preventive measure. One Hundred seventy two tubes were examined to determine their proximity to the internal auxiliary feedwater header. One tube was determined to have a gap greater than the minimum 0.125 inches, but less than 0.250 inches. All other tubes were determined to have a gap greater than 0.250 inches.

Approximately 14.3% percent of the tubes in Steam Generator 1-2 were examined using the Bobbin Coil. All tubes were examined full length with the exception of three tubes. Two tubes were restricted by the data acquisitions system's positioning pins and one tube did not require a full length examination. The loss of examination coverage was limited to only a few inches near the tube end. Seven tubes had indications of 20% or greater through wall. None of these indications exceeded 40% through wall. However, one tube was plugged as a preventive measure. One Hundred sixty seven tubes were examined to determine their proximity to the internal auxiliary feedwater header. All tubes were determined to have a gap greater than 0.250 inches. One Hundred Ninety nine tubes, which were sleeved this outage, were examined and no indications in the tube sleeves were noted.

Detailed examination results are contained in the 9th Refueling Outage Steam Generator Eddy Current Inspection Report which is available for review in Toledo Edison's Records Management System.

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner TOLEDO EDISON COMPANY, 300 MADISON AVENUE., 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

MANUAL NDE EXAMINATIONS

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
REACTOR VESSEL	BABCOCK & WILCOX	620-0014-51,52	N/A	156
PRESSURIZER	BABCOCK & WILCOX	620-0014-59	N/A	157
OTSG 1-1	BABCOCK & WILCOX	620-0014-055-11	N/A	158
OTSG 1-2	BABCOCK & WILCOX	620-0014-055-12	N/A	159
CLASS 1 PIPING	BABCOCK & WILCOX	VARIOUS	N/A	N/A
CLASS 2 PIPING	BABCOCK & WILCOX	VARIOUS	N/A	N/A


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FORM NIS-1 (back)

8. Examination Dates MAY 1993 to NOV 1994 9. Inspection Interval from SEPT 1990 to SEPT 2000
10. Applicable Editions of Section XI 1986 Addenda NONE
11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.
SEE 1994 INSERVICE INSPECTION REPORT
12. Abstract of Conditions Noted.
SEE ATTACHED
13. Abstract of Corrective Measures Recommended and Taken
SEE ATTACHED

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

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 1/24/95 Signed TOLEDO EDISON CO. By 
Owner

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 ARKWRIGHT * of NORWOOD, MA. have inspected the components described in this Owners' Data Report during the period MAY 1993 to NOVEMBER 1994, 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 Owner's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date JAN. 26 1995

Thomas G. Laps
Inspector's Signature

Commissions NB9330 "OHIO COMMISSION"
National Board, State, Province and No.

* FACTORY MUTUAL ENGINEERING ASSOCIATION

NONDESTRUCTIVE EXAMINATIONS

The Nondestructive Examinations were completed by Toledo Edison and B&W Nuclear Technologies personnel from May, 1993 to November, 1994 during the 9th Operating Cycle and the 9th Refueling Outage for the Davis Besse Nuclear Power Station Unit #1. These examinations were conducted during the second period of the Second Inservice Inspection Interval.

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.

The attached table summarizes the preservice and inservice examination data for ASME Class 1 and 2 components. Four examinations revealed indications requiring further evaluation. Each were subsequently found acceptable. All other examination results were acceptable. An entry in the PCAQ Number column identifies the Potential Condition Adverse to Quality Report (PCAQR) used to evaluate and disposition indications.

Detailed examination results are contained in the 9th Refueling Outage Inservice Inspection Report which is available for review in Toledo Edison's Records Management System.

9RFO Inservice Inspection Summary
 Toledo Edison Company 300 Madison Avenue, Toledo, Ohio 43652
 Davis Besse Nuclear Power Station Unit #1
 Commercial Service Date: 11/21/77

01/06/95 14:47:13		Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 9th Refueling Outage					
Exam Category	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
Code Class 1							
B-B PRESSURE RETAINING WELDS IN VESSELS OTHER THAN REACTOR VESSELS							
B02.011 PRESSURIZER-CIRCUMFERENTIAL SHELL-TO-HEAD WELDS							
	RC-PZR-WP-76	UPPER HEAD TO SHELL WELD MK 5 TO MK 1	UT	Yes		10/13/94	
B02.012 PRESSURIZER-LONGITUDINAL SHELL-TO-HEAD WELDS							
	RC-PZR-WP-1	UPPER SHELL LONGSEAM WELD ADJACENT TO WELD WP-76 MK 1	UT	Yes		10/13/94	
B02.040 STEAM GENERATORS (PRIMARY SIDE)-TUBESHEET-TO-HEAD WELD							
	RC-SG-1-1-WG-58-1	UPPER HEAD TO TUBESHEET WELD MK 8 TO MK 51	UT	Yes		10/26/94	
B-D FULL PENETRATION WELDS OF NOZZLES IN VESSELS (INSPECTION PROGRAM B)							
B03.110 PRESSURIZER-NOZZLE-TO-VESSEL WELDS							
	RC-PZR-WP-33-W/X	3 IN. W/X AXIS RELIEF NOZZLE TO UPPER HEAD WELD MK 1/4 TO MK 5	UT MT	Yes Yes		10/28/94 10/20/94	THE MT EXAMINATION WAS USED TO SUPPLEMENT THE UT EXAMINATION.
	RC-PZR-WP-33-Z/W	2.5 IN. Z/W AXIS RELIEF NOZZLE TO UPR. HEAD WELD MK 31 TO MK 5	UT MT	Yes Yes		10/28/94 10/20/94	THE MT EXAMINATION WAS USED TO SUPPLEMENT THE UT EXAMINATION.

01/06/95

14:47:13

Exam Category

Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations

9th Refueling Outage

Exam Category	Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
	RC-PZR-WP-34		4 IN. SPRAY NOZZLE TO UPPER HEAD WELD MK 9 TO MK 5	UT MT	Yes Yes		10/28/94 10/20/94	THE MT EXAMINATION WAS USED TO SUPPLEMENT THE UT EXAMINATION.
B03.120	PRESSURIZER-NOZZLE INSIDE RADIUS SECTION							
	RC-PZR-WP-33-W/X-IR		3 IN. W/X AXIS RELIEF NOZZLE INSIDE RADIUS MK 124	UT	Yes		10/28/94	
	RC-PZR-WP-33-Z/W-IR		2.5 IN. Z/W AXIS RELIEF NOZZLE INSIDE RADIUS MK 31	UT	Yes		10/28/94	
	RC-PZR-WP-34-IR		4 IN. SPRAY NOZZLE INSIDE RADIUS MK 9	UT	Yes		10/28/94	
B03.130	STEAM GENERATORS (PRIMARY SIDE)-NOZZLE-TO-VESSEL WELDS							
	RC-SG-1-2-WG-50-Y/Z		28 IN. Y/Z AXIS OUTLET NOZZLE TO LOWER HEAD WELD MK 65 TO MK 7	UT	Yes		10/25/94	
	RC-SG-1-2-WG-50-Z/W		28 IN. Z/W AXIS OUTLET NOZZLE TO LOWER HEAD WELD MK 65 TO MK 7	UT	Yes		10/25/94	
B03.140	STEAM GENERATORS (PRIMARY SIDE)-NOZZLE INSIDE RADIUS SECTION							
	RC-SG-1-2-WG-50-Y/Z-IR		28 IN. Y/Z AXIS OUTLET NOZZLE INSIDE RADIUS MK 65	UT	Yes		10/25/94	
	RC-SG-1-2-WG-50-Z/W-IR		28 IN. Z/W AXIS OUTLET NOZZLE INSIDE RADIUS MK 65	UT	Yes		10/25/94	

9RFO Inservice Inspection Summary
 Toledo Edison Company 300 Madison Avenue, Toledo, Ohio 43652
 Commercial Service Date: 11/21/77

Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 9th Refueling Outage								
Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments	
B-F PRESSURE RETAINING DISSIMILAR METAL WELDS								
B05.040		PRESSURIZER-NOZZLE-TO-SAFE END BUTT WELDS >= 4 INCHES NOMINAL PIPE SIZE						
	RC-PZR-WP-102	4 IN. SPRAY NOZZLE TO SAFE END WELD MK 9 TO MK 45	UT PT	Yes Yes		10/26/94 10/13/94		
B05.050		PRESSURIZER-NOZZLE-TO-SAFE END BUTT WELDS < 4 INCHES NOMINAL PIPE SIZE						
	RC-PZR-WP-91-Z/W	2.5 IN. Z/W AXIS RELIEF NOZZLE TO SAFE END WELD MK 31 TO MK 32	PT	Yes		10/13/94		
B05.130		PIPING-DISSIMILAR METAL BUTT WELDS >= 4 INCHES NOMINAL PIPE SIZE						
	RC-MK-A-67-2-FW134A	28 IN. ELBOW TO RC PUMP INLET NOZZLE WELD	UT PT	Yes Yes		10/22/94 10/20/94		
	RC-MK-A-82-FW54	10 IN. BRANCH CONNECTION TO PIPE WELD MK 25 TO MK 140	UT PT	Yes Yes		10/25/94 10/20/94		
	RC-MK-A-90-FW56	4 IN. PIPE TO SAFE END WELD MK 90 TO MK 45	UT PT	Yes Yes		10/12/94 10/10/94		
B05.140		PIPING-DISSIMILAR METAL BUTT WELDS < 4 INCHES NOMINAL PIPE SIZE						
	RC-MK-B-56-1-FW10B	2.5 IN. SAFE END TO HPI NOZZLE WELD MK 47 TO MK 46	PT	Yes		10/13/94		
	RC-MK-B-61-1-FW17B	2.5 IN. SAFE END TO HPI NOZZLE WELD MK 47 TO MK 46	PT	Yes		10/13/94		

01/06/95 14:47:13 Exam Category		Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 9th Refueling Outage					
Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
B-G-1 PRESSURE RETAINING BOLTING GREATER THAN 2 INCHES IN DIAMETER							
B06.010 REACTOR VESSEL-CLOSURE HEAD NUTS							
	RC-RPV-NUT-021	CLOSURE HEAD NUT (HOLE NO. 21) MK 26	MT	Yes		10/20/94	
	RC-RPV-NUT-022	CLOSURE HEAD NUT (HOLE NO. 22) MK 26	MT	Yes		10/20/94	
	RC-RPV-NUT-023	CLOSURE HEAD NUT (HOLE NO. 23) MK 26	MT	Yes		10/20/94	
	RC-RPV-NUT-024	CLOSURE HEAD NUT (HOLE NO. 24) MK 26	MT	Yes		10/20/94	
	RC-RPV-NUT-025	CLOSURE HEAD NUT (HOLE NO. 25) MK 26	MT	Yes		10/20/94	
	RC-RPV-NUT-026	CLOSURE HEAD NUT (HOLE NO. 26) MK 26	MT	Yes		10/20/94	
	RC-RPV-NUT-027	CLOSURE HEAD NUT (HOLE NO. 27) MK 26	MT	Yes		10/20/94	
	RC-RPV-NUT-028	CLOSURE HEAD NUT (HOLE NO. 28) MK 26	MT	Yes		10/20/94	

9RFO Inservice Inspection Summary
 Toledo Edison Company 300 Madison Avenue, Toledo, Ohio 43652
 Commercial Service Date: 11/21/77

016695 14:47:13 Exam Category		Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 9th Refueling Outage			
Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number
					Exam Date
					Comments
RC-RPV-NUT-029		CLOSURE HEAD NUT (HOLE NO. 29) MK 26	MT	Yes	10/20/94
RC-RPV-NUT-030		CLOSURE HEAD NUT (HOLE NO. 30) MK 26	MT	Yes	10/20/94
B06 030 REACTOR VESSEL CLOSURE STUDS, WHEN REMOVED					
RC-RPV-STUD-021		CLOSURE HEAD STUD (HOLE NO. 21) MK 25	UT MT	Yes Yes	10/20/94 10/20/94
RC-RPV-STUD-022		CLOSURE HEAD STUD (HOLE NO. 22) MK 25	UT MT	Yes Yes	10/20/94 10/20/94
RC-RPV-STUD-023		CLOSURE HEAD STUD (HOLE NO. 23) MK 25	UT MT	Yes Yes	10/20/94 10/20/94
RC-RPV-STUD-024		CLOSURE HEAD STUD (HOLE NO. 24) MK 25	UT MT	Yes Yes	10/20/94 10/20/94
RC-RPV-STUD-025		CLOSURE HEAD STUD (HOLE NO. 25) MK 25	UT MT	Yes Yes	10/20/94 10/20/94

01/06/95

14:47:13

Exam Category

Code Item

Mark Number

Component Description

NDE Method

Examination
Acceptable

PCAQ
Number

Exam Date

Comments

Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations

9th Refueling Outage

RC-RPV-STUD-026 CLOSURE HEAD STUD (HOLE NO. 26) MK 25

UT

Yes

10/20/94

MT

Yes

10/20/94

RC-RPV-STUD-027 CLOSURE HEAD STUD (HOLE NO. 27) MK 25

UT

Yes

10/20/94

MT

Yes

10/20/94

RC-RPV-STUD-028 CLOSURE HEAD STUD (HOLE NO. 28) MK 25

UT

Yes

10/20/94

MT

Yes

10/20/94

RC-RPV-STUD-029 CLOSURE HEAD STUD (HOLE NO. 29) MK 25

UT

Yes

10/20/94

MT

Yes

10/20/94

RC-RPV-STUD-030 CLOSURE HEAD STUD (HOLE NO. 30) MK 25

UT

Yes

10/20/94

MT

Yes

10/20/94

B06.040 REACTOR VESSEL-THREADS IN FLANGE

RC-RPV-FLNG-THRD VESSEL FLANGE THREADS MK 7 (QTY. 60)

UT

Yes

10/26/94

HOLES 40 THRU 60
EXCLUDING HOLE 45
WERE SCANNED.

9RFO Inservice Inspection Summary
 Toledo Edison Company 300 Madison Avenue, Toledo, Ohio 43652
 Commercial Service Date: 11/11/77

0106695 14-47-13 Exam Category Code Item	Mark Number	Component Description	Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 9th Refueling Outage			PCAQ Number	Exam Date	Comments
			NDE Method	Examination Acceptable				
B06 050		REACTOR VESSEL CLOSURE WASHERS, BUSHINGS						
	RC-RPV-WASHERS-021	CLOSURE HEAD WASHERS (HOLE NO. 21) MK 14/MK 27	VT-1	Yes			10/20/94	
	RC-RPV-WASHERS-022	CLOSURE HEAD WASHERS (HOLE NO. 22) MK 14/MK 27	VT-1	Yes			10/20/94	
	RC-RPV-WASHERS-023	CLOSURE HEAD WASHERS (HOLE NO. 23) MK 14/MK 27	VT-1	Yes			10/20/94	
	RC-RPV-WASHERS-024	CLOSURE HEAD WASHERS (HOLE NO. 24) MK 14/MK 27	VT-1	Yes			10/20/94	
	RC-RPV-WASHERS-025	CLOSURE HEAD WASHERS (HOLE NO. 25) MK 14/MK 27	VT-1	Yes			10/20/94	
	RC-RPV-WASHERS-026	CLOSURE HEAD WASHERS (HOLE NO. 26) MK 14/MK 27	VT-1	Yes			10/20/94	
	RC-RPV-WASHERS-027	CLOSURE HEAD WASHERS (HOLE NO. 27) MK 14/MK 27	VT-1	Yes			10/20/94	
	RC-RPV-WASHERS-028	CLOSURE HEAD WASHERS (HOLE NO. 28) MK 14/MK 27	VT-1	Yes			10/20/94	

01/06/95

14:47:13

Exam Category

Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations

9th Refueling Outage

Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
RC-RPV-WASHERS-029		CLOSURE HEAD WASHERS (HOLE NO. 29) MK 14/MK 27	VT-1	Yes		10/20/94	
RC-RPV-WASHERS-030		CLOSURE HEAD WASHERS (HOLE NO. 30) MK 14/MK 27	VT-1	Yes		10/20/94	
B06.060	PRESSURIZER-BOLTS AND STUDS						
RC-PZR-STUD-5		2.75 IN. 8UN-2A MANWAY STUD MK 67	UT	Yes		10/10/94	
RC-PZR-STUD-6		2.75 IN. 8UN-2A MANWAY STUD MK 67	UT	Yes		10/10/94	
RC-PZR-STUD-7		2.75 IN. 8UN-2A MANWAY STUD MK 67	UT	Yes		10/10/94	
RC-PZR-STUD-8		2.75 IN. 8UN-2A MANWAY STUD MK 67	UT	Yes		10/10/94	
B06.080	PRESSURIZER-NUTS, BUSHINGS, AND WASHERS						
RC-PZR-NUT-5		2.75 IN. 8UN-2B MANWAY NUT MK 68	VT-1	Yes		10/10/94	
RC-PZR-NUT-6		2.75 IN. 8UN-2B MANWAY NUT MK 68	VT-1	Yes		10/10/94	
RC-PZR-NUT-7		2.75 IN. 8UN-2B MANWAY NUT MK 68	VT-1	Yes		10/10/94	

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	RC-PZR-NUT-8	2.75 IN. RUN-2B MANWAY NUT MK 68	VT-1	Yes			10/10/94	
B-G-2		PRESSURE RETAINING BOLTING, 2 INCHES AND LESS IN DIAMETER						
B07.020		PRESSURIZER-BOLTS, STUDS, AND NUTS						
	RC-PZR-HTR-BNDL-2-BLTG	16 - 2 IN. HEATER BELT STUDS/NUTS MK 75, MK 76	VT-1	Yes			10/12/94	
B07.050		PIPING-BOLTS, STUDS, AND NUTS						
	RC-HEAD VENT-FLANGE	12 - 1 IN. STUDS AND NUTS (FLANGE CONNECTION NO. 5)	VT-1	Yes			10/12/94	
	RC-RC2-BLTG-5	8 - 1.125 IN. STUDS AND NUTS (FLANGE CONNECTION NO. 5)	VT-1	Yes			10/07/94	
B07.080		CRD HOUSINGS-BOLTS, STUDS, AND NUTS						
	RC-RPV-CRD-B47-18-BLTG	CRD HOUSING FLANGE BOLTING (HOUSING ASSY B47-18)	VT-1	Yes			10/16/94	PRESERVICE EXAMINATION
	RC-RPV-CRD-B47-20-BLTG	CRD HOUSING FLANGE BOLTING (HOUSING ASSY B47-20)	VT-1	Yes			10/16/94	PRESERVICE EXAMINATION
	RC-RPV-CRD-B47-21-BLTG	CRD HOUSING FLANGE BOLTING (HOUSING ASSY B47-21)	VT-1	Yes			10/16/94	PRESERVICE EXAMINATION

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RC-RPV-CRD-B49-28-BLTG		CRD HOUSING FLANGE BOLTING (HOUSING ASSY B49-28)	VT-1	Yes		10/16/94	PRESERVICE EXAMINATION
RC-RPV-CRD-B51-44-BLTG		CRD HOUSING FLANGE BOLTING (HOUSING ASSY B51-44)	VT-1	Yes		10/16/94	PRESERVICE EXAMINATION
RC-RPV-CRD-B53-52-BLTG		CRD HOUSING FLANGE BOLTING (HOUSING ASSY B53-52)	VT-1	Yes		10/16/94	PRESERVICE EXAMINATION
RC-RPV-CRD-B53-54-BLTG		CRD HOUSING FLANGE BOLTING (HOUSING ASSY B53-54)	VT-1	Yes		10/16/94	PRESERVICE EXAMINATION
RC-RPV-CRD-B53-56-BLTG		CRD HOUSING FLANGE BOLTING (HOUSING ASSY B53-56)	VT-1	Yes		10/16/94	PRESERVICE EXAMINATION

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B-J PRESSURE RETAINING WELDS IN PIPING							
B09.011 CIRCUMFERENTIAL PIPE WELDS \geq 4 IN. NOMINAL PIPE SIZE							
CF-33B-CCA-6-6-SWA	10 IN. ELBOW TO PIPE WELD		UT	Yes		10/26/94	
			PT	Yes		10/26/94	
DH-33A-CCA-4-1-SWF	12 IN. PIPE TO ELBOW WELD		UT	Yes		10/13/94	
			PT	Yes		10/12/94	
RC-MK-A-24-1-SW125A	36 IN. ELBOW TO PIPE WELD MK 1 TO MK 36		UT	Yes		10/22/94	
			MT	Yes		10/20/94	
RC-MK-A-67-1-SW61A	28 IN. ELBOW TO PIPE WELD MK 45 TO MK 67		UT	Yes		10/22/94	
			MT	Yes		10/19/94	
RC-MK-A-81-FW2	10 IN. ELBOW TO SAFE END WELD MK 80 TO MK 37 (WJ-3-3)		UT	Yes		10/12/94	
			PT	Yes		10/11/94	

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B09.012 LONGITUDINAL PIPE WELDS >= 4 IN. NOMINAL PIPE SIZE							
RC-MK-A-24-1-SW125A-LU-1		36 IN. ELBOW LONGSEAM WELD UPSTREAM - IN. RADIUS MK 1	UT	Yes		10/21/94	
			MT	Yes		10/20/94	
RC-MK-A-24-1-SW125A-LU-2		36 IN. ELBOW LONGSEAM WELD UPSTREAM - OUT. RADIUS MK 1	UT	Yes		10/21/94	
			MT	Yes		10/20/94	
RC-MK-A-67-1-SW61A-LU-1		28 IN. ELBOW LONGSEAM WELD UPSTREAM - IN. RADIUS MK 45	UT	Yes		10/20/94	
			MT	Yes		10/19/94	
RC-MK-A-67-1-SW61A-LU-2		28 IN. ELBOW LONGSEAM WELD UPSTREAM - OUT. RADIUS MK 45	UT	Yes		10/20/94	
			MT	Yes		10/19/94	
RC-MK-A-67-2-FW134A-LU-1		28 IN. ELBOW LONGSEAM WELD UPSTREAM - IN. RADIUS MK 62	UT	Yes		10/24/94	
			MT	Yes		10/19/94	
RC-MK-A-67-2-FW134A-LU-2		28 IN. ELBOW LONGSEAM WELD UPSTREAM - OUT. RADIUS MK 62	UT	Yes		10/20/94	
			MT	Yes		10/19/94	

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B09.021 CIRCUMFERENTIAL PIPE WELDS < 4 IN. NOMINAL PIPE SIZE

MU-31-CCA-18-1-FW26 2.5 IN. PIPE TO VALVE MU1B WELD

PT

Yes

10/26/94

MU-31-CCA-18-1-SWC 2.5 IN. PIPE TO ELBOW WELD

PT

Yes

10/20/94

RC-FSK-M-CCA-7-1-FW1 1.5 IN. PIPE TO TEE WELD

PT

Yes

10/13/94

RC-MK-134-FW39 2.5 IN. VALVE HV-RC10 TO PIPE WELD MK 134

PT

Yes

10/16/94

PRESERVICE
EXAMINATION

RC-MK-A-103-FW27 2.5 IN. VALVE HV-RC2 TO PIPE WELD RC2 TO MK 103

PT

Yes

10/07/94

RC-MK-A-103-FW38 2.5 IN. PIPE TO VALVE HV-RC10 WELD RC10 TO MK 103

PT

Yes

10/16/94

PRESERVICE
EXAMINATION

RC-MK-A-139-SW49 2.5 IN. TEE TO PIPE WELD MK 131 TO MK 132

PT

Yes

10/07/94

RC-MK-A-90-SW53 2.5 IN. PIPE TO REDUCER WELD MK 92 TO MK 109

PT

Yes

10/10/94

RC-MK-A-93-SW51 2.5 IN. PIPE TO ELBOW WELD MK 93 TO MK 98

PT

Yes

10/10/94

RC-MK-A-95-FW14 2.5 IN. ELBOW TO PIPE WELD MK 98 TO MK 94

PT

Yes

10/14/94

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B09.031 BRANCH CONNECTION WELDS >= 4 IN. NOMINAL PIPE SIZE							
RC-MK-A-33-1-DHA	36 IN. ELBOW TO 12 IN. BRANCH CONNECTION WELD MK 31 TO MK 34 (WJ-55)	UT	Yes	10/25/94			
RC-MK-A-33-1-SNA	36 IN. PIPE TO 10 IN. BRANCH CONNECTION WELD MK 144 TO MK 25 (WJ-63)	UT	Yes	10/25/94			
RC-MK-A-67-1-DN3	28 IN. PIPE TO 2.5 IN. DRAIN NOZZLE WELD MK 67 TO MK 9 (WJ-72)	UT	Yes	10/22/94			
		MT	Yes	10/19/94			
RC-MK-B-61-1-IN3	HPI NOZZLE TO 28 IN. PIPE WELD MK 46 TO MK 61 (WJ-72)	UT	Yes	10/22/94			
		MT	Yes	10/19/94			
B09.040 SOCKET WELDS							
RC-FSK-M-CCA-7-1-FW33	1.5 IN. PIPE TO ELBOW WELD	PT	Yes	10/13/94			
RC-FSK-M-CCA-7-1-FW41	1.5 IN. ELBOW TO PIPE WELD	PT	Yes	10/13/94			

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B-K-1 INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES

B10.010 PIPING-INTEGRALLY WELDED ATTACHMENTS

RC-MK-A-95-F3-H16-AW VARIABLE SPRING SUPPORT ATTACHMENT WELD

PT

Yes

10/15/94

B-O PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS

B14.010 REACTOR VESSEL WELDS IN CONTROL ROD DRIVE HOUSINGS

RC-RPV-CRD-W60-B53-54 MOTOR TUBE EXTENSION TO MOTOR TUBE CENTER SECTION (HOUSING ASSEMBLY B53-54)

PT

Yes

10/20/94

RC-RPV-CRD-W61-B53-54 MOTOR TUBE CAP TO MOTOR TUBE EXTENSION (HOUSING ASSEMBLY B53-54)

PT

Yes

10/20/94

RC-RPV-CRD-W73-B53-54 MOTOR TUBE CENTER SECTION TO CRDM BASE (HOUSING ASSEMBLY B53-54)

PT

Yes

10/20/94

RC-RPV-CRD-WH-9-B53-54 CRD HOUSING WELD (HOUSING ASSY B53-54) MK 53 TO MK 67

PT

Yes

10/20/94

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Mark Number		Component Description		NDE Method							
Code Class 2											
C-A		PRESSURE RETAINING WELDS IN PRESSURE VESSELS									
C01.010		SHELL CIRCUMFERENTIAL WELDS									
SP-SG-1-1-WG-8-1		SHELL TO SHELL WELD MK 1 TO MK 2		UT		Yes		10/19/94			
SP-SG-1-2-WG-8-3		NOZZLE BELT TO SHELL WELD MK 3 TO MK 2		UT		Yes		10/28/94			
C01.030		TUBESHEET-TO-SHELL WELDS									
SP-SG-1-1-WG-60		UPPER TUBESHEET TO SHELL WELD MK 51 TO MK 1		UT		Yes		10/26/94			
SP-SG-1-2-WG-59		SHELL TO LOWER TUBESHEET WELD MK 6 TO MK 50		UT		Yes		10/26/94			
C-B		PRESSURE RETAINING NOZZLE WELDS IN VESSELS									
C02.021		NOZZLE-TO-SHELL (OR HEAD) WELD > 1/2 IN. NOMINAL THICKNESS WITHOUT REINFORCING PLATE									
SP-SG-1-2-MK-300 TO MK-1		6 IN. AFW NOZZLE TO SHELL WELD MK 300 TO MK 1		UT MT		Yes Yes		10/19/94 10/19/94			
C02.031		REINFORCING PLATE WELDS TO NOZZLE AND VESSEL > 1/2 IN. NOMINAL THICKNESS									
DH-COOLER-1-1-WELD 1		INLET NOZZLE REINFORCING PLATE TO SHELL WELD		PT		Yes		09/22/94			

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C02.033 NOZZLE-TO-SHELL (OR HEAD) WELDS WHEN INSIDE OF WELD IS INACCESSIBLE > 1/2 IN. NOMINAL THICKNESS

DH-COOLER-1-1-INLET INLET NOZZLE TO SHELL WELD (INACCESSIBLE)

VT-2

Yes

09/27/94

DH-COOLER-1-1-OUTLET OUTLET NOZZLE TO SHELL WELD (INACCESSIBLE)

VT-2

Yes

09/27/94

C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES

C03.020 PIPING-INTEGRALLY WELDED ATTACHMENTS

HP-33C-CCB-2-H24-AW 4 IN. PIPE SUPPORT ATTACHMENT WELD

PT

Yes

09/20/94

HP-ANCHOR-A056-AW 2.5 IN. ANCHOR ATTACHMENT WELD

PT

Yes

09/26/94

MS-3A-EBB-1-14-SR3-AW 26 IN. PIPE SUPPORT ATTACHMENT WELD

PT

Yes

10/15/94

C03.20A THIN WALL PIPING INTEGRALLY WELDED ATTACHMENTS

CS-34-GCB-5-H21-AW 8 IN. PIPE SUPPORT ATTACHMENT WELD

PT

Yes

09/28/94

CS-34-GCB-5-H23-AW 8 IN. PIPE SUPPORT ATTACHMENT WELD

PT

Yes

09/28/94

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CS-34-GCB-5-H27-AW		8 IN. PIPE SUPPORT ATTACHMENT WELD	PT	Yes		09/20/94	
DH-33A-HCB-2-H25-AW		14 IN. PIPE SUPPORT ATTACHMENT WELD	PT	Yes		09/28/94	
DH-33B-GCB-1-H19-AW		10 IN. PIPE SUPPORT ATTACHMENT WELD	PT	Yes		09/20/94	
DH-33B-GCB-1-H2-AW		10 IN. PIPE SUPPORT ATTACHMENT WELD	PT	Yes		09/22/94	
HP-33C-GCB-11-H2-AW		RIGID SUPPORT ATTACHMENT WELD	PT	Yes		10/14/94	
C-D PRESSURE RETAINING BOLTING GREATER THAN 2 INCHES IN DIAMETER							
C04.030 PUMPS-BOLTS AND STUDS							
HP-PUMP-1-2-STUD-003		2.25 IN. DIA. PUMP COVER TO CASE STUD AT HOLE NO. 3	UT	Yes		10/14/94	
HP-PUMP-1-2-STUD-005		2.25 IN. DIA. PUMP COVER TO CASE STUD AT HOLE NO. 5	UT	Yes		10/14/94	
HP-PUMP-1-2-STUD-007		2.25 IN. DIA. PUMP COVER TO CASE STUD AT HOLE NO. 7	UT	Yes		10/14/94	

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HP-PUMP-1-2-STUD-010	2.25 IN. DIA. PUMP COVER TO CASE STUD AT HOLE NO. 10		UT	Yes		10/14/94	
HP-PUMP-1-2-STUD-015	2.25 IN. DIA. PUMP COVER TO CASE STUD AT HOLE NO. 15		UT	Yes		10/14/94	
HP-PUMP-1-2-STUD-017	2.25 IN. DIA. PUMP COVER TO CASE STUD AT HOLE NO. 17		UT	Yes		10/14/94	
HP-PUMP-1-2-STUD-020	2.25 IN. DIA. PUMP COVER TO CASE STUD AT HOLE NO. 20		UT	Yes		10/14/94	
C-F-1 PRESSURE RETAINING WELDS IN AUSTENITIC STAINLESS STEEL OR HIGH ALLOY PIPING							
C05.021 CIRCUMFERENTIAL PIPE WELDS > 1/5 IN. NOMINAL WALL THICKNESS							
HP-33C-CCB-2-30-SWF	2.5 IN. ELBOW TO PIPE WELD		UT	Yes		10/14/94	
			PT	Yes		10/12/94	
HP-33C-CCB-2-36-FW14	2.5 IN. ELBOW TO PIPE WELD		UT	Yes		09/28/94	
			PT	Yes		09/26/94	
HP-33C-CCB-2-8-SWD	4 IN. PIPE TO TEE WELD		UT	Yes		09/26/94	
			PT	Yes		09/20/94	

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C05.11A CIRCUMFERENTIAL PIPE WELD < 3/8 IN. & > 1/5 IN. NOMINAL WALL THICKNESS FOR PIPING > NPS 4							
CS-34-GCB-5-2-FW6	8 IN. ELBOW TO VALVE HV-1531 WELD		UT	Yes		09/29/94	
			PT	Yes		09/28/94	
CS-34-GCB-5-5-SWC	8 IN. PIPE TO ELBOW WELD		UT	Yes		09/28/94	
			PT	Yes		09/27/94	
DH-33A-GCB-7-11-SWA	12 IN. ELBOW TO PIPE WELD		UT	Yes		09/26/94	
			PT	Yes		09/21/94	
DH-33A-GCB-7-8-SWF	10 IN. ELBOW TO REDUCING TEE WELD		UT	Yes		09/21/94	
			PT	Yes		09/20/94	
DH-33B-GCB-10-19-SWH	10 IN. PIPE TO ELBOW WELD		UT	Yes		09/26/94	
			PT	Yes		09/26/94	
DH-33B-GCB-10-20-FW62	8 IN. PIPE TO TEE WELD		UT	Yes		09/22/94	
			PT	Yes		09/22/94	
DH-33B-GCB-10-21-FW66	8 IN. VALVE HV830 TO PIPE WELD		UT	Yes		09/23/94	

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DH-33B-GCB-10-22-FW67	10 X 8 TEE TO ELBOW WELD	UT	Yes		09/22/94	
DH-33B-GCB-10-7-SWC	8 IN. ELBOW TO PIPE WELD	UT	Yes		09/21/94	
		PT	Yes		09/20/94	
C05.11B	CIRCUMFERENTIAL PIPE WELD <= 1/5 IN. NOMINAL WALL THICKNESS FOR PIPING > NPS 4					
DH-33A-HCB-2-19-FW11	14 IN. PIPE TO ELBOW WELD	PT	Yes		09/22/94	
DH-33B-GCB-1-6-SWD	6 IN. PIPE TO ELBOW WELD	PT	Yes		09/22/94	
C05.21A	CIRCUMFERENTIAL PIPE WELD < 1/5 IN. NOMINAL WALL THICKNESS FOR PIPING >= NPS 2 AND <= NPS 4					
HP-4-GCB-11-FW74	4 IN. ELBOW TO VALVE MU6405 WELD	PT	Yes		09/27/94	
C-F-2	PRESSURE RETAINING WELDS IN CARBON OR LOW ALLOY STEEL PIPING					
C05.051	CIRCUMFERENTIAL PIPE WELDS >= 3/8 IN. NOMINAL WALL THICKNESS FOR PIPING > NPS 4					
AF-6C-EBB-4-4-FW6A	6 IN. PENETRATION NO. 35 FLUED HEAD TO PIPE WELD	UT	Yes		10/20/94	
		MT	Yes		10/20/94	
AF-ISIM2 206N-FW46	6 IN. AUX. FEEDWATER NOZZLE SAFE END TO BLIND FLANGE WELD	UT	Yes		10/19/94	
		MT	Yes		10/18/94	

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FW-7-EBB-3-1-FW29		18 IN. VALVE HV612 TO ELBOW WELD	UT MT	Yes Yes	10/05/94 10/04/94
MS-3A-EBB-1-28-SWD		6 IN. SPECIAL FORGING TO FLANGE WELD	UT MT	Yes Yes	10/10/94 10/10/94
C05.081 CIRCUMFERENTIAL WELD IN PIPE BRANCH CONNECTIONS OF BRANCH PIPING -> NPS 2					
MS-3A-EBB-1-28-SWX		36 IN. PIPE TO 6 IN. SPECIAL FORGING WELD	MT	Yes	10/10/94
C05.51A CIRCUMFERENTIAL PIPE WELDS < 3/8 IN. NOMINAL WALL THICKNESS FOR PIPING > NPS 4					
MS-3A-EBB-2-2-SWA		6 IN. ELBOW TO PIPE WELD	UT MT	Yes Yes	10/10/94 10/10/94
MS-3A-EBB-2-6-SWB		6 IN. PIPE TO ELBOW WELD	UT MT	Yes Yes	10/03/94 10/04/94
MS-3A-EBB-2-8-FW12		6 IN. PIPE TO ELBOW WELD	UT MT	Yes Yes	10/06/94 10/06/94

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C-G		PRESSURE RETAINING WELDS IN PUMPS AND VALVES					
C06.010		PUMPS-PUMP CASING WELDS					
		HP-PUMP-1-1-WELD C 6 IN. SUCTION NOZZLE TO CASING HEAD WELD	PT	Yes		09/20/94	
C06.020		VALVES-VALVE BODY WELDS					
		MS-FV-4CS11A-WELD G VALVE ICS11A BODY WELD	MT	Yes		10/06/94	
Code Class 1							
F-A		SUPPORTS					
F01.010		CLASS 1 PIPING SUPPORTS					
		DH-33C-OCA-4-H10 NONWELDED HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		10/15/94	Relief Request RR-A9 is applicable.
		RC-30-OCA-8-H4 HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		10/07/94	Relief Request RR-A9 is applicable.
		RC-FSK-M-OCA-7-1-PS-H25 HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		10/10/94	Relief Request RR-A9 is applicable. POST HEATUP EXAMINATION

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RC-FSK-M-CCA-7-1-PS-H26		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		10/10/94	Relief Request RR-A9 is applicable. POST HEATUP EXAMINATION
RC-M1170-H1		RIGID SUPPORT	VT-3	Yes		10/26/94	Relief Request RR-A9 is applicable.
RC-M1170-H14		DOUBLE HYDRAULIC SNUBBER SUPPORT	VT-3 VT-3	No Yes	94-0944	10/12/94 11/03/94	Relief Request RR-A9 is applicable. POST HEATUP EXAMINATION. LOOSE LOCKING NUT - ACCEPTABLE. NUT TIGHTENED AND PRESERVICE EXAMINATION PERFORMED.
RC-M1170-H2		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		11/01/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-M1170-H3		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		11/01/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-M1170-H4		RIGID SUPPORT/HYDRAULIC SNUBBER	VT-3	Yes		11/01/94	Relief Request RR-A9 is applicable. PRESERVICE EXAM

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Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations

9th Refueling Outage

Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
RC-MK-A-103-PS-H37		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		11/01/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-MK-A-108-PS-H8		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		10/12/94	Relief Request RR-A9 is applicable. POST HEATUP EXAMINATION
RC-MK-A-112-PS-H4		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		10/12/94	Relief Request RR-A9 is applicable. POST HEATUP EXAMINATION
RC-MK-A-112-PS-H5		VARIABLE SPRING SUPPORT	VT-3	Yes		11/12/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-MK-A-135-PS-H22		VARIABLE SPRING SUPPORT	VT-3 VT-3	Yes Yes		10/07/94 11/12/94	Relief Request RR-A9 is applicable. 10/07/94 EXAMINATION WAS A POST HEATUP EXAMINATION. 11/12/94 EXAMINATION WAS A PRESERVICE EXAMINATION.

01/06/95

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Exam Category

Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations

9th Refueling Outage

Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
RC-MK-A-135-PS-H29		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		11/01/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-MK-A-135-PS-H31		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		11/01/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-MK-A-135-PS-H35		VARIABLE SPRING SUPPORT	VT-3	Yes		11/12/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-MK-A-135-PS-H36		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		11/01/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-MK-A-82-PSU-H1		VARIABLE SPRING SUPPORT	VT-3	Yes		11/12/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION

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Exam Category

Code Item

Mark Number

Component Description

NDE Method

Examination
Acceptable

PCAQ
Number

Exam Date

Comments

Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations
 9th Refueling Outage

RC-MK-A-83-PSU-R1	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		11/03/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-MK-A-83-PSU-R2	HYDRAULIC SNUBBER SUPPORT	VT-3 VT-3	Yes Yes		10/11/94 11/03/94	Relief Request RR-A9 is applicable. 11/03/94 EXAMINATION WAS A PRESERVICE EXAMINATION.
RC-MK-A-93-PS-H23	VARIABLE SPRING SUPPORT	VT-3	Yes		11/12/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-MK-A-93-PS-H33	VARIABLE SPRING SUPPORT	VT-3	Yes		11/12/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
RC-MK-A-95-PS-H16	VARIABLE SPRING SUPPORT	VT-3	Yes		10/14/94	Relief Request RR-A9 is applicable.
RC-MK-A-96-PS-H2	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		10/12/94	Relief Request RR-A9 is applicable. POST HEATUP EXAMINATION

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Exam Category

Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations

9th Refueling Outage

Code Item

Mark Number

Component Description

NDE Method

Examination
Acceptable

PCAQ
Number

Exam Date

Comments

Code Class 2

P01.020 CLASS 2 PIPING SUPPORTS

AF-6C-EBB-4-H16

RIGID SUPPORT

VT-3

Yes

10/12/94

Relief Request RR-A9
is applicable.

FW-7-EBB-3-7-SR24C

HYDRAULIC SNUBBER SUPPORT

VT-3

Yes

11/01/94

Relief Request RR-A9
is applicable.
PRESERVICE
EXAMINATION

FW-7-EBB-3-7-SR25C

HYDRAULIC SNUBBER SUPPORT

VT-3

Yes

11/01/94

Relief Request RR-A9
is applicable.
PRESERVICE
EXAMINATION

HP-ANCHOR-A047

SEISMIC ANCHOR

VT-3

Yes

09/26/94

Relief Request RR-A9
is applicable.

MS-3A-EBB-1-10-SR1

HYDRAULIC SNUBBER SUPPORT

VT-3

Yes

10/28/94

Relief Request RR-A9
is applicable.
PRESERVICE
EXAMINATION

9RFO Inservice Inspection Summary
 Toledo Edison Company 300 Madison Avenue, Toledo, Ohio 43652
 Commercial Service Date: 11/21/77

01/06/95 14:47:13 Exam Category Code Item		Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 9th Refueling Outage				PCAQ Number		Exam Date		Comments	
Mark Number		Component Description		NDE Method		Examination Acceptable					
MS-3A-EBB-1-14-SR3		HYDRAULIC SNUBBER SUPPORT		VT-3		Yes		10/19/94		Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION	
MS-3A-EBB-1-15-SR4		HYDRAULIC SNUBBER SUPPORT		VT-3		Yes		10/28/94		Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION	
MS-3A-EBB-1-19-C282-SEC-A		SEISMIC ANCHOR SUPPORT		VT-3		Yes		09/28/94		Relief Request RR-A9 is applicable.	
MS-3A-EBB-1-28-SR48		HYDRAULIC SNUBBER SUPPORT		VT-3		Yes		10/07/94		Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION	
MS-3A-EBB-1-6-SR4		HYDRAULIC SNUBBER SUPPORT		VT-3		Yes		11/01/94		Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION	

01/06/95 14:47:13 Exam Category Code Item		Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 9th Refueling Outage		Examination Acceptable		PCAQ Number		Exam Date		Comments	
Mark Number		Component Description		NDE Method							
MS-3A-EBB-1-8-SR8		HYDRAULIC SNUBBER SUPPORT		VT-3		Yes		10/28/94		Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION	
MS-3A-EBB-1-H1		STRUT/HYDRAULIC SNUBBER SUPPORT ON VALVE KCS11A		VT-3		Yes		11/11/94		Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION	
MS-3A-EBB-1-H2		HYDRAULIC SNUBBER SUPPORT ON VALVE MS100		VT-3		Yes		10/06/94		Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION	
MS-3A-EBB-1-H3		STRUT/HYDRAULIC SNUBBER SUPPORT		VT-3 VT-3		Yes Yes		11/10/94 11/12/94		Relief Request RR-A9 is applicable. PRESERVICE EXAMINATIONS	

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Exam Category

Code Item

Mark Number

Component Description

NDE Method

Examination
Acceptable

PCAQ
Number

Exam Date

Comments

Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations

9th Refueling Outage

Code Class 1

F01.040 COMPONENT SUPPORTS

RC-PZR-SUPPORTS

PRESSURIZER SUPPORTS

VT-3
VT-3

No
Yes

94-0925

10/11/94
11/15/94

Relief Request RR-A9
is applicable. LOOSE
LOCKING NUT - ACCEPTABLE.
11/05/94 EXAMINATION
WAS A PRESERVICE
EXAMINATION FOLLOWING
AN ATTEMPT TO TIGHTEN
NUT. NUT WOULD NOT TIGHTEN.

RC-RCP-1-2-1-SNUBBERS

REACTOR COOLANT PUMP 1-2-1 SNUBBERS

VT-3

Yes

10/25/94

Relief Request RR-A9
is applicable.
PRESERVICE
EXAMINATION

RC-RPV-Z/W AXIS SUPPORT

REACTOR VESSEL Z/W AXIS SUPPORT

VT-3

Yes

10/07/94

Relief Request RR-A9
is applicable.

01/06/95

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Exam Category

Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations

9th Refueling Outage

Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
Code Class 2							
F01.20A THIN WALL PIPING SUPPORTS							
CS-34-GCB-5-H29		VARIABLE SPRING SUPPORT	VT-3	Yes		09/19/94	Relief Request RR-A9 is applicable.
DH-33A-GCB-8-H10		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		09/28/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
DH-33A-GCB-8-H12		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		09/15/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
DH-33A-GCB-8-H15		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		09/28/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
DH-33A-GCB-8-H5		SWAY STRUT SUPPORT	VT-3	Yes		09/19/94	Relief Request RR-A9 is applicable.

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Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations

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9th Refueling Outage

Exam Category

Code Item

Mark Number

Component Description

NDE Method

Examination
Acceptable

PCAQ
Number

Exam Date

Comments

DH-33A-GCB-8-H8

RIGID SUPPORT

VT-3

Yes

09/26/94

Relief Request RR-A9
is applicable.

DH-33B-GCB-1-H19

WELDED VARIABLE SPRING SUPPORT

VT-3

No

94-0799

09/19/94

Relief Request RR-A9
is applicable.
SPRING CAN ROD
HAD IMPROPER
THREAD ENGAGEMENT
- ACCEPTABLE.

DH-33B-GCB-1-H34

WELDED SWAY STRUT SUPPORT

VT-3

Yes

09/19/94

Relief Request RR-A9
is applicable.

DH-33B-GCB-1-H38

HYDRAULIC SNUBBER SUPPORT

VT-3

Yes

09/26/94

Relief Request RR-A9
is applicable.

DH-33B-HCB-3-H10

HYDRAULIC SNUBBER SUPPORT

VT-3

Yes

09/20/94

Relief Request RR-A9
is applicable.
PRESERVICE
EXAMINATION

DH-33B-HCB-3-H12

HYDRAULIC SNUBBER SUPPORT

VT-3

Yes

09/20/94

Relief Request RR-A9
is applicable.
PRESERVICE
EXAMINATION

01/06/95

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Exam Category

Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations

9th Refueling Outage

Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
DH-33C-OCB-7-H4		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		06/30/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
DH-33C-GCB-7-H6		HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		07/05/94	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
HP-33C-GCB-11-H2		RIGID SUPPORT	VT-3	Yes		09/22/94	Relief Request RR-A9 is applicable.
HP-33C-HCC-91-H13		WELDED RIGID SUPPORT	VT-3	Yes		09/28/94	Relief Request RR-A9 is applicable.
HP-M1223-H22		RIGID SUPPORT	VT-3	Yes		09/22/94	Relief Request RR-A9 is applicable.
MS-3A-EBB-2-H20		HYDRAULIC SNUBBER SUPPORT	VT-3 VT-3	Yes Yes		09/22/94 05/11/94	Relief Request RR-A9 is applicable. 05/11/94 EXAMINATION WAS A PRESERVICE EXAMINATION.

9RFO Inservice Inspection Summary
 Toledo Edison Company 300 Madison Avenue, Toledo, Ohio 43652
 Commercial Service Date: 11/21/77

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Exam Category

Code Item

Mark Number

Component Description

NDE Method

Examination
Acceptable

PCAQ
Number

Exam Date

Comments

MS-3A-EBB-2-H22

VARIABLE SPRING SUPPORT

VT-3

No

94-0843

09/27/94

Relief Request RR-A9
is applicable. POST
HEATUP EXAMINATION.
SPRING CAN SETTING
OUT OF TOLERANCE
- ACCEPTABLE.

MS-3A-EBB-2-H36

HYDRAULIC SNUBBER SUPPORT

VT-3

Yes

09/26/94

VT-3

Yes

05/11/94

Relief Request RR-A9
is applicable.
09/26/94 EXAMINATION
WAS A POST HEATUP
EXAMINATION.
05/11/94 EXAMINATION
WAS A PRESERVICE
EXAMINATION.

The total number of ASME Class 1 and Class 2 preservice and inservice examinations completed in the 9th Refueling Outage was 267.

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner TOLEDO EDISON COMPANY, 300 MADISON AVENUE., 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/COMP	BABCOCK & WILCOX	VARIOUS	N/A	N/A
CLASS 2 PIPING/COMP	ITT GRINNELL	VARIOUS	N/A	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 recorded at the top of this form.

FORM NIS-1 (back)

8. Examination Dates MAY 1993 to NOV 1994 9. Inspection Interval from SEPT 1990 to SEPT 2000
10. Applicable Editions of Section XI 1986 Addenda NONE
11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

SEE ATTACHED PAGES

12. Abstract of Conditions Noted.

ALL CORRECTIVE MEASURES ARE IDENTIFIED IN THE SPECIFIC TEST PACKAGES AND ARE AVAILABLE FOR REVIEW IN TOLEDO EDISON'S RECORDS MANAGEMENT SYSTEM.

13. Abstract of Corrective Measures Recommended and Taken

ALL CORRECTIVE MEASURES ARE IDENTIFIED IN THE SPECIFIC TEST PACKAGES AND ARE AVAILABLE FOR REVIEW IN TOLEDO EDISON'S RECORDS MANAGEMENT SYSTEM

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

Expiration Date N/A

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 1/24/95 Signed TOLEDO EDISON CO. By [Signature]
Owner

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 ARKWRIGHT * of NORWOOD, MA. have inspected the components described in this Owners' Data Report during the period MAY 1993 to NOVEMBER 1994, 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 Owner's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date JAN. 26 1995

Thomas S. Laps
Inspector's Signature

Commissions

NB9330 "OHIO COMMISSION"
National Board, State, Province and No.

* FACTORY MUTUAL ENGINEERING ASSOCIATION

SYSTEM PRESSURE TESTS

The following pressure tests were performed for Class 1 and 2 components from May 1993 during the 9th Operating Cycle through the 9th Refueling Outage which was completed on November 13, 1994. These tests were performed in accordance with ASME Section XI and the Inservice Testing Program and were performed on the dates given below.

AUXILIARY FEEDWATER (AF)

AFW Train 1 from cross-connect valves AF3870 to AF608 and AF3869 to AF Train 2 line to Steam Generator #2 Functional Test per DB-PF-03065 (AF002-Partial), October 31, 1994.

AFW Train 2 from cross-connect valves AF3872 to AF599 and AF3871 to AF Train 1 line to Steam Generator #1 Functional Test per DB-PF-03065 (AF002-Partial, AF006-Partial), October 30, 1994.

COMPONENT COOLING WATER (CCW)

Component Cooling Water CTMT Penetrations P3 and P4 supply and return from CTMT per DB-PF-03065 (CC003), November 1, 1994.

CONTAINMENT SPRAY (CS)

Containment Spray Train 1 Functional Test per DB-PF-03065 (CS001, CS002), September 20, 1994.

Containment Spray Train 2 Functional Test per DB-PF-03065 (CS003, CS004), September 2, 1994.

CONTAINMENT VENTILATION (CV)

An Appendix J Local Leak Rate Test with results of zero leakage was an acceptable alternative examination per IWA-2240 for the following Containment Penetrations (test zones):

P68B (CV003)	September 29, 1994
P73B (CV004)	September 29, 1994
P74B (CV005)	September 30, 1994
P42B (CV006)	October 4, 1994
P43B (CV007)	October 4, 1994

Containment Vacuum Breaker Penetrations System Leakage Test (CCN-498) per DB-PF-03065, (CV022-P8A, CV023-P8B, CV024-P8C, CV025-P8D, CV026-P8E), October 11-12, 1994.

Containment Vacuum Breaker Penetrations System Leakage Test (CCN-498) per DB-PF-03065, (CV027-P8F, CV028-P8G, CV029-P8H, CV030-P8I, CV031-P8J), October 9-10, 1994.

CORE FLOOD (CF)

Core Flood Tank 2 System Leakage Test (CCN-498) per DB-PF-03065 (CF002), October 5, 1994.

Core Flood Tanks 1 & 2 Injection to RCS Inservice Test for Relief Request RR-B2 per DB-PF-03065, (CF007, CF008) November 12, 1994.

DECAY HEAT REMOVAL (DH)

DH Train 1 Suction and Discharge lines Functional Test per DB-PF-03065

DH001, DH002, DH003, DH004, DH005, DH006, DH013 - September 22, 1994.

Piping in guardpipe per Relief Request RR-B6 - September 27, 1994.

DH Train 1 discharge to RCS in CTMT and Annulus - October 10, 1994.

DH CTMT Penetration P74C Auxiliary Spray Line Functional Test per DB-PF-03065 (DH011), October 6, 1994.

DH RCS Drop Line (Class 1) piping enclosed in the Decay Heat Valve Pit Functional Test per Relief Request RR-A3 (DH014), October 8, 1994.

HIGH PRESSURE INJECTION (HP)

High Pressure Injection Train 1 Suction and Discharge Functional Test per DB-PF-03065 (HP001, HP001A, HP002), August 26, 1994.

High Pressure Injection Line 1-1 to RCS Functional Test per DB-PF-03065 (HP003), October 22, 1994.

High Pressure Injection Line 1-2 to RCS Functional Test per DB-PF-03065 (HP004), October 21, 1994.

High Pressure Injection Line 2-1 to RCS Functional Test per DB-PF-03065 (HP007), October 11, 1994.

REACTOR COOLANT SYSTEM (RCS)

RCS Class 1 leakage test per DB-PF-03065 (RC0011, RC002, DH016, CF009, CF010), November 12, 1994.

RCS hydrostatic test per DB-PF-03065 for RC10 Repair/Replacement, November 12, 1994.

SERVICE WATER (SW)

Service Water to CTMT Air Cooler 1 Inservice Test per DB-PF-03065 (SW005), October 7, 1994.

Service Water to CTMT Air Cooler 2 Inservice Test per DB-PF-03065 (SW0012), October 5, 1994.

Service Water to CTMT Air Cooler 3 Inservice Test per DB-PF-03065 (SW0018), October 5, 1994.

REPAIRS AND REPLACEMENTS

The following repairs and replacements on ASME Class 1 and 2 components were performed on Davis Besse Nuclear Power Station Unit #1 since April, 1993 (during the 9th Operating Cycle) which marked the completion of the 8th Refueling Outage and completion of the 9th Refueling Outage in November, 1994.

The appropriate ASME Code Data Form is attached for each of these repairs. Detailed documentation for these repairs and replacements is available for review in Toledo Edison's Records Management System.

MAINTENANCE WORK ORDER #	SYSTEM	DESCRIPTION
TOLEDO EDISON		
1-92-0778-00	Decay Heat	Replaced flange bolting
1-92-1113-00	Containment	Replaced flange bolting
1-93-1061-00	Reactor Coolant	Replaced safety valve
1-93-1062-00	Reactor Coolant	Replaced safety valve
1-93-1236-00	Main Steam	Replaced hydraulic snubbers
1-93-1236-09	Decay Heat	Replaced hydraulic snubbers
1-93-1236-10	Decay Heat	Replaced hydraulic snubber
1-93-1236-11	Decay Heat	Replaced hydraulic snubber
1-93-1236-18	Main Feedwater	Replaced hydraulic snubber
1-93-1236-21	SG Drain	Replaced hydraulic snubbers
1-93-1236-30	Main Steam	Replaced hydraulic snubber
1-93-1236-31	Main Steam	Replaced hydraulic snubber
1-93-1249-00	Main Steam	Replaced hydraulic snubbers
1-93-1320-00	Main Steam	Replaced hydraulic snubbers
1-94-0048-00	Decay Heat	Replaced flange bolting
1-94-0391-00	Reactor Coolant	Replaced hydraulic snubbers
1-94-0691-00	Containment	Replaced flange bolting
2-86-0175-14	Reactor Coolant	Removed arc strike
2-86-0175-16	Reactor Coolant	Replaced valve RC4632
2-90-0046-02	Reactor Coolant	Replaced valve RC10
2-90-0046-02	Reactor Coolant	Adjusted Spring Can Settings
2-92-0008-09	Main Steam	Modified support

MAINTENANCE WORK ORDER #	SYSTEM	DESCRIPTION
2-92-0008-10	Main Steam	Modified support
3-94-4519-01	Main Steam	Repaired main steam isolation valve MS100
3-93-4805-01	Reactor Coolant	Cleaned and tested spare Code Safety Valve
3-93-4642-01	Reactor Coolant	Cleaned and tested spare Code Safety Valve
7-93-0204-02	Main Steam	Replaced hydraulic snubber
7-93-0328-01	Containment	Replaced valve CV0624B
7-94-0599-02	Decay Heat	Replaced hydraulic snubber
7-94-0599-08	Decay Heat	Replaced hydraulic snubber
7-94-0599-09	Decay Heat	Replaced hydraulic snubber
7-94-0599-10	Containment Spray	Replaced hydraulic snubber
7-94-0599-14	Containment Spray	Replaced hydraulic snubber
7-94-1101-01	Reactor Coolant	Removed and rewelded thermowell seal weld

B&W NUCLEAR TECHNOLOGIES

Task 2.2	Reactor Coolant	Repaired Steam Generator handhole
Task 3.0	Reactor Coolant	Replaced CRD flange bolting
Task 5.1	Reactor Coolant	Steeved Steam Generator 1-2 Tubes
Task 5.2A	Reactor Coolant	Plugged and stabilized Steam Generator 1-1 Tubes
Task 5.2A	Reactor Coolant	Plugged and stabilized Steam Generator 1-2 Tubes
Task 5.2B	Reactor Coolant	Installed plugs in Steam Generator 1-1 Tubes
Task 11	Reactor Coolant	Modified Surge Line Restraints

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 9/29/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
2. Plant Devis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 1-92-0778-00
Repair Organization P.O. No., Job No., etc.
3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Expiration Date 7-17-95
4. Identification of Systems DECAY HEAT SYSTEM (DH-37 BLIND FLANGE)
5. (a) Applicable Construction Code ASME III CL2 Edition 19 71 Addendum No Code Case None
(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 Replaced or Replacement	ASME Code Stamped
STUD	CARDINAL	N/A	N/A	HT# 18029	N/A	REPLACEMENT	No
NUTS	ALLIED NUT & BOLT	N/A	N/A	HT# 34658	N/A	REPLACEMENT	No

7. Description of Work

8 EA. STUD- 5/8-11 X 4", SA564 GRADE 630/H1100, P.O. S053176 D93, HT# 18029

CLASS 2, SUB NC, 1986 EDITION, NO ADDENDA

16 EA. NUTS- 5/8-11, SA194 GRADE 8M, P.O. S047687 D93, HT# 34658

CLASS 2, NC, 1986 EDITION, NO ADDENDA

STUDS AND NUTS WERE REPLACED AS A RESULT OF AN UNMARKED NUT BEING FOUND DURING THE REMOVAL OF BLIND FLANGE ON DH-37.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A

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

Set Pressure and Blowdown Adjustments Made Using N/A (Test Medium)

at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed [Signature] Quality Control Manager Date Oct. 4 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 5/10/94 to 10/5/94, 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.

Thomas J. Lepa
Inspector's Signature

10/5/94
Date

Commissions NB-4330 " OHIO C.E.M.A.
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions

National Board, State, Province and Endorsements

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 11/10/94
300 Madison Ave, Toledo, OH 43652 Sheet 1 of 2
 2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 1-92-1113-00
 Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems CONTAINMENT PENETRATION 59
 5. (a) Applicable Construction Code ASME III CL2 Edition 19 68 Addendum No Code Case NONE
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B6
 (c) Design Responsibilities CHICAGO BRIDGE & IRON

6. Identification of Components Repaired or Replaced and Replacement Components

Base 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
STUDS	NOVA	N/A	N/A	N/A	N/A	REPLACEMENT	No
NUTS	NOVA	N/A	N/A	N/A	N/A	REPLACEMENT	No

7. Description of Work

BOLTING FOR PENETRATION 59 WAS UPDATED TO HIGH-STRENGTH MATERIAL PER SPEC M-601. THE 16 STUDS ARE FROM HEAT NUMBERS 35249 (14) UNDER P.O. S-045993; 868356 (1) UNDER P.O. Q-020492 ST; AND 15906 (1) UNDER P.O. S-049768. ALL 32 NUTS ARE FROM HEAT NUMBER 33390 UNDER P.O. C-609499. STUDS ARE 3/4", SA 564 GR630. NUTS ARE 3/4", SA 194 GR 8M.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F
 Pressure Relief Valves:
 Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
the ASME Code Section XI.

conforms to the rules of

Type Code Symbol NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C. A. Hawley Quality Control Manager Date Nov. 10 19 94
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 in the
State or Province of Ohio and employed by Arkwright * of Norwood, Mass.
have inspected the components described in this Owner's Report during the period 10-11-94 to 11-10-94, 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

11-10-94
Date

Commissions NB 934 "OH-C-1000"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 95

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 Arkwright *
of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions

National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

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 11/17/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
 2. Plant Davis-Besse Nuclear Power Station Unit #1
5501 N. SR 2, Oak Harbor, OH 43449 1-93-1061-00
 Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems Pressurizer Code Safety Relief Valve
 5. (a) Applicable Construction Code ASME III CL1 Edition 19 68 Addendum S70 Code Case 1442
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities Crosby Valve & Gage 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
Safety Valve	Crosby	N54891-00-0002	NA	RC 13 A	1976	REPLACEMENT	Yes
Safety Valve	Crosby	N54891-00-0001	NA	RC 13 A	1976	REPLACED	Yes

7. Description of Work

RC 13 A, S/N 54891-00-0001 WAS REMOVED FROM SERVICE ON THE PRESSURIZER AND REPLACED WITH REBUILT S/N 54891-00-0002. S/N 54891-00-0002 WAS REBUILT AND FUNCTIONALLY TESTED BY TOLEDO EDISON PERSONNEL AT WYLE LABORATORIES, HUNTSVILLE, ALABAMA UNDER MWO # 3-93-4642-01.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F
 Pressure Relief Valves:
 Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

NONE

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C. A. Hawley ⁴⁰ Quality Control Manager Date Nov. 17 1994
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 12/21/94 to 11/16/94, 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.

Thomas G. Lapa NOV 16, 1994 Commissions NB 4330 "Ohio Commission"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 1995

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 1995

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature Date Commissions _____
National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

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 11/17/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
 2. Plant Davis-Besse Nuclear Power Station Unit #1
5501 N. SR 2, Oak Harbor, OH 43449 1-93-1062-00
 Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems Pressurizer Code Safety Relief Valve
 5. (a) Applicable Construction Code ASME III CL1 Edition 19 74 Addendum S74 Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities Crosby Valve & Gage 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
Safety Valve	Crosby	N59303-00-0001	NA	RC 13 B	1976	REPLACEMENT	Yes
Safety Valve	Crosby	N56264-00-0005	NA	RC 13 B	1976	REPLACED	Yes

7. Description of Work

RC 13 B, S/N 56264-00-0005 WAS REMOVED FROM SERVICE ON THE PRESSURIZER AND REPLACED WITH REBUILT S/N 59303-00-0001. S/N 59303-00-0001 WAS REBUILT AND FUNCTIONALLY TESTED BY TOLEDO EDISON PERSONNEL AT WYLE LABORATORIES, HUNTSVILLE, ALABAMA UNDER MWO # 3-83-4805-01.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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		Page 2 of 2
9. REMARKS Applicable Manufacturers Data Reports to be Attached		
NONE		
<div style="text-align: center;">CERTIFICATE OF COMPLIANCE</div> <p>We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code Section XI.</p> <p>Type Code Symbol <u>NR</u> Certificate of Authorization No. <u>20</u> Expiration Date <u>7-17-95</u></p> <p>Signed <u>C. A. Hawley</u> Quality Control Manager Date <u>Nov. 17</u> 19 <u>94</u> <small>Owner or Owner's Designee, Title</small></p>		
<div style="text-align: center;">CERTIFICATE OF INSERVICE INSPECTION</div> <p>I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors in the State or Province of <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> have inspected the components described in this Owner's Report during the period <u>6/23/94</u> to <u>11/16/94</u>, 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.</p> <p>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.</p> <p><u>Thomas E. Saps</u> <u>NOV 18, 1994</u> Commissions <u>NB9330 "OHIO Commission"</u> <small>Inspector's Signature Date National Board, State, Province and Endorsements</small></p>		
<div style="text-align: center;">CERTIFICATE OF COMPLIANCE</div> <p>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 publications NB-65 and NB-102, current editions.</p> <p>Certificate of Authorization No. <u>316</u> to use the "VR" stamp expires <u>Dec. 13</u>, 19 <u>95</u></p> <p>Certificate of Authorization No. <u>20</u> to use the "NR" stamp expires <u>July 17</u>, 19 <u>95</u></p> <p>Date _____, 19____, Signed <u>Toledo Edison</u> <u>Quality Control Mgr.</u> <small>Repair Organization Authorized Representative Title</small></p>		
<div style="text-align: center;">CERTIFICATE OF INSPECTION</div> <p>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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> 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.</p> <p>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.</p> <p>_____ <small>Authorized Inspector's Signature Date Commissions _____ National Board, State, Province and Endorsements</small></p> <p style="text-align: center;">* Factory Mutual Engineering Association</p>		

FORM NIS-2 / NR-1 / ~~NVR-4~~ OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 10/2/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-93-1236-00
Repair Organization P.O. No., Job No., etc.
3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Expiration Date 7-17-95
4. Identification of Systems MAIN STEAM 3A-EBB-1-H2 (A44 & A45)
5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum N/A Code Case N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
(c) Design Responsibilities ITT GRINNELL

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
SNUBBER	ITT GRINNELL	21315	N/A	A-44	N/A	REPLACED	No
SNUBBER	ITT GRINNELL	12473	N/A	A-44	N/A	REPLACEMENT	No
SNUBBER	ITT GRINNELL	18293	N/A	A-45	N/A	REPLACED	No
SNUBBER	ITT GRINNELL	24190	N/A	A-45	N/A	REPLACEMENT	No

7. Description of Work

ITT GRINNELL HYDRULIC SNUBBERS S/N 21315 (A-44) AND 18293 (A-45) WERE REMOVED AND REPLACED WITH LIKE-FOR-LIKE SNUBBERS S/N 12473 (A-44) AND 24190 (A-45). REPLACEMENT SNUBBER S/N 12473 WAS REBUILT UNDER MWO# 1-87-0510-02. REPLACEMENT SNUBBER S/N 24190 WAS REBUILT UNDER MWO # 1-87-0510-00. BOTH SNUBBERS WERE FUNCTIONALLY TESTED SATISFACTORILY.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
Opening Pressure N/A Blowdown (if applicable) N/A
Set Pressure and Blowdown Adjustments Made Using N/A
at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided all information in items 1 through 6 on this report is included on each sheet, and the sheet is numbered in sequence of sheets recorded at the top of this form.

FORM NIS-2 / NR-1 / NVR-1

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed [Signature] Quality Control Manager Date 10/10 1994
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 12/7/93 to 12/10/94, 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.

Thomas J. Papa
Inspector's Signature

10/10/94
Date

Commissions NB9330 "OHIO COMMISSION"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 1995

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 1995

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions

National Board, State, Province and Endorsements

FORM NIS-2 / NR-1 / ~~DVR-1~~ OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

- Owner Toledo Edison Company Date 7/7/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
Name Address
- Plant Davis-Besse Nuclear Power Station Unit #1
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 1-93-1236-09
Name Address Repair Organization P.O. No., Job No., etc.
- Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Name Address Expiration Date 7-17-95
- Identification of Systems DECAY HEAT PUMP 1-1 SUCTION/HYDRAULIC SNUBBER (049-02)
- (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum N/A Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities GRINNEL

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
33C-GCB-7-H4	GRINNEL	SN# 10931	N/A	A82	N/A	REPLACEMENT	N/A
33C-GCB-7-H4	GRINNEL	SN# 10189	N/A	A82	N/A	REPLACED	N/A
33C-GCB-7-H4	GRINNEL	SN# 9289	N/A	A83	N/A	REPLACEMENT	N/A
33C-GCB-7-H4	GRINNEL	SN#9869	N/A	A83	N/A	REPLACED	N/A

7. Description of Work

REPLACED EXISTING SNUBBERS WITH "LIKE FOR LIKE" REPLACEMENT AND TESTED SNUBBERS.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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		Page 2 of 2
9. REMARKS		Applicable Manufacturers Data Reports to be Attached
NONE		
CERTIFICATE OF COMPLIANCE		
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code Section XI.		
Type Code Symbol <u>NR</u>	Certificate of Authorization No. <u>20</u>	Expiration Date <u>7-17-95</u>
Signed <u>[Signature]</u> <u>Quality Control Manager</u>		Date <u>7/7</u> 19 <u>94</u>
CERTIFICATE OF INSERVICE 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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> have inspected the components described in this Owner's Report during the period <u>12-9-93</u> to <u>7-12-94</u> , 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 <u>[Signature]</u>	Date <u>7-12-94</u>	Commissions <u>NB 9801</u> <u>OHIO</u> <u>Common</u> 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 publications NB-65 and NB-102, current editions.		
Certificate of Authorization No. <u>316</u>	to use the "VR" stamp expires <u>Dec. 13</u> 19 <u>95</u>	
Certificate of Authorization No. <u>20</u>	to use the "NR" stamp expires <u>July 17</u> 19 <u>95</u>	
Date _____, 19____	Signed <u>Toledo Edison</u> <u>Quality Control Mgr.</u>	
	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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> 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.		
Authorized Inspector's Signature _____	Date _____	Commissions _____ National Board, State, Province and Endorsements
* Factory Mutual Engineering Association		

FORM NIS-2 / NR-1 / ~~DVE-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 7/7/94
Name
300 Madison Ave., Toledo, OH 43652
Address

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

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

Authorization NO. 20
 Expiration Date 7-17-95

4. Identification of Systems DECAY HEAT PUMP 1-1 SUCTION/HYDRAULIC SNUBBER (049-02)

5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum N/A Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities GRINNEL

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
33C-GCB-7-H6	GRINNEL	SN# 8362	N/A	A84	N/A	REPLACEMENT	N/A
33C-GCB-7-H6	GRINNEL	SN# 10365	N/A	A84	N/A	REPLACED	N/A

7. Description of Work

REPLACED EXISTING SNUBBER WITH "LIKE FOR LIKE" REPLACEMENT AND TESTED SNUBBERS.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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~~

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

NONE

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed [Signature] Quality Control Manager Date 7/7 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 12-9-93 to 7-12-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature [Signature] Date 7-12-94 Commissions NB9801 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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature _____ Date _____ Commissions _____
National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

FORM NIS-2 / NR-1 / ~~NR-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 4/8/94
Name
300 Madison Ave. Toledo, OH 43652
Address
 Sheet 1 of 2
 2. Plant Davis-Besse Nuclear Power Station Unit # 1
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address MW0# 1-93-1236-11
Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems DECAY HEAT PUMP 1-1 DISCHARGE / HYDRAULIC SNUBBER
 5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum N/A Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities GRINNEL

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
A109	GRINNEL	SN# 17677	N/A	33B-GCB-2-H8	N/A	REPLACEMENT	N/A
A109	GRINNEL	SN# 13909	N/A	33B-GCB-2-H8	N/A	REPLACED	N/A

7. Description of Work

REPLACED EXISTING SNUBBER WITH REBUILT AND TESTED SNUBBER. THIS IS A "LIKE FOR LIKE" REPLACEMENT.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F
 Pressure Relief Valves:
 Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A (Test Medium)

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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.

FORM NIS-2 / NR-1 / NVR-1

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

NONE

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed [Signature] Quality Control Manager Date 4/11 1994
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 12-9-93 to 4-12-94, 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

4-12-94
Date

Commissions OHIO COMMISSION
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 1995

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 1995

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions _____
National Board, State, Province and Endorsements

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 11/2/94
Name
300 Madison Ave., Toledo, OH 43652
Address
 Sheet 1 of 2

2. Plant Davis-Besse Nuclear Power Station Unit # 1
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
MWO# 1-93-1236-18
Repair Organization P.O. No., Job No., etc.

3. Work Performed By Toledo Edison Company Type Code Stamp NR
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
 Authorization NO. 20
 Expiration Date 7-17-95

4. Identification of Systems MAIN FEEDWATER TO STM GEN 1-1 (EBB-3-SR-25C) C-237

5. (a) Applicable Construction Code ANSI B31.1 Edition 19 68 Addendum N/A Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities ITT GRINNELL

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
SNUBBER	ITT GRINNELL	12852	N/A	C-237	N/A	REPLACED	No
SNUBBER	ITT GRINNELL	12832	N/A	C-237	N/A	REPLACEMENT	No

7. Description of Work

ITT GRINNELL SNUBBER S/N 12852 WAS REMOVED AND REPLACED WITH A LIKE-FOR-LIKE SNUBBER S/N 12832. THE REPLACEMENT SNUBBER WAS REBUILT UNDER MWO# 1-87-0510-00 AND WAS FUNCTIONALLY TESTED SATISFACTORILY.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other: (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A

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

Set Pressure and Blowdown Adjustments Made Using N/A

at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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 / ~~NR-1~~

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

NONE

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C. Q. Hawley Quality Control Manager Date Nov. 2 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 12-21-93 to 11-2-94, 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 L. Martini 11-2-94 Commissions NB-8643 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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature _____ Date _____ Commissions _____
National Board, State, Province and Endorsements

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 10/29/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
 2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 1-93-1236-21
 Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems STM GEN 1-2 DRAIN SYSTEM 7EBB-5-H11 (C-212 & C-213)
 5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum No Code Case NONE
 (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.	Owner's Identification/ Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
SNUBBER	ITT GRINNELL	13814	N/A	C-212	N/A	REPLACED	No
SNUBBER	ITT GRINNELL	17741	N/A	C-212	N/A	REPLACEMENT	No
SNUBBER	ITT GRINNELL	13815	N/A	C-213	N/A	REPLACED	No
SNUBBER	ITT GRINNELL	13265	N/A	C-213	N/A	REPLACEMENT	No

7. Description of Work

ITT GRINNELL SNUBBERS S/N 13814 AND 13815 WERE REMOVED AND REPLACED WITH LIKE-FOR-LIKE SNUBBERS S/N 17741 AND 13265. S/N 17741 WAS INSTALLED AS C-212 AND 13265 WAS INSTALLED AS C-213 ON HANGER 7EBB-5-H11. S/N 17741 WAS REBUILT UNDER MWO 1-91-0572-02. S/N 13265 WAS REBUILT UNDER MWO 1-91-1707-01. BOTH INSTALLED SNUBBERS WERE FUNCTIONALLY TESTED SATISFACTORILY UNDER MWO 1-93-1236-21.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C. A. Hawley ⁴⁵ Quality Control Manager Date 10-30 1994
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 1/4/94 to 10/31/94, 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.

Thomas H. Leys ⁴⁵ 10/31/94 Commissions NB 9330 "Ohio Commission"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 1995

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 1995

Date 10/30/94 Signed Toledo Edison C. A. Hawley ⁴⁵ Quality Control Mgr.
⁴⁵ 10/30/94 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 Arkwright * of Norwood, Mass. have inspected the repair, modification, or replacement described in this report

on 10/30/94 1994 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.

Authorized Inspector's Signature Date Commissions
National Board, State, Province and Endorsements

FORM NIS-2 / NR-1 / ~~1000~~ OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 5/13/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO 1-93-1236-30
Repair Organization P.O. No., Job No., etc.
3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Expiration Date 7-17-95
4. Identification of Systems Main Steam to AFPT (3AEBB2H36) 083-01
5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum No Code Case No
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
(c) Design Responsibilities ITT GRINNELL

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
Snubber	ITT Grinnell	18407	N/A	A-53	N/A	REPLACEMENT	No
Snubber	ITT Grinnell	16829	N/A	A-53	N/A	REPLACED	No

7. Description of Work

Removed existing snubber serial #16829 and installed rebuilt snubber serial #18407. Replacement snubber was rebuilt under MWO 1-92-1030-00.

5a cont- ANSI B31.1 & MSS-SP58, 1967 Edition or Later

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)

Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A

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

Set Pressure and Blowdown Adjustments Made Using N/A

at N/A

(Test Medium)

(Location)

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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		Page 2 of 2
9. REMARKS Applicable Manufacturers Data Reports to be Attached		
N/A		
CERTIFICATE OF COMPLIANCE		
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code Section XI.		
Type Code Symbol <u>NR</u>	Certificate of Authorization No. <u>20</u>	Expiration Date <u>7-17-95</u>
Signed <u><i>Charles H. Hardy</i></u> <u>Quality Control Manager</u> Date <u>5/13</u> 19 <u>94</u> <small>Owner or Owner's Designee, Title</small>		
CERTIFICATE OF INSERVICE 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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> have inspected the components described in this Owner's Report during the period <u>2-22-94</u> to <u>5-12-94</u> , 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.		
<u><i>Raymond</i></u> <small>Inspector's Signature</small>	<u>5-19-94</u> <small>Date</small>	Commissions <u>OHIO COMMISSION</u> <small>National Board, State, Province and Endorsements</small>
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 publications NB-65 and NB-102, current editions.		
Certificate of Authorization No. <u>316</u> to use the "VR" stamp expires <u>Dec. 13</u> , 19 <u>95</u>		
Certificate of Authorization No. <u>20</u> to use the "NR" stamp expires <u>July 17</u> , 19 <u>95</u>		
Date _____, 19____, Signed <u>Toledo Edison</u> <small>Repair Organization</small>	Authorized Representative	<u>Quality Control Mgr.</u> <small>Title</small>
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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> 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.		
_____ <small>Authorized Inspector's Signature</small>	_____ <small>Date</small>	Commissions _____ <small>National Board, State, Province and Endorsements</small>
* Factory Mutual Engineering Association		

FORM NIS-27/NR-1 / ~~FORM~~ OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 5/13/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO 1-93-1236-31
Repair Organization P.O. No., Job No., etc.
3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Expiration Date 7-17-95
4. Identification of Systems MAIN STEAM to AFPT 1-2 (3AEBB2H20) 083-01
5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum No Code Case No
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
(c) Design Responsibilities ITT GRINNELL

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
Snubber	ITT Grinnell	17191	N/A	A-51	N/A	REPLACEMENT	No
Snubber	ITT Grinnell	13883	N/A	A-51	N/A	REPLACED	No

7. Description of Work

Removed existing snubber serial #13883 and installed rebuilt snubber serial #17191. Replacement snubber was rebuilt under MWO 1-93-0183-00.

5a cont- ANSI B31.1 & MSS-SP58, 1967 Edition or Later

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
Pressure N/A psi Test Temperature N/A °F
Pressure Relief Valves:
Service N/A Size N/A
Opening Pressure N/A Blowdown (if applicable) N/A
Set Pressure and Blowdown Adjustments Made Using N/A
at N/A (Test Medium)

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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 NB Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed [Signature] Quality Control Manager Date 5/13 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 2-11-94 to 5-12-94, 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 5-19-94 Commissions OHIO COMMISSION
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature _____ Date _____ Commissions _____
National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

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 11/3/94
Name
300 Madison Ave., Toledo, OH 43652
Address
2. Plant Davis-Besse Nuclear Power Station Sheet 1 of 2
Name
5501 N. SR 2, Oak Harbor, OH 43449 Unit #1
Address 1-93-1249-00
Repair Organization P.O. No., Job No., etc.
3. Work Performed By Toledo Edison Company Type Code Stamp NR
Name
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Address Expiration Date 7-17-95
4. Identification of Systems MAIN STEAM / LOOPS D-RINGS (3A-EBB-1-SR-3) C-167 & C-168
5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum No Code Case NONE
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities ITT GRINNELL

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
SNUBBER	GRINNELL	21313	N/A	C-167	N/A	REPLACED	No
SNUBBER	GRINNELL	12476	N/A	C-167	N/A	REPLACEMENT	No
SNUBBER	GRINNELL	12469	N/A	C-168	N/A	REPLACED	No
SNUBBER	GRINNELL	12853	N/A	C-168	N/A	REPLACEMENT	No

7. Description of Work

SNUBBERS S/N 21313 AND 12469 WERE REMOVED FROM HANGER EBB-1-SR-3. SNUBBERS S/N 12476 AND 12853 BEEN INSTALLED AS A REPLACEMENT FOR S/N 21313 AND 12469. REPLACEMENT SNIBBERS WERE FUNCTIONALLY TESTED PRIOR TO INSTALLATION UNDER MWO #1-93-1249-00.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C. A. Hawley Quality Control Manager Date Nov. 4 19 94

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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 12-9-93 to 11-7-94, 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

11-7-94
Date

Commissions NB9P01 "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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions

National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

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

As Required by the Provisions of the ASME Code Section XI

- Owner Toledo Edison Company Date 11/1/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
Name Address
- Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO 1-63-1320-00
Name Address Repair Organization P.O. No., Job No., etc.
- Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Name Address Expiration Date 7-17-95
- Identification of Systems Main Steam Loop #2 From Stm Gen 1-2 (3A-EBB-1-SR-1) C-165 & C-166
- (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum N/A Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities ITT Grinnell

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
Snubber	ITT Grinnell	21314	N/A	C-165	N/A	Replaced	No
Snubber	ITT Grinnell	12849	N/A	C-165	N/A	Replacement	No
Snubber	ITT Grinnell	24083	N/A	C-166	N/A	Replaced	No
Snubber	ITT Grinnell	14732	N/A	C-166	N/A	Replacement	No

7. Description of Work

ITT Grinnell hydraulic snubbers s/n 21314 and 24083 were removed and replaced with like-for-like snubbers s/n 12849 and 14732. Replacement snubbers s/n 12849 and 14732 were rebuilt under MWO 1-64-0355-02 and were functionally tested satisfactory.

B. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A (Test Medium)
 at N/A (Location)

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

None

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C. A. Hawley ⁴⁰ Quality Control Manager Date Nov. 1 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 12/13/93 to 11/2/94, 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.

Thomas G. Lupa Nov. 2, 1994 Commissions NB 4330 "OHIO COMMISSION"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature _____ Date _____ Commissions _____
National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

FORM NIS-2 / NR-1 / ~~NR-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 3/4/94
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 1-94-0048-00
Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems Decay Heat Pump 1-2 Suction Line Flush Connection (049-02)
 5. (a) Applicable Construction Code ASME III CL2 Edition 19 71 Addendum No Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities Nova Machine Product Corporation & Allied Nut & Bolt 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 or Replacement	ASME Code Stamped
5/8"X3-3/4" Stud	Nova Machine Prod.	HT#15087	N/A	N/A	1992	Replacement	No
5/8"-11 Heavy Nut	Allied Nut & Bolt Co.	HT#34658	N/A	N/A	1993	Replacement	No

7. Description of Work

Replaced existing studs and nuts at blind flange connection downstream of valve DH 036 with new studs and nuts per Design Specification M-200 change. Change out was for material reasons only.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

None

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed [Signature] Quality Control Manager Date 3/4/94 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 2-8-94 to 3-8-94 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 L. Martini 3-8-94 Commissions 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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature _____ Date _____ Commissions _____
National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

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 10/27/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
 Address
2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 Repair Organization P.O. No., Job No., etc. 1-94-0391-00
 Address
3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
 Address Expiration Date 7-17-95
4. Identification of Systems REACTOR COOLANT SYSTEM RCP-2-4N/S (C-307) RCP-2-3E/W (C-306)
5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum No Code Case NONE
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities ITT GRINNELL

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
SNUBBER	ITT GRINNELL	27706	N/A	C-306	N/A	REPLACED	No
SNUBBER	ITT GRINNELL	15106	N/A	C-306	N/A	REPLACEMENT	No
SNUBBER	ITT GRINNELL	27707	N/A	C-307	N/A	REPLACED	No
SNUBBER	ITT GRINNELL	15100	N/A	C-307	N/A	REPLACEMENT	No

7. Description of Work

ITT GRINNELL SNUBBERS S/N 15106 AND 15100 WERE REMOVED AND REPLACED WITH LIKE-FOR-LIKE SNUBBERS S/N'S 27706 AND 27707. S/N 27706 WAS INSTALLED AS C-306 INTO HANGER RCP-2-3 E/W. S/N 27707 WAS INSTALLED AS C-307 RCP-2-4 N/S. S/N 27706 AND 27707 WERE REBUILT UNDER MWO 1-94-0799-00. BOTH S/N27706 AND 27707 WERE FUNCTIONALLY TESTED PRIOR TO INSTALLATION UNDER MWO 1-94-0391-00.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A *
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided all data is provided in the main report. Information in items 1 through 6 on this report is included in each sheet. Each sheet is numbered and dated at the top of this page.

FORM NIS-2 / NR-1 / NVR-1		Page 2 of 2
9. REMARKS		Applicable Manufacturers Data Reports to be Attached
N/A		
CERTIFICATE OF COMPLIANCE		
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code Section XI.		
Type Code Symbol <u>NR</u>	Certificate of Authorization No. <u>20</u>	Expiration Date <u>7-17-95</u>
Signed <u>C. A. Hawley</u> ⁴⁶ <u>Quality Control Manager</u> Date <u>Oct. 27</u> 19 <u>94</u> <small>Owner or Owner's Designee Title</small>		
CERTIFICATE OF INSERVICE 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 <u>Ohio</u> and employed by <u>Arkwright</u> of <u>Norwood, Mass.</u> have inspected the components described in this Owner's Report during the period <u>5/2/94</u> to <u>10/26/94</u> , 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.		
<u>Thomas J. Lepa</u> <small>Inspector's Signature</small>	<u>Oct. 28, 1994</u> <small>Date</small>	<u>NB 4330 OHIO COMM.</u> <small>National Board, State, Province and Endorsements</small>
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 publications NB-65 and NB-102, current editions.		
Certificate of Authorization No. <u>316</u>	to use the "VR" stamp expires <u>Dec. 13</u>	19 <u>95</u>
Certificate of Authorization No. <u>20</u>	to use the "NR" stamp expires <u>July 17</u>	19 <u>95</u>
Date _____ 19____	Signed <u>Toledo Edison</u>	<u>Quality Control Mgr.</u>
	<small>Repair Organization</small>	<small>Authorized Representative Title</small>
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 <u>Ohio</u> and employed by <u>Arkwright</u> of <u>Norwood, Mass.</u> 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.		
_____ <small>Authorized Inspector's Signature</small>	_____ <small>Commission No.</small>	_____ <small>State, Province and Endorsements</small>
<small>© Factor Manufacturing Association</small>		

FORM NIS-2 / NR-1 / ~~NR-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 11/7/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO 1-94-0691-00
Repair Organization P.O. No., Job No., etc.
3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Expiration Date 7-17-95
4. Identification of Systems CTMT Mechincal Penetration # 17
5. (a) Applicable Construction Code ASME III CL2 Edition 19 71 Addendum No Code Case No
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
(c) Design Responsibilities Nova Machine Products Corp.

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
3/4"x4 1/4" Studs	Nova Machine	Ht# 15091	N/A	Pent # 17	1994	Replacement	No
3/4"x4 1/4" Studs	Nova Machine	Ht# 15906	N/A	Pent # 17	1993	Replacement	No
3/4" Hex Nuts	Nova Machine	Ht# 33390	N/A	Pent # 17	1993	Replacement	No

7. Description of Work

Existing studs and nuts (Heat Numbers Unknown) were removed and replaced with higher strength material as required by material specification M-200. The replacement was not a result of any type of failure.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
Opening Pressure N/A Blowdown (if applicable) N/A
Set Pressure and Blowdown Adjustments Made Using N/A
at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

None

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C. A. Haulley Quality Control Manager Date Nov. 7 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 10-14-94 to 11-7-94, 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

11-7-94
Date

Commissions NB 9801 "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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions _____
National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

FORM NIS-2 / NR-1 / ~~NIR-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 11/15/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 2-86-0175-14
Repair Organization P.O. No., Job No., etc.
3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Expiration Date 7-17-95
4. Identification of Systems LOOP# 1 HIGH POINT VENT LINE SUS# 064-02
5. (a) Applicable Construction Code ASME III CL1 Edition 19 71 Addendum N/A Code Case N/A
(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
SEE BLOCK "7"							

7. Description of Work

REMOVED ARC STRIKE FROM 1" HIGH POINT VENT PIPING. ARC STRIKE WAS REMOVED USING HAND FILE. AREA WAS THEN VERIFIED FOR THICKNESS AND LIQUID PENETRANT EXAM WAS PERFORMED SATISFACTORILY.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
Opening Pressure N/A Blowdown (if applicable) N/A
Set Pressure and Blowdown Adjustments Made Using N/A
at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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		Page 2 of 2
9. REMARKS Applicable Manufacturers Data Reports to be Attached		
NONE		
CERTIFICATE OF COMPLIANCE		
We certify that the statements made in the report are correct and this <u>repair</u> conforms to the rules of the ASME Code Section XI.		
Type Code Symbol <u>NR</u>	Certificate of Authorization No. <u>20</u>	Expiration Date <u>7-17-95</u>
Signed <u>C. A. Hawley</u> <i>[Signature]</i> <u>Quality Control Manager</u>		Date <u>Nov. 15</u> 19 <u>94</u>
<small>Owner or Owner's Designee, Title</small>		
CERTIFICATE OF INSERVICE 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 <u>Ohio</u> and employed by <u>Arkwright</u> * of <u>Norwood, Mass.</u> have inspected the components described in this Owner's Report during the period <u>Oct. 25, 1994</u> to <u>Nov. 4, 1994</u> , 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.		
<u>Thomas H. Gaps</u> <i>[Signature]</i> <small>Inspector's Signature</small>	<u>ANE</u> <small>Date</small>	<u>Nov. 16, 1994</u> Commissions <u>NB9330</u> * <u>OHIO COMM.</u> <small>National Board, State, Province and Endorsements</small>
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 publications NB-65 and NB-102, current editions.		
Certificate of Authorization No. <u>316</u>	to use the "VR" stamp expires <u>Dec. 13</u> 19 <u>95</u>	
Certificate of Authorization No. <u>20</u>	to use the "NR" stamp expires <u>July 17</u> 19 <u>95</u>	
Date _____, 19____, Signed <u>Toledo Edison</u>	<u>Quality Control Mgr.</u>	
<small>Repair Organization</small>	<small>Authorized Representative</small>	<small>Title</small>
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 <u>Ohio</u> and employed by <u>Arkwright</u> * of <u>Norwood, Mass.</u> 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.		
Authorized Inspector's Signature _____	Date _____	Commissions _____ <small>National Board, State, Province and Endorsements</small>
* Factory Mutual Engineering Association		

FORM NIS-2 / NR-1 / ~~NIR-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 6/29/93
Name
300 Madison Ave., Toledo, OH 43652
Address
 Sheet 1 of 4
 2. Plant Davis-Besse Nuclear Power Station Unit # 1
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
MWO 2-95-0175-16
Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems Reactor Coolant System Sub 064-02
 5. (a) Applicable Construction Code ASME III CL1 Edition 19 80 Addendum N/A Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 85
 (c) Design Responsibilities Valcor Engineering Corp

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
Valve	Valcor Engineering	1	N/A	RC4632	1982	Replaced	Yes
Valve	Valcor Engineering	13	N/A	RC4632	1990	Replacement	Yes

7. Description of Work

Replaced existing valve and installed new valve.

8. cont'd - A VT-2 was performed during leakage test.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (YES) Other (YES)
 Pressure 2170 psi Test Temperature 650 °F
 Pressure Relief Valves:
 Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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		Page 2 of 4
9. REMARKS		
See attached manufacturers data report		
CERTIFICATE OF COMPLIANCE		
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code Section XI.		
Type Code Symbol <u>NB</u>	Certificate of Authorization No. <u>20</u>	Expiration Date <u>7-17-95</u>
Signed <u>Robert E. Donnell</u>		Date <u>29 June</u> 19 <u>93</u>
<small>Owner or Owner's Designee, Title</small>		
CERTIFICATE OF INSERVICE 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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> have inspected the components described in this Owner's Report during the period <u>JAN 27 1993</u> to <u>JUNE 29 1993</u> 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 <u>Thomas A. Lupa</u>	Date <u>6-29-93</u>	Commissions <u>OHIO CCAM</u>
<small>National Board, State, Province and Endorsements</small>		
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 publications NB-65 and NB-102, current editions.		
Certificate of Authorization No. <u>316</u>	to use the "VR" stamp expires <u>Dec. 13</u> , 19 <u>95</u>	
Certificate of Authorization No. <u>20</u>	to use the "NR" stamp expires <u>July 17</u> , 19 <u>95</u>	
Date _____, 19____	Signed <u>Toledo Edison</u>	<u>Quality Control Mgr.</u>
<small>Repair Organization</small>		<small>Authorized Representative</small>
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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> 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.		
Authorized Inspector's Signature _____	Date _____	Commissions _____
<small>National Board, State, Province and Endorsements</small>		
* Factory Mutual Engineering Association		

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
N45172 A: Required by the Provisions of the ASME Code, Section III, Div. 1 VALCOR NO. 758 49

1. Manufactured by Valcor Engineering Corp., Springfield, New Jersey
(Name and Address of N Certificate Holder)
2. Manufactured for Toledo Edison, Toledo, OH
(Name and Address of Purchaser or Owner)
3. Location of Installation Davis-Besse Station, Oak Harbor, Ohio
(Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 1 (inches) Outlet Size 1 (inches)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1) <u>218630001</u>	<u>13</u>	<u>NA</u>	<u>218630001</u>	<u>1</u>	<u>NA</u>	<u>1990</u>
(2) _____	_____	_____	_____	_____	_____	_____
(3) _____	_____	_____	_____	_____	_____	_____
(4) _____	_____	_____	_____	_____	_____	_____
(5) _____	_____	_____	_____	_____	_____	_____
(6) _____	_____	_____	_____	_____	_____	_____
(7) _____	_____	_____	_____	_____	_____	_____
(8) _____	_____	_____	_____	_____	_____	_____
(9) _____	_____	_____	_____	_____	_____	_____
(10) _____	_____	_____	_____	_____	_____	_____

5. For water and steam service operating at 2500 PSIG at 600 F.
(Brief description of service for which equipment was designed)

6. Design Conditions 3660 psi 670 °F or Valve Pressure Class --- (1)
(Pressure) (Temperature)
7. Cold Working Pressure 6000 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
<u>NA</u>			
(b) Forgings			
<u>NA</u>			

(1) For manually operated valves only.

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each additional sheet shall be signed by the Certificate Holder and the A.N.I.

psc 4074

VALCOR NO. 758			
Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
NA			
(d) Other Parts			
V52610-6042-1	SA-240 type 316	Jessop	Lot # N975NU
V52638-15	SA-312 type 316	Combustion	Lot # Q493NU
V52619-6042-1	SA-479 type 316	Cartech	Lot # N317NU
V52646-6040-17	SA-479 type 316	Cartech	Lot # K182NU

9. Hydrostatic test 9025 psi. Disk Differential test pressure 6625 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 1980.
 Addenda NA Code Case No. NA Date 01/26/90
 Signed Valcor Engineering Corp. By [Signature]
 (In Certificate Holder)
 Our ASME Certificate of Authorization No. 1076 to use the N symbol expires 5-6-90
 (Date)

CERTIFICATION OF DESIGN

Design information on file at Valcor Engineering Corp.
 Stress analysis report (Class I only) on file at Valcor Engineering Corp.
 Design specifications certified by (1) WILLIAM G. GORDON
 PE State PENNSYLVANIA Reg. No. 13916-E
 Stress analysis certified by (1) GURMIT S. DAHLIWA
 PE State NEW JERSEY Reg. No. 20479
 (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 New Jersey and employed by Factory Mutual System of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on January, 26 1990, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III. *Allendale Ins. Co.

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 January 26 1990
[Signature] (Inspector) Commissions N7835
 (Nat'l 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 11/22/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
 2. Plant Davis-Besse Nuclear Power Station Unit #1
5501 N. SR 2, Oak Harbor, OH 43449 MWO 2-90-0046-02
 Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems RC-10 PRESSURIZER SPRAY MOTOR ISOLATION VALVE
 5. (a) Applicable Construction Code ASME III CL1 * Edition 19 86 Addendum N/A Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities VELAN INC./TOLEDO EDISON

6. Identification of Components Repaired or Replaced and Replacement Component's

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
RC-10	VELAN	150305	N/A	N/A	1972	REPLACED	Yes
RC-10	VELAN	942001-1	N/A	N/A	1994	REPLACEMENT	Yes
PS-H37	TOLEDO EDISON	N/A	N/A	N/A	N/A	REPLACEMENT	No

7. Description of Work

Removed solid wedged valve RC-10 (ser# 150305) and replaced with a new valve (ser# 942001-1) which has a flexible wedge. New valve was welded, radiographed, liquid penetrant examined, and hydrostatically tested to 2199 psig. Hanger PS-H37 (valve yoke attachment) was modified per DCN M-190-HBW-136-3 and a VT-3 performed.

* 5(a) ANSI B31.1, 1967

8. Tests Conducted: Hydrostatic (YES) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure 2199 psi Test Temperature >500 °F

Pressure Relief Valves:

Service n/a Size n/a
 Opening Pressure n/a Blowdown (if applicable) n/a
 Set Pressure and Blowdown Adjustments Made Using n/a
 at n/a (Test Medium)

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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		Page 2 of 2
9. REMARKS		Applicable Manufacturers Data Reports to be Attached
Velan NPV-1 (two pages)		
CERTIFICATE OF COMPLIANCE		
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code Section XI.		
Type Code Symbol <u>NR</u>	Certificate of Authorization No. <u>20</u>	Expiration Date <u>7-17-95</u>
Signed <u>C. A. Hawley</u> <small>Owner or Owner's Designee, Title</small>		Quality Control Manager Date <u>Nov. 22</u> 19 <u>94</u>
CERTIFICATE OF INSERVICE 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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> have inspected the components described in this Owner's Report during the period <u>9/6/94</u> to <u>11/22/94</u> , 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.		
<u>Thomas H. Lepa</u> <small>Inspector's Signature</small>	<u>Nov. 22, 1994</u> <small>Date</small>	Commissions <u>NB 9330 "OHIO COMMISSION"</u> <small>National Board, State, Province and Endorsements</small>
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 publications NB-65 and NB-102, current editions.		
Certificate of Authorization No. <u>316</u>	to use the "VR" stamp expires <u>Dec. 13</u> 19 <u>95</u>	
Certificate of Authorization No. <u>20</u>	to use the "NR" stamp expires <u>July 17</u> 19 <u>95</u>	
Date _____, 19____	Signed <u>Toledo Edison</u> <small>Repair Organization</small>	<u>Quality Control Mgr.</u> <small>Authorized Representative Title</small>
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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> 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.		
Authorized Inspector's Signature _____	Date _____	Commissions _____ <small>National Board, State, Province and Endorsements</small>
* Factory Mutual Engineering Association		

FORM NPV-1 (Back — Pg. 2 of 2)

942001

Certificate Holder's Serial No.

8. Design conditions 2500 psi 670 °F or valve pressure class N/A (1)
(pressure) (temperature)

9. Cold working pressure _____ psi at 100°F

10. Hydrostatic test 5775 psi. Disk differential test pressure 2525 psi
(SHELL)

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by MARK A. HARRIS P.E. State OHIO, USA Reg. no. E-053281
Design Report certified by S. ISBITSKY P.E. State PQ, CANADA Reg. no. 22115

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2797-2 (N) Expires 2 MAY 1995

Date 15 July 84 Name VELAN INC. Signed E.C. BUGUIS
(N Certificate Holder) (authorized representative)

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 Quebec and employed by Velan of Quebec have inspected the pump, or valve, described in this Data Report on July 15-84, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component 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 24/07/84 Signed Benoit Fradette Commissions BENOIT FRADETTE
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

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 <u>Toledo Edison Company</u> <small>Name</small>	Date <u>1/10/95</u>
<u>300 Madison Ave. Toledo, OH 43652</u> <small>Address</small>	Sheet 1 of 2
2. Plant <u>Davis-Besse Nuclear Power Station</u> <small>Name</small>	Unit <u># 1</u>
<u>5501 N. SR 2, Oak Harbor, OH 43449</u> <small>Address</small>	<u>MWO 2-90-0046-02</u> <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed By <u>Toledo Edison Company</u> <small>Name</small>	Type Code Stamp <u>NR</u>
<u>5501 N. SR 2, Oak Harbor, OH 43449</u> <small>Address</small>	Authorization NO. <u>20</u>
	Expiration Date <u>1-95</u>
4. Identification of Systems <u>PRESSURIZER SPRAY LINE</u>	
5. (a) Applicable Construction Code <u>ANSI B31.1</u> Edition 19 <u>67</u> Addendum <u>N/A</u> Code Case <u>1/A</u>	
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements, 19 <u>86</u>	
(c) Design Responsibilities <u>TOLEDO EDISON</u>	

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
PS-H5	TOLEDO EDISON	N/A	N/A	N/A	N/A	REPLACEMENT	No
PS-H22	TOLEDO EDISON	N/A	N/A	N/A	N/A	REPLACEMENT	No
PS-H23	TOLEDO EDISON	N/A	N/A	N/A	N/A	REPLACEMENT	No
PS-H33	TOLEDO EDISON	N/A	N/A	N/A	N/A	REPLACEMENT	No
PS-H35	TOLEDO EDISON	N/A	N/A	N/A	N/A	REPLACEMENT	No

7. Description of Work

ADJUSTED SPRING CAN SETTING ON THE FOLLOWING HANGERS PER REFERENCED DCN:

PS-H5	DCN M-190-HBW-104-4
PS-H22	DCN M-190-HBW-121-4
PS-H23	DCN M-190-HBW-122-5
PS-H33	DCN M-190-HBW-132-7
PS-H35	DCN M-190-HBW134-5

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service <u>N/A</u>	Size <u>N/A</u>
Opening Pressure <u>N/A</u>	Blowdown (if applicable) <u>N/A</u>
Set Pressure and Blowdown Adjustments Made Using <u>N/A</u>	
at <u>N/A</u>	

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 11" x 17" or larger, (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 11/15/94
Name
300 Madison Ave., Toledo, OH 43652
Address
 2. Plant Davis-Besse Nuclear Power Station Unit # 1
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems MAIN STEAM FROM OTSG # 1-2 SUS# 083-01
 5. (a) Applicable Construction Code ANSI B31.1 Edition 19 89 Addendum N/A Code Case N/A
 (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 Replaced or Replacement	ASME Code Stamped
SEE BLOCK "7"							

7. Description of Work

MODIFIED EXISTING PIPE SUPPORT 3AEBB1-H1 PER MOD 92-00008 TO ACCOMMODATE FUTURE REPLACEMENT OF ATMOSPHERIC VENT VALVE. VT-3 EXAM WAS PERFORMED SATISFACTORILY ON COMPLETED MODIFICATION.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11 in. or larger, (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		Page 2 of 2
9. REMARKS		Applicable Manufacturers Data Reports to be Attached
NONE		
CERTIFICATE OF COMPLIANCE		
<p>We certify that the statements made in the report are correct and this MODIFICATION conforms to the rules of the ASME Code Section XI.</p>		
Type Code Symbol <u>NB</u>	Certificate of Authorization No. <u>20</u>	Expiration Date <u>7-17-95</u>
Signed <u>C. A. Hawley</u> <small>Owner or Owner's Designee, Title</small>		Quality Control Manager Date <u>Nov 15</u> 19 <u>94</u>
CERTIFICATE OF INSERVICE INSPECTION		
<p>I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors in the State or Province of <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> have inspected the components described in this Owner's Report during the period <u>11/26/94</u> to <u>11/16/94</u>, 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.</p>		
<p>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.</p>		
<u>Thomas H. Lape</u> <small>Inspector's Signature</small>	<u>Nov 16 1994</u> <small>Date</small>	Commissions <u>NB-9330</u> <u>OHIO COMMISSION</u> <small>National Board, State, Province and Endorsements</small>
CERTIFICATE OF COMPLIANCE		
<p>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 publications NB-65 and NB-102, current editions.</p>		
Certificate of Authorization No. <u>316</u>	to use the "VR" stamp expires <u>Dec. 13</u> 19 <u>95</u>	
Certificate of Authorization No. <u>20</u>	to use the "NR" stamp expires <u>July 17</u> 19 <u>95</u>	
Date _____ 19 ____	Signed <u>Toledo Edison</u> <small>Repair Organization</small>	<u>Quality Control Mgr.</u> <small>Authorized Representative Title</small>
CERTIFICATE OF INSPECTION		
<p>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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> have inspected the repair, modification, or replacement described in this report:</p>		
<p>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.</p>		
<p>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.</p>		
Authorized Inspector's Signature _____	Date _____	Commissions _____ <small>National Board, State, Province and Endorsements</small>
* Factory Mutual Engineering Association		

FORM NIS-2 / NR-1 / ~~N/A~~ 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 11/15/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 2-92-0008-10
3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Expiration Date 7-17-95
4. Identification of Systems MAIN STEAM FROM OTSG # 1-1 SUS# 083-01
5. (a) Applicable Construction Code ANSI B31.1 Edition 19 89 Addendum N/A Code Case N/A
(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 Replaced or Replacement	ASME Code Stamped
SEE BLOCK "7"							

7. Description of Work

MODIFIED EXISTING PIPE SUPPORT 3AEBB1-H3 PER MOD 92-00008 TO ACCOMMODATE FUTURE REPLACEMENT OF ATMOSPHERIC VENT VALVE. VT-3 EXAM WAS PERFORMED SATISFACTORILY ON COMPLETED MODIFICATION.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
Opening Pressure N/A Blowdown (if applicable) N/A
Set Pressure and Blowdown Adjustments Made Using N/A
at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) title and reference 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.

FORM NIS-2/NR-1 / NVR-1

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

NONE

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C. A. Hawley ⁴⁰ Quality Control Manager Date Nov. 15 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 9/26/94 to 11/16/94, 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.

Thomas S. Papa NOV 16 1994 Commissions NB 4330 "OHIO COMMISSION"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 1995

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 1995

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature _____ Date _____ Commissions _____
National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

FORM NIS-2 / NR-1 / NIS-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 11/15/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
 2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO 3-94-4519-01
 Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems Main Steam Line # 2 Isolation Valve MS100 (Subsys 083-01)
 5. (a) Applicable Construction Code ASME III CL2 Edition 19 71 Addendum Summer 71 Code Case No
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities Rockwell International Corp, Nova Machine Product Inc.

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
36" Valve	Rockwell International	KB-69	108	MS 100	1974	Repaired	Yes
4 - 2" Studs	Nova Machine Product	HT # K1647	No	N/A	1994	Replacement	No
1 - 2" Nut	Nova Machine Product	HT Code VH9	No	HT# 8097360	1994	Replacement	No
3 - 2" Nuts	Nova Machine Product	HT Code LBJ	No	HT# T7208	1994	Replacement	No
22 - 2" Nuts	Nova Machine Product	HT Code U6T	No	HT# T7208	1994	Replacement	No

7. Description of Work

Valve was disassembled, performed weld repair on circumferential grooves in valve body bore. Magnetic partical exam was performed on weld area after repairs. Cleaned and reassembled valve, replaced 4 - 2"x 13 11/16" studs, and 26 - 2" heavy hex nuts.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

None

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.

Type Code Symbol NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C. A. Hawley Quality Control Manager Date Nov. 15 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 10/16/94 to 11/16/94, 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.

Thomas H. Laps Nov. 16, 1994 Commissions NB 9330 "OHIO COMMISSION"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature Date Commissions _____
National Board, State, Province and Endorsements

FORM NR-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 2/10/94
Name
300 Madison Ave., Toledo, OH 43652
Address
2. Plant Davis-Besse Nuclear Power Station Unit # 1
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
3. Work Performed By Toledo Edison Company Type Code Stamp NR / VR
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
- Repair Organization F.O. No., Job No., etc. MWO 3-93-4805-01
- Authorization NO. 20 / 316
- Expiration Date 7-17-95 / 12-13-92 ⁹⁵ *CAK 2/11/94*
4. Identification of Systems Pressurizer Code Safety Relief Valve (Spare Valve)
5. (a) Applicable Construction Code ASME III CL1 Edition 19 74 Addendum S74 Code Case N/A
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
- (c) Design Responsibilities Crosby Valve & Gage 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
Safety Valve	Crosby Valve	N59303-00-0001	N/A	N/A	1978	Repaired	Yes

7. Description of Work

The above valve was tested, disassembled, cleaned and reassembled by Toledo Edison personnel at Wyle Laboratory. No pressure boundary parts were replaced during this repair, (as identified on the original Manufactures Data Report).

After repairs, valve was tested by Wyle Laboratory, valve tested satisfactory.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service Steam Size 4" X 6"
 Opening Pressure 2512 PSIG Blowdown (if applicable) 2359 PSIG
 Set Pressure and Blowdown Adjustments Made Using Saturated Steam
 at Wyle Laboratory, Huntsville Al

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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		Page 2 of 2
9. REMARKS		Applicable Manufacturers Data Reports to be Attached
N/A		
CERTIFICATE OF COMPLIANCE		
We certify that the statements made in the report are correct and this <u>repair</u> conforms to the rules of the ASME Code Section XI.		
Type Code Symbol <u>NR</u>	Certificate of Authorization No. <u>20</u>	Expiration Date <u>7-17-95</u>
Signed _____ Owner or Owner's Designee, Title		Quality Control Manager Date _____ 19____
CERTIFICATE OF INSERVICE 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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> have inspected the components described in this Owner's Report during the period _____ to _____, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.		
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.		
Inspector's Signature _____	Date _____	Commissions _____ 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 publications NB-65 and NB-102, current editions.		
Certificate of Authorization No. <u>316</u>	to use the "VR" stamp expires <u>Dec. 13</u> , 19 <u>95</u>	
Certificate of Authorization No. <u>20</u>	to use the "NR" stamp expires <u>July 17</u> , 19 <u>95</u>	
Date <u>2/1</u> , 19 <u>94</u>	Signed <u>Toledo Edison</u> Repair Organization	<u>[Signature]</u> Quality Control Mgr. Authorized Representative Title
CERTIFICATE OF INSPECTION		
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> have inspected the repair, modification, or replacement described in this report		
on <u>FEB. 14</u> , 19 <u>94</u> 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.		
<u>Thomas S. Lupa</u> Authorized Inspector's Signature	<u>2/14/94</u> Date	Commissions <u>OHIO COMMISSION</u> National Board, State, Province and Endorsements
* Factory Mutual Engineering Association		

FORM ~~NR-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 2/10/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO 3-93-4642-01
Repair Organization P.O. No., Job No., etc.
3. Work Performed By Toledo Edison Company Type Code Stamp NR / VR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20 / 316
Expiration Date 7-17-95 / 12-13-92 *95 COR 4/1/95*
4. Identification of Systems Pressurizer Code Safety Relief Valve (Spare Valve)
5. (a) Applicable Construction Code ASME III CL1 Edition 19 68 Addendum S70 Code Case N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
(c) Design Responsibilities Crosby Valve & Gage 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
Safety Valve	Crosby Valve	N54891-00-0002	N/A	N/A	1976	Repaired	Yes

7. Description of Work

The above valve was tested, disassembled, repaired and reassembled by Toledo Edison personnel at Wyle Laboratory. The following pressure boundary parts were replaced during this repair, nozzle (serial # N94143-32-0006) and disc insert (serial # N94145-35-0009).
After repairs, valve was tested by Wyle Laboratory, valve tested satisfactory.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service Steam Size 4" X 6"
Opening Pressure 2506 PSIG Blowdown (if applicable) 2372 PSIG
Set Pressure and Blowdown Adjustments Made Using Saturated Steam
at Wyle Laboratory, Huntsville AL

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 4 1/2" x 11" or larger, (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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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.

Type Code Symbol NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed _____ Quality Control Manager Date _____ 19____
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period _____ to _____, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature _____ Date _____ Commissions _____
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 1995

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 1995

Date 2/11, 1994 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 Arkwright * of Norwood, Mass. have inspected the repair, modification, or replacement described in this report

on FEB. 14, 1994 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.

Thomas Y. Lupo _____ 2/14/94 Commissions OHIO COMMISSION
Authorized Inspector's Signature Date National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

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 10/31/94
Name
300 Madison Ave., Toledo, OH 43652
Address
 Sheet 1 of 2
 2. Plant Davis-Besse Nuclear Power Station Unit # 1
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
7-93-0204-02
Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems MAIN STEAM-STEAM GENERATOR 1-2 EBB-1-SR-4 (C-169)
 5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum No Code Case NONE
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 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 Replaced or Replacement	ASME Code Stamped
SNUBBER	LISEGA	61233/38	N/A	C-169	N/A	REPLACED	No
SNUBBER	LISEGA	61252/54	N/A	C-169	N/A	REPLACEMENT	No

7. Description of Work

LISEGA SNUBBER S/N 61233/38 WAS REMOVED FROM HANGER EBB-1-SR-4. LISEGA SNUBBER S/N 61252/54 HAS BEEN INSTALLED AS A REPLACEMENT FOR S/N 61233/38. S/N 61252/54 WAS PURCHASED VIA THE WAREHOUSE STOCK CODE NUMBER 82-0601, PICK TICKET NUMBER 9411100022. SNUBBER WAS FUNCTIONALLY TESTED UNDER MWO # 7-93-0204-02 PRIOR TO INSTALLATION.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided all size in 4 1/2 x 11 in. (114 mm x 279 mm) information in items 1 through 6 on this report is included on each sheet, and the sheet is numbered sequentially. The number of sheets is recorded at the top of this form.

FORM NIS-2 /NR-1 /NVR-1

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C.A. Hawley ⁴⁵ Quality Control Manager Date Oct. 31 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 5/17/93 to 11/1/94, 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.

Thomas G. Lupa
Inspector's Signature

11/1/94
Date

Commissions NB9330 "OHIO COMMISSION"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions _____
National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

FORM NIS-2 / NR-1 / ~~NYR-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 7/26/93
300 Madison Ave. Toledo, OH 43652 Sheet 1 of 3
 2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO# 7-93-0328-01
 Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Core Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems CONTAINMENT D/P ISOLATION VALVE CV-0624B SUS# 060-02
 5. (a) Applicable Construction Code ASME III CL2 Edition 19 71 Addendum WINT.72 Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities VELAN ENGINEERING COMPANY

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
CV-0624B	VELAN	432-34	N/A	3/4" WB GATE	1976	REPLACEMENT	Yes

7. Description of Work

OLD VALVE WAS CUT OUT OF SYSTEM DUE TO DAMAGE SUSTAINED DURING TESTING. NEW VALVE BODY WAS INSTALLED IN SYSTEM BY WELDING. THE OLD/ORIGINAL VALVE BONNET WAS INSTALLED ON NEW VALVE BODY AND THEN SEAL WELDED TOGETHER. NEW VALVE BODY IS FROM COMPLETE VALVE WITH SERIAL NUMBER 432-34. ORIGINAL EXISTING VALVE WAS SERIAL NUMBER 432-23, OF WHICH BONNET IS FROM.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F
 Pressure Relief Valves:
 Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A (Test Medium)

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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		Page 2 of 3
9. REMARKS Applicable Manufacturers Data Reports to be Attached		
FORM NPV-1 FOR NEW VALVE IS ATTACHED.		
CERTIFICATE OF COMPLIANCE		
We certify that the statements made in the report are correct and this <u>replacement</u> conforms to the rules of the ASME Code Section XI.		
Type Code Symbol <u>NR</u>	Certificate of Authorization No. <u>20</u>	Expiration Date <u>7-17-95</u>
Signed <u>Charles A. Wright</u> Quality Control Manager		Date <u>7/28</u> 19 <u>93</u>
CERTIFICATE OF INSERVICE 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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> have inspected the components described in this Owner's Report during the period <u>7/6/93</u> to <u>7/29/93</u> , 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.		
<u>Thomas H. Lapa</u> Inspector's Signature	<u>7/29/93</u> Date	Commissions <u>OHIO COMM.</u> 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 publications NB-65 and NB-102, current editions.		
Certificate of Authorization No. <u>316</u> to use the "VR" stamp expires <u>Dec. 13</u> 19 <u>95</u>		
Certificate of Authorization No. <u>20</u> to use the "NR" stamp expires <u>July 17</u> 19 <u>95</u>		
Date _____, 19____	Signed <u>Toledo Edison</u> Repair Organization	<u>Quality Control Mgr.</u> 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 <u>Ohio</u> and employed by <u>Arkwright *</u> of <u>Norwood, Mass.</u> 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.		
Authorized Inspector's Signature	Date	Commissions _____ National Board, State, Province and Endorsements
* Factory Mutual Engineering Association		

PAGE 3 OF 3

VELAN ENGINEERING COMPANIES

FORM NPV - 1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VALVES
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES

750432

Manufactured by VELAN ENGINEERING LTD., 2135 Ward Ave., Montreal Order No. P1-1186-M ITEM: 129
 Purchased for: TOLBO ENGINE COMPANY Contract No. Q-162
 Location of Plant: TOLBO ENGINE CO. INC.
 Valve Identification: DAVID-BENSE TRIT 1 CONSTRUCTION
 Valve Identification: 36" WB GATE VALVE 1500 CL 913 S/W QTY: 12
 Drawing No. PL1844-30 REV M Prepared By: VELAN ENG. CO. LTD. MONTREAL, QUEBEC
 Design Conditions: 3600 psi 100 °F
 (Pressure) (Temperature)

The material, design, construction and workmanship comply with ASME Code Section III, Class 2
 Edition 1973 Appendix first WINTER 1973 Case No. PANA 100-111-1 DTSC

[illegible]

HYDRASTATIC TEST 5400

CERTIFICATION OF DESIGN

Design information on file at WELAN ENGINEERING CORPORATION
 Stress analysis report on file at WELAN ENGINEERING CORPORATION
 Design specifications certified by A. W. WILK Pres. Inc. Prov. MD Gen. No. 5000
 Stress analysis report certified by A. W. WILK Pres. Inc. Prov. MD Reg. No. 16412
 We certify that the statements made in this report are correct
 Date 18 - June 19 76 Signed WELAN ENGINEERING CORPORATION By [Signature]
 Certificate of Authorization No. 649 November 30, 1976.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the Province of
District Quebec and employed by Industrial Inc. Canada at Quebec have inspected the equipment described
in this State Report on June 18 1976, and state 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, nor in any manner, expressed or implied, concerning the
equipment described in this State Report, furthermore, neither the Inspector nor his employer shall be liable in any manner for any per-
sonal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date June 18 1976
Inspector
Commission # 219-667-588
Mechanical Engineer - General Inspection and Testing

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 9/29/94
Name
300 Madison Ave., Toledo, OH 43652
Address
 Sheet 1 of 2

2. Plant Davis-Besse Nuclear Power Station Unit # 1
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
7-94-0599-02
Repair Organization P.O. No., Job No., etc.

3. Work Performed By Toledo Edison Company Type Code Stamp NR
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
 Authorization NO. 20
 Expiration Date 7-17-95

4. Identification of Systems DECAY HEATPUMP 1-2 SUCTION (33A-GCB-8-H10) A-94

5. (a) Applicable Construction Code ANSI B31.1 Edition 19 71 Addendum No Code Case None
 (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
SNUBBER	ITT GRINNELL	7981	N/A	A-94	N/A	REPLACED	No
SNUBBER	ITT GRINNELL	12184	N/A	A-94	N/A	REPLACEMENT	No

7. Description of Work

ITT GRINNELL HYDRAULIC SNUBBER S/N 7981 WAS REMOVED AND REPLACED WITH LIKE-FOR-LIKE SNUBBER S/N 12184. REPLACEMENT SNUBBER S/N 12184 WAS REBUILT UNDER MWO # 7-91-04/09-01 AND WAS FUNCTIONALLY TESTED SATISFACTORILY.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)

Pressure N/A psi

Test Temperature N/A °F

Pressure Relief Valves:

Service N/A

Size N/A

Opening Pressure N/A

Blowdown (if applicable) N/A

Set Pressure and Blowdown Adjustments Made Using N/A

at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 11" x 17" or larger, (2) information in items 1 through 5 on this report is included on each sheet, and (3) each sheet is numbered and the total number of sheets is recorded at the top of this form.

FORM NIS-2 /NR-1 / NVR-1

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed [Signature] Quality Control Manager Date 9/30 19 94
Owner of 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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 8-30-94 to 9-30-94, 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

9-30-94
Date

Commissions NB 9501 "OHio C-1000"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions _____
National Board, State, Province and Endorsements

FORM NIS-2 / NR-1 / ~~NIR~~ OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo Edison Company Date 9/30/94
Name
300 Madison Ave., Toledo, OH 43652
Address

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

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

Authorization NO. 20
 Expiration Date 7-17-95

4. Identification of Systems DECAY HEAT PUMP 1-2 SUCTION LINE (33A-GCB-8-H15) A-95

5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum N/A Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities ITT GRINNELL

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
SNUBBER	ITT GRINNELL	17591	N/A	A-95	N/A	REPLACED	No
SNUBBER	ITT GRINNELL	13270	N/A	A-95	N/A	REPLACEMENT	No

7. Description of Work

ITT GRINNELL HYDRAULIC SNUBBER S/N 17591 WAS REMOVED AND REPLACED WITH LIKE-FOR-LIKE SNUBBER S/N 13270. REPLACEMENT SNUBBER S/N 13270 WAS REBUILT UNDER MWO# 1-91-1707-01 AND WAS FUNCTIONALLY TESTED SATISFACTORILY.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:
 Service N/A Size N/A
 Opening Pressure N/A Blowdown (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided they are provided in the form of a separate sheet. Information in items 1 through 6 on this report is included on each sheet, and on each sheet the number of sheets is recorded at the top of this form.

FORM NIS-2 / NR-1 / ~~NVR-1~~

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

NONE

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed Charles L. Hardy Quality Control Manager Date 9/30 1994
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 8/30/94 to 9/30/94, 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.

Thomas J. Lepa
Inspector's Signature

9/30/94
Date

Commissions NB9330 "OHIO COMMISSION"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 1995

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 1995

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions

National Board, State, Province and Endorsements

FORM NIS-2 / NR-1 / ~~NR-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 9/19/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 7-94-0599-09
Repair Organization P.O. No., Job No., etc.
3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Expiration Date 7-17-95
4. Identification of Systems Decay Heat Pump 1-1 Suction (33A-GCB-8-H12) A-115
5. (a) Applicable Construction Code ANSI B31.1 Edition 19 87 Addendum N/A Code Case N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
(c) Design Responsibilities ITT Grinnell

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
Snubber	ITT Grinnell	17190	N/A	A-115	N/A	Replaced	No
Snubber	ITT Grinnell	16801	N/A	A-115	N/A	Replacement	No

7. Description of Work

ITT Grinnell Hydraulic snubber S/N 17190 was removed and replaced with like for like snubber S/N 16801.
Replacement snubber S/N 16801 was rebuilt under MWO 1-93-0183-00 and was functionally tested satisfactory.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
Pressure N/A psi Test Temperature N/A °F
Pressure Relief Valves:
Service N/A Size N/A
Opening Pressure N/A Blowdown (if applicable) N/A
Set Pressure and Blowdown Adjustments Made Using N/A
at N/A (Test Medium)

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed [Signature] Quality Control Manager Date 9/21 19 94

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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 8-30-94 to 9-21-94, 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

9-21-94
Date

Commissions NB9801 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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions

National Board, State, Province and Endorsements

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

As Required by the Provisions of the ASME Code Section XI

1. Owner <u>Toledo Edison Company</u> <small>Name</small>	Date <u>9/20/94</u>
<u>300 Madison Ave. Toledo, OH 43652</u> <small>Address</small>	Sheet 1 of 2
2. Plant <u>Davis-Besse Nuclear Power Station</u> <small>Name</small>	Unit <u># 1</u>
<u>5501 N. SR 2, Oak Harbor, OH 43449</u> <small>Address</small>	<u>MWO # 7-94-0599-10</u> <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed By <u>Toledo Edison Company</u> <small>Name</small>	Type Code Stamp <u>NR</u>
<u>5501 N. SR 2, Oak Harbor, OH 43449</u> <small>Address</small>	Authorization NO. <u>20</u>
	Expiration Date <u>7-17-95</u>
4. Identification of Systems <u>CTMT Spray System (33B-HCB-3-H10) A120</u>	
5. (a) Applicable Construction Code <u>ANSI B31.1</u> Edition 19 <u>67</u> Addendum <u>N/A</u> Code Case <u>N/A</u>	
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>86</u>	
(c) Design Responsibilities <u>ITT Grinnell</u>	

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
Snubber	ITT Grinnell	16779	N/A	A120	N/A	Replaced	No
Snubber	ITT Grinnell	14483	N/A	A120	N/A	Replacement	No

7. Description of Work

ITT Grinnell hydraulic snubber S/N # 16779 was removed and replaced with a like for like snubber S/N # 14483.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO)	Nominal Operating Pressure (NO)	Other (NO)
Pressure <u>N/A</u> psi	Test Temperature <u>N/A</u> °F	
Pressure Relief Valves:		
Service <u>N/A</u>	Size <u>N/A</u>	
Opening Pressure <u>N/A</u>	Blowdown (if applicable) <u>N/A</u>	
Set Pressure and Blowdown Adjustments Made Using <u>N/A</u>		
at <u>N/A</u>		

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

FORM NIS-2 / NR-1 / NVR-1

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed [Signature] Quality Control Manager Date 9/21 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 8-30-94 to 9-21-94, 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

9-2-94
Date

Commissions NR 9801 "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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions

National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

FORM NIS-2 / NR-1 / ~~NR-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 9/20/94
300 Madison Ave., Toledo, OH 43652 Sheet 1 of 2
2. Plant Davis-Besse Nuclear Power Station Unit # 1
5501 N. SR 2, Oak Harbor, OH 43449 MWO # 7-94-0599-14
Repair Organization P.O. No., Job No., etc.
3. Work Performed By Toledo Edison Company Type Code Stamp NR
5501 N. SR 2, Oak Harbor, OH 43449 Authorization NO. 20
Expiration Date 7-17-95
4. Identification of Systems CTMT Spray System (33B-HCB-3-H12) A121
5. (a) Applicable Construction Code ANSI B31.1 Edition 19 67 Addendum N/A Code Case N/A
(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
Snubber	ITT Grinnell	14145	N/A	A121	N/A	Replaced	No
Snubber	ITT Grinnell	14500	N/A	A121	N/A	Replacement	No

7. Description of Work

ITT Grinnell hydraulic snubber S/N # 14145 was removed and replaced with a like for like snubber S/N # 14500.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
Opening Pressure N/A Blowdown (if applicable) N/A
Set Pressure and Blowdown Adjustments Made Using N/A
at N/A

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) side of the 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.

FORM NIS-2 / NR-1 / NVR-1

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

N/A

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 NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed [Signature] Quality Control Manager Date 9/21 1994
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 8-30-94 to 9-21-94, 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] 9-21-94 Commissions NB 98-21 "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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13, 1995

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17, 1995

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature Date Commissions _____
National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

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 11/16/94
Name
300 Madison Ave. Toledo, OH 43652
Address
 Sheet 1 of 2
 2. Plant Davis-Besse Nuclear Power Station Unit # 1
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
7-94-1101-01
Repair Organization P.O. No., Job No., etc.
 3. Work Performed By Toledo Edison Company Type Code Stamp NR
Name
5501 N. SR 2, Oak Harbor, OH 43449
Address
 Authorization NO. 20
 Expiration Date 7-17-95
 4. Identification of Systems TW RCO3B3 RC LOOP 1 HLG THERMCWELL
 5. (a) Applicable Construction Code ASME III CL1 Edition 19 74 Addendum SUM 75 Code Case N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
 (c) Design Responsibilities TOLEDO EDISON COMPANY

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
SEE BLK 7							

7. Description of Work

REMOVED SEAL WELD TO BASE METAL DUE TO INDICATIONS FOUND DURING LIQUID PENETRANT EXAMINATION.
 SEAL WELD WAS REWELDED TO A SATISFACTORY CONDITION AND A LIQUID PENETRANT EXAMINATION WAS PERFORMED.

8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Pressure (NO) Other (NO)
 Pressure N/A psi Test Temperature N/A °F

Pressure Relief Valves:

Service N/A Size N/A
 Opening Pressure N/A Blow (if applicable) N/A
 Set Pressure and Blowdown Adjustments Made Using N/A
 at N/A (Test Medium)

NOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 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

Page 2 of 2

9. REMARKS

Applicable Manufacturers Data Reports to be Attached

NONE

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.

Type Code Symbol NR Certificate of Authorization No. 20 Expiration Date 7-17-95

Signed C. A. Hawley ⁹⁰ Quality Control Manager Date Nov. 17 19 94
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 in the State or Province of Ohio and employed by Arkwright * of Norwood, Mass. have inspected the components described in this Owner's Report during the period 10/30/94 to 11/17/94, 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.

Thomas A. Laps
Inspector's Signature

NOV 17, 1994
Date

Commissions NB 9330 "Ohio Commission"
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 publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 316 to use the "VR" stamp expires Dec. 13 19 95

Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 19 95

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 Arkwright * of Norwood, Mass. 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.

Authorized Inspector's Signature

Date

Commissions

National Board, State, Province and Endorsements

* Factory Mutual Engineering Association

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 B. W. NUCLEAR TECHNOLOGIES PER C405600092 TASK 2.2
(name) (repair organization's P.O. no., job no., etc.)
3315 OLD FOREST ROAD P.O. BOX 10935 LYNCHBURG VA 24506
(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
5501 NORTH STATE ROUTE 2, OAK HARBOR, OHIO 43449
4. Identification of system E24-1 PRIMARY SIDE LOWER HANDHOLE 063-01
5. a. Identification of component repaired, modified or replaced E24-1 PRIMARY SIDE LOWER HANDHOLE (OTS6 1-1)
b. Name of manufacturer BABCOCK & WILCOX
c. Identifying nos. 620-0014-55-11 N 15B N/A OTS6 1-1 1972
(mfr.'s serial no.) (Nat'l. Bd. no.) (jurisdictional no.) (other) (year built)
- ① 6. Applicable section(s) XI of ASME Code, 1986 edition N/A addenda NO Code Case X
7. Design responsibilities BABCOCK & WILCOX
8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure _____ psi.
9. Description of work MACHINED THE SEATING SURFACE (CLADDING) AND THE SHELL SURFACE (BOLT AREA)
(use of additional sheet(s) or sketches is acceptable if properly identified)
OF E24-1 PRIMARY SIDE LOWER HANDHOLE (OTS6 1-1 "B" LOWER)

10. Remarks: SEE ATTACHED QCIR 94-2118

* CODE CASE 1332-4 AND 1407-1

① ORIGINAL DESIGN SPEC AND CONSTRUCTION CODE FOR ITEM REPAIRED
ASME SECT III, 1968 EDITION, SUMMER 1968 ADDENDA

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all design, material and workmanship on this REPAIR
(repair, modification or replacement)

Certificate of Authorization no. 64 to use the "NR" stamp expires MAY 17 1997

Signed BWNT FOR REGILL BWNT QA MANAGER 10-27 1994
(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 CHIC and employed by ACKWRIGHT
of NEWBED, MA have inspected the repair, modification or replacement described in this report on ECT 21 1994 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 ECT 21 1994 Signed Thomas J. Japa Commissions NB 433C CHIC COMM
(Authorized Inspector) (Nat'l. Bd. no. (including endorsements), state or province and number)

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 B&W Nuclear Technologies per 605600 D92 Task 3.0
(name) (repair organization's P.O. no., job no., etc.)
3315 Old Forest Road, PO Box 10935, Lynchburg, VA 24206
(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
1501 North State Route 2, Oak Harbor, Ohio 43449
4. Identification of system RCS 055-02
5. Identification of component repaired, modified or replaced Reactor Vessel
b: Name of manufacturer B&W Company
c: Identifying numbers 620-0014-51.52 N-156 N/A * 1972
(mfr.'s serial no.) (Nat'l. bd. no.) (jurisdictional no.) (other) (year built)
6. Applicable section(s) XI of ASME Code, 1986 edition N/A addenda N/A Code Case None
7. Design responsibilities 1) B&W Nuclear Technologies 2) Diamond Power Speciality Corp. 3) Leakage Test
8. Test conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure ☐ psi.
9. Description of work Installed new replacement split rings and hold down bolt assemblies for CRD to RV Flanges at Locations: K3, G5, M3, K5, E13, M9, M11 and O11 (See attached QCIR's PVS 0884 and PVS 0885)
(use of additional sheet(s) is acceptable if properly identified)
10. Remarks:
1) Reactor Vessel and Manufacturer of replacement parts
2) Manufacturer of CRD's
3) Performed by Toledo Edison

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. 66 to use the "NR" stamp expires May 17 1987

Signed BWNT RECEIVED QA Manager Jan. 24 1985
(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 Arkwright ☒ of Norwood, MA have inspected the repair, modification or replacement described in this report on Nov. 12 1984 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 Nov. 14 1984 Signed Thomas G. Lys Commissions NB 4330 "OHIO COMMISSION"
(Inspector) (National Bd. No. including endorsements, state or province and number)

B&W Nuclear Service Company

PAGE 1 OF 5

QUALITY CONTROL INSPECTION REPORT

QCIR # PV30884

WORK ORDER # 4A

1. Purchase Order # N/A Contract # 66056000A2 Supplier BWNT
TOLEDO EDISON Customer DAVIS BESSE Site 10/16/94 Inspection Date
2. Witness Point Hold Point If checked Yes, Reference Document
Yes ☐ No ☐ Yes ☒ No ☐ Requiring Inspection 03-1221681-02
3. Identification of Item Inspected QTY (64) CRDM HOLD DOWN
BOLT ASSY P/N 1006110-005 AND QTY (8) FLANGE RINGS
P/N 1006110-004
4. Inspection Requirements PERFORM VT-1
5. Extent of Inspection NO RELEVANT INDICATIONS FOUND
ACCEPT (64) CRDM HOLD DOWN BOLT ASSY P/N 1006110-005 AND
ACCEPT (8) FLANGE RINGS P/N 1006110-004
6. Description of Measuring & Test Equipment used N/A
- Serial No. N/A Calibration Due Date N/A
7. Inspection Status ☒ Accept ☐ Reject
Rejected Items Reference NCR #
N/A N/A
8. Inspection Performed by: DAVID TOKARSKY II 3647
Print Name Level Insp No*
[Signature] Signature

DISTRIBUTION:
Project Engineer
Division QA Manager
Project File - Original
Document Control

*Inspector No. = last four(4)
digits of Inspector's Social
Security Number.

QCIR PVS 0084
 Page 2 of 5

B&W NUCLEAR TECHNOLOGIES
 INSERVICE INSPECTION PROCEDURE

SUBJECT: VISUAL EXAMINATION FOR VT-1 AND VT-3 METHODS	Procedure No. ISI-366 Rev. 1
	P.Q. No.:

TYPICAL
 ATTACHMENT 2: VISUAL EXAMINATION DATA SHEET

B&W NUCLEAR TECHNOLOGIES		VISUAL EXAMINATION DATA SHEET			
CUSTOMER TOLEDO EDISON / DAVIS BESSE		PROCEDURE 03-1221681-02		EXAM TYPE VT1 VT3	
COMPONENT ★	ID# ★	DWC NO. N/A		FIGURE NO. ★	
EXAM <input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> REMOTE		EQUIPMENT USED GRAY CARD		<input type="checkbox"/> PHOTOGRAPH <input type="checkbox"/> VIDEO TAPE - <input checked="" type="checkbox"/> N/A	
INDICATIONS	SAT	UNSAT	N/A	DESCRIPTION/GENERAL COMMENTS	
1 STRUCTURAL DEFORMATION OR DEGRADATION	DT 10/16/94				
2 MISSING/DETACHED LOOSE ITEMS	DT 10/16/94				
3 CRACKED OR FRACTURED ITEMS	DT 10/16/94				
4 CORROSION	DT 10/16/94				
5 EROSION OR WEAR			DT 10/16/94	NEW PARTS	
6 DAMAGED THREADS	DT 10/16/94				
7 STRUCTURAL DISTORTION/DISPLACEMENT	DT 10/16/94				
8 CRACK LIKE FLAWS	DT 10/16/94				
9 FOREIGN MATERIAL ACCUMULATION	DT 10/16/94				
10 OTHERS			DT 10/16/94	NO RELEVANT INDICATIONS	
EXAMINER D. Tokarsky		LEVEL II		DATE 10/16/94	
EXAMINER		LEVEL		DATE	
REVIEWED BY		LEVEL		DATE	
CUSTOMER		DATE		PQA/NCR NO.	
		AND REVIEW		DATE	

* SEE ATTACHED LIST P/N 1006110-005
 DT 10/16/94

DT 10/16/94
 Page 25 of 26

QCIR PVS-0584
 Page 2 of 5

PAGE 2 OF 2

VT-1 EXAMINATION (PRE-SERVICE)

BWN'T P/N 1006110-005 CRDM HOLD DOWN BOLT ASSEMBLY

HEAT # BG37

S/N s	0848	1137	0723	0906
	1229	1123	1211	1078
	0978	1227	0841	0750
	0769	0842	1067	0751
	0736	0972	1178	64 - TOTAL
	0701	1140	1000	NUMBER OF CRDM
	1099	1163	0953	HOLD DOWN BOLT ASSEMBLIES
	0699	0832	0733	INSPECTED <i>D. Tokarsky</i>
	1082	0966	1355	D. TOKARSKY 10/16/94
	0655	1237	0860	
	0710	1120	1055	
	0970	0760	0866	
	0798	1046	1165	
	1151	1166	0633	
	0793	1051	0885	
	0715	0616	0637	
	0960	0868	0698	
	0674	0725	0711	
	1145	0746	1185	
	0702	0992	0815	DT 10/16/94

Page 4 of 5

B&W NUCLEAR TECHNOLOGIES
 INSERVICE INSPECTION PROCEDURE

SUBJECT: VISUAL EXAMINATION FOR VT-1 AND VT-3 METHODS	Procedure No. ISI-366 Rev. 1
	P.Q. No.:

TYPICAL
 ATTACHMENT 2: VISUAL EXAMINATION DATA SHEET

B&W NUCLEAR TECHNOLOGIES		VISUAL EXAMINATION DATA SHEET			PAGE 1 OF 2
CUSTOMER TOLEDO EDISON/DAVIS BESSE		PROCEDURE 03-1221681-02		EXAM TYPE VT-1 VT-3	
COMPONENT *	ID# *	DWC NO. N/A		FIGURE NO. *	
EXAM <input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> REMOTE		EQUIPMENT USED GRAY CARD		<input type="checkbox"/> PHOTOGRAPH <input type="checkbox"/> VIDEO TAPE - <i>N/A</i>	
INDICATIONS	SAT	UNSAT	N/A	DESCRIPTION/GENERAL COMMENTS	
1 STRUCTURAL DEFORMATION OR DEGRADATION	DT 10/16/94				
2 MISSING/DETACHED LOOSE ITEMS	DT 10/16/94				
3 CRACKED OR FRACTURED ITEMS	DT 10/16/94				
4 CORROSION	DT 10/16/94				
5 EROSION OR WEAR			DT 10/16/94	NEW PARTS	
6 DAMAGED THREADS	DT 10/16/94				
7 STRUCTURAL DISTORTION/DISPLACEMENT	DT 10/16/94				
8 CRACK LINE FLAWS	DT 10/16/94				
9 FOREIGN MATERIAL ACCUMULATION	DT 10/16/94				
10 OTHERS			DT 10/16/94	NO RELEVANT INDICATIONS	
EXAMINER <i>D. T. Karsky</i> D. T. Karsky		LEVEL II		DATE 10/16/94	
EXAMINER		LEVEL		DATE	
REVIEWED BY		LEVEL		DATE PCAQ/PCR NO	
ELECTOR		DATE		ANALYSIS DATE	

* SEE ATTACHED LIST P/N 1006110-004
 DT 10/16/94

DT 10/16/94
 Page 25 of 26

QCIR PVS 0884
Page 5 of 5

PAGE 2 OF 2

VT-1 EXAMINATION (PRE-SERVICE)

BWNT P/N 1006110-004 (FLANGE RING)

HEAT # B 3687

S/N, 133

181

155

191

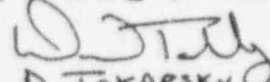
210

217

143

135

8 - TOTAL NUMBER OF FLANGE RINGS INSPECTED


D. TOKARSKY

10/16/94

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 BFW NUCLEAR TECHNOLOGIES (name) PER PO 605600092 TASK 5.1 (repair organization's P.O. no., job no., etc.)
3315 OLD FOREST ROAD, PO BOX 1093, LYNCHBURG VA. 24506 (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
5501 NORTH STATE ROUTE 2, OAK HARBOR OHIO 43449
4. Identification of system OTSG 1-2 063-1
5. a. Identification of component repaired, modified or replaced OTSG 1-2
b. Name of manufacturer BABCOCK & WILCOX
c. Identifying nos. 620-0014-55-12 N-159 N/A OTSG 1-2 1972
(mfr's serial no.) (Nat'l Bd. no.) (jurisdictional no.) (other) (year built)
- * 6. Applicable section(s) XI of ASME Code, 1986 edition N/A addenda NO Code Case N/A ①
7. Design responsibilities BABCOCK & WILCOX
- ** 8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure ☐ psi.
9. Description of work INSTALL SLEEVES IN OTSG TUBES BETWEEN 15TH TSP AND UPPER TUBE
(use of additional sheet(s) or sketches is acceptable if properly identified)
SHEET OF STEAM GENERATOR OTSG 1-2 (A)
10. Remarks: QTY (199) 80" OTSG MECHANICAL TUBE SLEEVES (BWNT P/N 1155282-002)
SEE ATTACHED QCIR 94-2072 AND 94-2115

* ALSO SEE ASME SECTION III 1986 NO ADDENDA AND 1989 CODE CASE N-474-1
* MATERIAL - ASME SECTION II 1968 EDITION WITH SUMMER ADDENDA
* MANUFACTURER - ASME SECTION III 1968 EDITION WITH SUMMER 1968 ADDENDA

** N/A ASME II 1986 NO ADDENDA

① CODE CASE 1332-4 AND 1407-1

CERTIFICATE OF COMPLIANCE

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

Certificate of Authorization no. 64 to use the "NR" stamp expires MAY 17 1997
Signed BWNT (repair organization) [Signature] FOR RB GILL (authorized representative) BWNT QA MANAGER (title) 10-27 1994 (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 AREWRIGHT of NORWOOD, MA, have inspected the repair, modification or replacement described in this report on OCT 29 1994 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 OCT 29 1994 Signed Thomas J. Lips (Inspector) NB9330 "OHIO COMMISSION" (Commission) (Inspector's name, title, state or province and number)

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 BEW NUCLEAR SERVICE COMPANY PER PG C607600 892 TASK # 5.1
(Name) (Owner organization's P.O. no., job no., etc.)
3815 OLD FOREST ROAD, P.O. BOX 10985, LYNCHBURG, VA 24506
(Address)
2. Owner TOLEDO EDISON COMPANY
(Name)
300 MADISON AVENUE, TOLEDO OHIO 43652
(Address)
3. Name, address and identification of nuclear power plant DAVIS BESSIE NUCLEAR POWER STATION
5501 NORTH STATE ROUTE 2, OAK HARBOR OHIO 43449
(Name) (Address)
4. Identification of system OTSG - 1-1 063-01
(System name) (System number)
5. a. Identification of component repaired, modified or replaced OTSG 1-1
b. Name of manufacturer BABCOCK & WILCOX
c. Identifying nos. 630-0014-FF-11 N-158 N/A OTSG 1-1
(Part 1 serial no.) (Part 1 tag no.) (Part 2 tag no.) (Part 3 tag no.) (Part 4 tag no.) (Part 5 tag no.)
6. Applicable section(s) II of ASME Code, 1966 edition, N/A addenda N/A Code Case 4-15-93
(Section number) (Edition) (Addenda) (Code Case)
7. Design responsibilities BABCOCK & WILCOX
(Design responsibility)
8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure ☐ PSI.
(Tests conducted)
9. Description of work INSTALL SLEEVES IN OTSG TUBES BETWEEN 15" TSP AND UPPER TUBE SHEET
(Type of additional sheets or sketches to accompany report, if properly identified)
OF STEAM GENERATOR OTSG 1-1 (B)
10. Remarks: QTY (212) 80" OTSG MECHANICAL TUBE SLEEVES (BURNS P/N 115F881-006)
INSTALLED IN OTSG 1-1, SEE FIELD PROCEDURE FOR ONCE-THROUGH STEAM GENERATOR
TUBE SLEEVING 1154519 A REV. 15 ENCLASURES 1 FOR SLEEVE SERIAL NO.
ALSO SEE ATTACHED (5) PAGES DATED 3/27/93 LISTING: ROW, COL, SERIAL # AND
HEAT #
RE N/A ASME II 1966 N/A ADDENDA
ALSO SEE ASME SECTION II 1966 N/A ADDENDA AND 1989 CODE CASE N-474-1
* MATERIAL - ASME SECTION II 1966 EDITION WITH SUMMER 1966 ADDENDA
* MANUFACTURER - ASME SECTION III 1966 EDITION WITH SUMMER 1966 ADDENDA

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.
Certificate of Authorization no. 64 to use the "NR" stamp expires MAY 17, 1994
Signed BURNS FOR S. DELGADO MANAGER BURNS QA 4-20 1993
(Owner organization) (Inspector) (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. E. B. J. and I. CO.
of SAINT CINCINNATI, OH have inspected the repair, modification or replacement described in this report
on 4-20, 1993 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 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 4-20, 1993 Signed Robert E. Cook Commissions NB-85 (and) Ohio Commission
(Inspector) (Title) (Part 1 tag no. including endorsement state or province and number)

PAGE NO. 1
03/27/93 17:50

Insertion operations complete - Order: To

AFTER DISK 25

ALL FREESAN ROLLS COMPLETE

ETSU Sleeving Database Version
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Sleeving Status Report

Unit	C-#	Row	Col	Sleeve	Sleeve	Bottom Tube Insertion		Insertion	Upper Roll	Upper Roll	Lower		
				Serial #	Heat #	Sleeve OD	Sleeve ID	Roll Fl./ Tool Dia. Exp. Number	Tool Operation	Tool Number	Roll Operation	Tool Number	
00	0	048	123	371-620	764371	0.5270	0.4304	0.4845 .F.	5005119	03/22/93 06:22	5001750	03/23/93 08:42	5005121
00	0	049	124	371-599	764371	0.5266	0.4314	0.4845 .F.	5005119	03/22/93 07:06	5001750	03/23/93 08:47	5005121
00	0	044	126	371-609	764371	0.5274	0.4313	0.4850 .F.	5005119	03/22/93 10:49	5001750	03/23/93 08:51	5005121
00	0	047	001	371-666	764371	0.5265	0.4314	0.4846 .F.	5005119	03/21/93 21:53	5002536	03/22/93 22:45	5005122
00	0	048	001	371-631	764371	0.5269	0.4309	0.4860 .F.	5005119	03/21/93 22:03	5002536	03/22/93 22:56	5005122
00	0	049	002	371-643	764371	0.5273	0.4313	0.4836 .F.	5005119	03/21/93 22:12	5002536	03/22/93 22:58	5005122
00	0	049	001	371-653	764371	0.5265	0.4314	0.4869 .F.	5005119	03/21/93 22:20	5002536	03/22/93 23:00	5005122
00	0	049	002	371-655	764371	0.5263	0.4303	0.4827 .F.	5005119	03/21/93 22:42	5002536	03/22/93 23:01	5005122
00	0	049	003	371-635	764371	0.5264	0.4310	0.4843 .F.	5005119	03/21/93 22:56	5002536	03/22/93 23:03	5005122
00	0	049	004	371-667	764371	0.5260	0.4313	0.4830 .F.	5005119	03/21/93 23:05	5002536	03/22/93 23:05	5005122
00	0	070	001	371-115	764371	0.5272	0.4321	0.4867 .F.	5005119	03/19/93 20:33	5002536	03/22/93 23:07	5005122
00	0	070	002	371-562	764371	0.5280	0.4313	0.4840 .F.	5005119	03/21/93 23:14	5002536	03/22/93 23:10	5005122
00	0	070	003	371-634	764371	0.5272	0.4312	0.4840 .F.	5005119	03/21/93 23:21	5002536	03/22/93 23:12	5005122
00	0	070	004	371-626	764371	0.5256	0.4312	0.4865 .F.	5005119	03/21/93 23:29	5002536	03/22/93 23:14	5005122
00	0	070	005	371-633	764371	0.5270	0.4304	0.4856 .F.	5005119	03/21/93 23:36	5002536	03/22/93 23:15	5005122
00	0	071	001	371-032	764371	0.5269	0.4314	0.4864 .F.	5005119	03/19/93 21:29	5002536	03/22/93 23:17	5005122
00	0	071	002	371-078	764371	0.5264	0.4317	0.4850 .F.	5005119	03/20/93 01:45	5002536	03/22/93 23:19	5005122
00	0	071	003	371-113	764371	0.5263	0.4316	0.4861 .F.	5005119	03/20/93 04:40	5002536	03/22/93 23:20	5005122
00	0	071	004	371-356	764371	0.5272	0.4300	0.4837 .F.	5005119	03/21/93 23:44	5002536	03/22/93 23:21	5005122
00	0	071	005	371-549	764371	0.5277	0.4313	0.4832 .F.	5005119	03/21/93 23:54	5002536	03/22/93 23:24	5005122
00	0	071	006	371-580	764371	0.5270	0.4305	0.4855 .F.	5005119	03/22/93 00:01	5002536	03/22/93 23:26	5005122
00	0	071	007	371-581	764371	0.5279	0.4313	0.4830 .F.	5005119	03/22/93 00:08	5002536	03/22/93 23:28	5005122
00	0	072	001	371-112	764371	0.5274	0.4320	0.4876 .F.	5005119	03/19/93 23:14	5002536	03/22/93 23:31	5005122
00	0	072	002	371-089	764371	0.5271	0.4319	0.4855 .F.	5005119	03/20/93 01:56	5002536	03/22/93 23:32	5005122
00	0	072	003	371-029	764371	0.5273	0.4317	0.4840 .F.	5005119	03/20/93 05:23	5002536	03/22/93 23:33	5005122
00	0	072	004	371-012	764371	0.5278	0.4315	0.4844 .F.	5005119	03/20/93 12:17	5002536	03/22/93 23:35	5005122
00	0	072	005	371-474	764371	0.5257	0.4315	0.4870 .F.	5005119	03/22/93 00:21	5002536	03/22/93 23:36	5005122
00	0	072	006	371-577	764371	0.5272	0.4316	0.4840 .F.	5005119	03/22/93 00:28	5002536	03/22/93 23:38	5005122
00	0	072	007	371-672	764371	0.5264	0.4307	0.4841 .F.	5005119	03/22/93 00:35	5002536	03/22/93 23:39	5005122
00	0	072	008	371-545	764371	0.5270	0.4312	0.4850 .F.	5005119	03/22/93 00:43	5002536	03/22/93 23:41	5005122
00	0	073	001	371-030	764371	0.5267	0.4314	0.4867 .F.	5005119	03/19/93 23:44	5002536	03/22/93 23:43	5005122
00	0	073	002	371-087	764371	0.5260	0.4311	0.4851 .F.	5005119	03/20/93 02:12	5002536	03/22/93 23:45	5005122
00	0	073	003	371-634	764371	0.5268	0.4313	0.4853 .F.	5005119	03/20/93 05:37	5002536	03/22/93 23:46	5005122
00	0	073	004	371-043	764371	0.5271	0.4315	0.4852 .F.	5005119	03/20/93 08:46	5002536	03/22/93 23:47	5005122
00	0	073	005	371-045	764371	0.5272	0.4316	0.4851 .F.	5005119	03/20/93 12:27	5002536	03/22/93 23:49	5005122
00	0	073	006	371-130	764371	0.5272	0.4320	0.4866 .F.	5005119	03/20/93 13:32	5002536	03/22/93 23:51	5005122
00	0	073	007	371-132	764371	0.5265	0.4316	0.4859 .F.	5005119	03/20/93 13:45	5002536	03/22/93 23:52	5005122
00	0	073	008	371-009	764371	0.5273	0.4314	0.4837 .F.	5005119	03/20/93 13:54	5002536	03/23/93 00:00	5005122
00	0	073	009	371-570	764371	0.5273	0.4316	0.4862 .F.	5005119	03/22/93 00:52	5002536	03/23/93 00:01	5005122
00	0	073	010	371-566	764371	0.5266	0.4317	0.4882 .F.	5005119	03/22/93 01:01	5002536	03/23/93 00:03	5005122
00	0	073	011	371-564	764371	0.5253	0.4314	0.4836 .F.	5005119	03/22/93 01:16	5002536	03/23/93 00:04	5005122
00	0	073	012	371-598	764371	0.5265	0.4314	0.4857 .F.	5005119	03/22/93 01:24	5002536	03/23/93 00:06	5005122
00	0	074	001	371-059	764371	0.5263	0.4319	0.4875 .F.	5005119	03/20/93 00:02	5002536	03/23/93 00:08	5005122
00	0	074	002	371-015	764371	0.5270	0.4307	0.4823 .F.	5005119	03/20/93 02:33	5002536	03/23/93 00:10	5005122
00	0	074	003	371-068	764371	0.5276	0.4319	0.4838 .F.	5005119	03/20/93 05:50	5002536	03/23/93 00:11	5005122
00	0	074	004	371-134	764371	0.5264	0.4320	0.4861 .F.	5005119	03/20/93 09:18	5002536	03/23/93 00:12	5005122
00	0	074	005	371-019	764371	0.5267	0.4315	0.4867 .F.	5005119	03/20/93 12:36	5002536	03/23/93 00:13	5005122

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03/27/93

20
Insertion operations complete - Order: Tu

OTSC Slewing Database Version:
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Slewing Status Report

Unit	Gen	Row	Col	Sleeve		Sleeve		Sleeve		Sleeve		Bottom Tube Insertion		Insertion		Upper Roll		Upper Roll		Lower Roll	
				Serial #	Heat #	ID	ID	Dis.	Exp.	Roll Fl.	Tool	Tool	Operation	Tool	Operation	Dis.	Operation	Tool	Operation	Tool	Number
00	0	074	006	371-006	764371	0.5271	0.4319	0.4867	.F.	5005119	03/20/93	14:02	5002536	03/23/93	00:15	500512					
00	0	074	007	371-007	764371	0.5269	0.4320	0.4847	.F.	5005119	03/20/93	14:11	5002536	03/23/93	00:16	500512					
00	0	074	008	371-131	764371	0.5269	0.4318	0.4834	.F.	5005119	03/20/93	15:40	5002536	03/23/93	00:17	500512					
00	0	074	009	371-082	764371	0.5261	0.4312	0.4883	.F.	5005119	03/20/93	15:56	5002536	03/23/93	00:19	500512					
00	0	074	010	371-076	764371	0.5275	0.4316	0.4846	.F.	5005119	03/20/93	16:03	5002536	03/23/93	00:21	500512					
00	2	074	011	371-085	764371	0.5268	0.4307	0.4859	.F.	5005119	03/20/93	16:10	5002536	03/23/93	00:22	500512					
00	0	074	012	371-119	764371	0.5270	0.4318	0.4867	.F.	5005119	03/20/93	17:31	5002536	03/23/93	00:24	500512					
00	0	074	013	371-100	764371	0.5270	0.4316	0.4876	.F.	5005119	03/20/93	18:01	5002536	03/23/93	00:25	500512					
00	0	074	014	371-024	764371	0.5271	0.4316	0.4853	.F.	5005119	03/20/93	18:11	5002536	03/23/93	00:26	500512					
00	0	074	015	371-010	764371	0.5269	0.4312	0.4885	.F.	5005119	03/20/93	18:22	5002536	03/23/93	00:28	500512					
00	0	074	016	371-086	764371	0.5270	0.4320	0.4857	.F.	5005119	03/20/93	23:03	5002536	03/23/93	00:29	500512					
00	0	074	017	371-063	764371	0.5275	0.4320	0.4886	.F.	5005119	03/20/93	23:21	5002536	03/23/93	00:30	500512					
00	0	074	018	371-090	764371	0.5270	0.4317	0.4866	.F.	5005119	03/20/93	23:33	5002536	03/23/93	00:32	500512					
00	0	074	019	371-014	764371	0.5269	0.4315	0.4855	.F.	5005119	03/21/93	02:42	5002536	03/23/93	00:33	500512					
00	0	074	020	371-133	764371	0.5270	0.4312	0.4873	.F.	5005119	03/21/93	02:55	5002536	03/23/93	00:35	500512					
00	0	074	021	371-124	764371	0.5269	0.4312	0.4851	.F.	5005119	03/21/93	03:06	5002536	03/23/93	00:36	500512					
00	0	074	022	371-458	764371	0.5266	0.4313	0.4855	.F.	5005119	03/21/93	03:14	5002536	03/23/93	00:37	500512					
00	0	074	023	371-000	764371	0.5264	0.4307	0.4864	.F.	5005119	03/21/93	04:36	5002536	03/23/93	00:39	500512					
00	0	074	024	371-663	764371	0.5263	0.4303	0.4861	.F.	5005119	03/21/93	04:27	5002536	03/23/93	00:40	500512					
00	0	074	025	371-438	764371	0.5275	0.4310	0.4834	.F.	5005119	03/21/93	04:57	5002536	03/23/93	00:41	500512					
00	0	074	026	371-436	764371	0.5271	0.4313	0.4861	.F.	5005119	03/21/93	04:48	5002536	03/23/93	00:42	500512					
00	0	074	027	371-543	764371	0.5272	0.4311	0.4836	.F.	5005119	03/21/93	12:24	5002536	03/23/93	00:44	500512					
00	0	074	028	371-539	764371	0.5266	0.4313	0.4855	.F.	5005119	03/21/93	12:40	5002536	03/23/93	00:45	500512					
00	0	074	029	371-541	764371	0.5270	0.4301	0.4840	.F.	5005119	03/21/93	10:32	5002536	03/23/93	00:46	500512					
00	0	075	001	371-093	764371	0.5264	0.4306	0.4863	.F.	5005119	03/20/93	00:14	5001750	03/23/93	01:39	500512					
00	0	075	002	371-092	764371	0.5271	0.4317	0.4853	.F.	5005119	03/20/93	02:51	5001750	03/23/93	01:36	500512					
00	0	075	003	371-049	764371	0.5272	0.4312	0.4848	.F.	5005119	03/20/93	06:01	5001750	03/23/93	01:32	500512					
00	0	075	004	371-033	764371	0.5244	0.4315	0.4850	.F.	5005119	03/20/93	09:21	5001750	03/23/93	01:24	500512					
00	0	075	005	371-050	764371	0.5273	0.4318	0.4852	.F.	5005119	03/20/93	12:47	5002536	03/23/93	01:28	500512					
00	0	075	006	371-011	764371	0.5263	0.4307	0.4865	.F.	5005119	03/20/93	14:20	5002536	03/23/93	01:36	500512					
00	0	075	007	371-051	764371	0.5271	0.4317	0.4847	.F.	5005119	03/20/93	14:31	5002536	03/23/93	01:33	500512					
00	0	075	008	371-075	764371	0.5273	0.4319	0.4842	.F.	5005119	03/20/93	16:16	5002536	03/23/93	01:33	500512					
00	0	075	009	371-037	764371	0.5267	0.4315	0.4879	.F.	5005119	03/20/93	16:23	5002536	03/23/93	01:32	500512					
00	0	075	010	371-035	764371	0.5270	0.4315	0.4853	.F.	5005119	03/20/93	16:32	5002536	03/23/93	01:30	500512					
00	0	075	011	371-522	764371	0.5266	0.4314	0.4868	.F.	5005119	03/20/93	16:39	5002536	03/23/93	01:29	500512					
00	0	075	012	371-023	764371	0.5264	0.4300	0.4864	.F.	5005119	03/20/93	18:33	5002536	03/23/93	01:28	500512					
00	0	075	013	371-070	764371	0.5272	0.4319	0.4866	.F.	5005119	03/20/93	18:50	5002536	03/23/93	01:26	500512					
00	0	075	014	371-039	764371	0.5271	0.4315	0.4852	.F.	5005119	03/20/93	19:21	5002536	03/23/93	01:25	500512					
00	0	075	015	371-061	764371	0.5272	0.4322	0.4857	.F.	5005119	03/20/93	23:40	5002536	03/23/93	01:23	500512					
00	0	075	016	371-102	764371	0.5272	0.4319	0.4866	.F.	5005119	03/21/93	00:00	5002536	03/23/93	01:22	500512					
00	0	075	017	371-044	764371	0.5270	0.4312	0.4885	.F.	5005119	03/21/93	00:14	5002536	03/23/93	01:21	500512					
00	0	075	018	371-074	764371	0.5273	0.4320	0.4854	.F.	5005119	03/21/93	00:26	5002536	03/23/93	01:16	500512					
00	0	075	019	371-033	764371	0.5266	0.4315	0.4857	.F.	5005119	03/21/93	03:38	5002536	03/23/93	01:15	500512					
00	0	075	020	371-123	764371	0.5271	0.4318	0.4854	.F.	5005119	03/21/93	03:51	5002536	03/23/93	01:14	500512					
00	0	075	021	371-442	764371	0.5271	0.4307	0.4845	.F.	5005119	03/21/93	12:48	5002536	03/23/93	01:12	500512					
00	0	075	022	371-017	764371	0.5264	0.4314	0.4870	.F.	5005119	03/21/93	04:51	5002536	03/23/93	01:11	500512					
00	0	075	023	371-643	764371	0.5263	0.4306	0.4850	.F.	5005119	03/21/93	12:35	5002536	03/23/93	01:09	500512					

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Insertion operations complete - Order: Tube

OTSC Slewing Database Version 2.
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Slewing Status Report

Unit	Gen	Row	Col	Sleeve Serial #	Sleeve Heat #	Sleeve		Bottom Tube Insertion		Insertion Tool Operation	Upper Roll		Lower R. Tool Number
						OD	ID	Roll Fl./ Dia. Exp.	Tool Number		Tool Operation	Tool Operation	
00	0	075	024	371-652	764371	0.5267	0.4313	0.4854	.F.	5005119	03/21/93 07:33	5002536	03/23/93 01:00 5005121
00	0	075	025	371-673	764371	0.5277	0.4306	0.4837	.F.	5005119	03/21/93 12:10	5002536	03/23/93 01:07 5005121
00	0	075	026	371-664	764371	0.5272	0.4310	0.4846	.F.	5005119	03/21/93 13:25	5002536	03/23/93 01:03 5005121
00	0	075	027	371-546	764371	0.5270	0.4313	0.4851	.F.	5005119	03/21/93 13:34	5002536	03/23/93 01:02 5005121
00	0	075	028	371-563	764371	0.5268	0.4315	0.4855	.F.	5005119	03/21/93 09:16	5002536	03/23/93 01:00 5005121
00	0	075	029	371-550	764371	0.5270	0.4311	0.4849	.F.	5005119	03/21/93 13:43	5002536	03/23/93 00:59 5005121
00	0	075	030	371-544	764371	0.5271	0.4310	0.4847	.F.	5005119	03/21/93 13:52	5002536	03/23/93 00:57 5005122
00	0	075	031	371-646	764371	0.5261	0.4314	0.4850	.F.	5005119	03/21/93 15:32	5002536	03/23/93 00:56 5005122
00	0	075	032	371-542	764371	0.5270	0.4313	0.4851	.F.	5005119	03/21/93 15:40	5002536	03/23/93 00:54 5005122
00	0	075	033	371-560	764371	0.5271	0.4307	0.4822	.F.	5005119	03/21/93 15:50	5002536	03/23/93 00:53 5005122
00	0	075	034	371-558	764371	0.5271	0.4313	0.4838	.F.	5005119	03/21/93 16:05	5002536	03/23/93 00:51 5005122
00	0	075	035	371-548	764371	0.5272	0.4314	0.4850	.F.	5005119	03/21/93 16:14	5002536	03/23/93 00:49 5005122
00	0	077	001	371-100	764371	0.5271	0.4317	0.4865	.F.	5005119	03/20/93 00:20	5001750	03/23/93 04:21 5005122
00	0	077	002	371-127	764371	0.5273	0.4318	0.4841	.F.	5005119	03/20/93 03:47	5001750	03/23/93 04:17 5005122
00	0	077	003	371-053	764371	0.5272	0.4316	0.4829	.F.	5005119	03/20/93 06:11	5001750	03/23/93 04:20 5005122
00	0	077	004	371-027	764371	0.5276	0.4314	0.4836	.F.	5005119	03/20/93 09:37	5001750	03/23/93 04:18 5005122
00	0	077	005	371-034	764371	0.5269	0.4315	0.4854	.F.	5005119	03/20/93 12:58	5001750	03/23/93 04:23 5005122
00	0	077	006	371-111	764371	0.5268	0.4318	0.4869	.F.	5005119	03/20/93 14:39	5001750	03/23/93 04:27 5005122
00	0	077	007	371-048	764371	0.5271	0.4315	0.4852	.F.	5005119	03/20/93 14:51	5001750	03/23/93 04:29 5005122
00	0	077	008	371-057	764371	0.5270	0.4315	0.4841	.F.	5005119	03/20/93 16:46	5001750	03/23/93 04:30 5005122
00	0	077	009	371-042	764371	0.5272	0.4316	0.4874	.F.	5005119	03/20/93 16:52	5001750	03/23/93 04:32 5005122
00	0	077	010	371-091	764371	0.5272	0.4318	0.4853	.F.	5005119	03/20/93 16:58	5001750	03/23/93 04:33 5005122
00	0	077	011	371-114	764371	0.5264	0.4318	0.4873	.F.	5005119	03/20/93 19:47	5001750	03/23/93 04:35 5005122
00	0	077	012	371-063	764371	0.5271	0.4319	0.4855	.F.	5005119	03/20/93 20:13	5001750	03/23/93 04:37 5005122
00	0	077	013	371-105	764371	0.5272	0.4319	0.4877	.F.	5005119	03/20/93 20:38	5001750	03/23/93 04:38 5005122
00	0	077	014	371-101	764371	0.5262	0.4320	0.4877	.F.	5005119	03/20/93 20:59	5001750	03/23/93 04:40 5005122
00	0	077	015	371-065	764371	0.5273	0.4322	0.4867	.F.	5005119	03/21/93 01:06	5001750	03/23/93 04:41 5005122
00	0	077	016	371-080	764371	0.5272	0.4318	0.4865	.F.	5005119	03/21/93 01:23	5001750	03/23/93 04:42 5005122
00	0	077	017	371-116	764371	0.5280	0.4320	0.4846	.F.	5005119	03/21/93 01:33	5001750	03/23/93 04:44 5005122
00	0	077	018	371-135	764371	0.5269	0.4316	0.4855	.F.	5005119	03/21/93 01:46	5001750	03/23/93 04:45 5005122
00	0	077	019	371-060	764371	0.5251	0.4319	0.4911	.F.	5005119	03/21/93 05:02	5001750	03/23/93 04:47 5005122
00	0	077	020	371-099	764371	0.5271	0.4313	0.4850	.F.	5005119	03/21/93 05:12	5001750	03/23/93 04:48 5005122
00	0	077	021	371-637	764371	0.5271	0.4316	0.4862	.F.	5005119	03/21/93 05:27	5001750	03/23/93 04:49 5005122
00	0	077	022	371-634	764371	0.5277	0.4313	0.4832	.F.	5005119	03/21/93 05:36	5001750	03/23/93 04:51 5005122
00	0	077	023	371-641	764371	0.5260	0.4312	0.4849	.F.	5005119	03/21/93 11:46	5001750	03/23/93 04:52 5005122
00	0	077	024	371-629	764371	0.5262	0.4306	0.4865	.F.	5005119	03/21/93 11:21	5001750	03/23/93 04:54 5005122
00	0	077	025	371-644	764371	0.5272	0.4312	0.4894	.F.	5005119	03/21/93 11:09	5001750	03/23/93 04:55 5005122
00	0	077	026	371-640	764371	0.5264	0.4313	0.4867	.F.	5005119	03/21/93 10:35	5001750	03/23/93 04:57 5005122
00	0	077	027	371-549	764371	0.5261	0.4315	0.4906	.F.	5005119	03/21/93 09:59	5001750	03/23/93 04:58 5005122
00	0	077	028	371-624	764371	0.5269	0.4303	0.4843	.F.	5005119	03/21/93 14:00	5001750	03/23/93 04:59 5005122
00	0	077	029	371-649	764371	0.5272	0.4313	0.4860	.F.	5005119	03/21/93 14:33	5001750	03/23/93 05:01 5005122
00	0	077	030	371-631	764371	0.5270	0.4307	0.4848	.F.	5005119	03/21/93 16:20	5001750	03/23/93 05:03 5005122
00	0	077	031	371-621	764371	0.5270	0.4306	0.4845	.F.	5005119	03/21/93 16:29	5001750	03/23/93 05:04 5005122
00	0	077	032	371-622	764371	0.5252	0.4312	0.4881	.F.	5005119	03/21/93 16:36	5001750	03/23/93 05:06 5005122
00	0	077	033	371-637	764371	0.5262	0.4314	0.4865	.F.	5005119	03/21/93 16:50	5001750	03/23/93 05:12 5005122
00	0	077	034	371-628	764371	0.5272	0.4311	0.4858	.F.	5005119	03/21/93 16:57	5001750	03/23/93 05:14 5005122
00	0	077	035	371-634	764371	0.5272	0.4316	0.4863	.F.	5005119	03/21/93 17:10	5001750	03/23/93 05:16 5005122

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Insertion operations complete - Order: Twi

BTSC Slewing Database Version :
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Sleeving Status Report

Unit	Gen	Row	Col	Bottom Tube Insertion										Upper Roll		Upper Roll		Lower Roll	
				Sleeve Serial #	Sleeve Heat #	Sleeve OD	Sleeve ID	Roll Dia.	Fl./ Exp.	Insertion Tool Number	Insertion Tool Operation	Upper Roll Tool Number	Upper Roll Tool Operation	Lower Roll Tool Number					
08	8	078	001	371-056	764371	0.3274	0.4308	0.4854	.F.	5005119	03/20/93	06:35	5001750	03/23/93	06:02	5005121			
08	8	078	002	371-095	764371	0.3269	0.4305	0.4833	.F.	5005119	03/20/93	04:09	5001750	03/23/93	06:01	5005122			
08	8	078	003	371-026	764371	0.3270	0.4317	0.4832	.F.	5005119	03/20/93	06:21	5001750	03/23/93	05:59	5005121			
08	8	078	004	371-129	764371	0.3273	0.4310	0.4834	.F.	5005119	03/20/93	11:44	5001750	03/23/93	05:56	5005121			
08	8	078	005	371-064	764371	0.3264	0.4319	0.4874	.F.	5005119	03/20/93	13:13	5001750	03/23/93	05:54	5005121			
08	8	078	006	371-104	764371	0.3274	0.4317	0.4862	.F.	5005119	03/20/93	15:01	5001750	03/23/93	05:53	5005121			
08	8	078	007	371-094	764371	0.3256	0.4316	0.4857	.F.	5005119	01/20/93	15:10	5001750	03/23/93	05:52	5005121			
08	8	078	008	371-090	764371	0.3274	0.4316	0.4872	.F.	5005119	03/20/93	17:07	5001750	03/23/93	05:51	5005121			
08	8	078	009	371-047	764371	0.3272	0.4308	0.4867	.F.	5005119	03/20/93	17:19	5001750	03/23/93	05:51	5005121			
08	8	078	010	371-077	764371	0.3271	0.4317	0.4876	.F.	5005119	03/20/93	17:29	5001750	03/23/93	05:49	5005121			
08	8	078	011	371-106	764371	0.3276	0.4322	0.4841	.F.	5005119	03/20/93	21:21	5001750	03/23/93	05:48	5005121			
08	8	078	012	371-003	764371	0.3271	0.4316	0.4841	.F.	5005119	03/20/93	21:48	5001750	03/23/93	05:45	5005121			
08	8	078	013	371-110	764371	0.3273	0.4316	0.4830	.F.	5005119	03/21/93	22:11	5001750	03/23/93	05:43	5005121			
08	8	078	014	371-067	764371	0.3274	0.4320	0.4876	.F.	5005119	03/21/93	22:37	5001750	03/23/93	05:42	5005121			
08	8	078	015	371-021	764371	0.3268	0.4312	0.4875	.F.	5005119	04/21/93	02:00	5001750	03/23/93	05:40	5005121			
08	8	078	016	371-120	764371	0.3264	0.4321	0.4876	.F.	5005119	03/21/93	02:10	5001750	03/23/93	05:39	5005121			
08	8	078	017	371-107	764371	0.3270	0.4321	0.4892	.F.	5005119	03/21/93	02:20	5001750	03/23/93	05:37	5005121			
08	8	078	018	371-028	764371	0.3274	0.4315	0.4871	.F.	5005119	03/21/93	02:30	5001750	03/23/93	05:35	5005121			
08	8	078	019	371-073	764371	0.3272	0.4319	0.4843	.F.	5005119	03/21/93	05:53	5001750	03/23/93	05:32	5005121			
08	8	078	020	371-044	764371	0.3277	0.4318	0.4848	.F.	5005119	03/21/93	06:07	5001750	03/23/93	05:31	5005121			
08	8	078	021	371-639	764371	0.3267	0.4312	0.4842	.F.	5005119	03/21/93	06:18	5001750	03/23/93	05:30	5005121			
08	8	078	022	371-632	764371	0.3271	0.4310	0.4847	.F.	5005119	03/21/93	14:47	5001750	03/23/93	05:28	5005121			
08	8	078	023	371-630	764371	0.3261	0.4312	0.4840	.F.	5005119	03/21/93	14:40	5001750	03/23/93	05:27	5005121			
08	8	078	024	371-625	764371	0.3270	0.4311	0.4863	.F.	5005119	03/21/93	14:55	5001750	03/23/93	05:25	5005121			
08	8	078	025	371-642	764371	0.3256	0.4315	0.4879	.F.	5005119	03/21/93	09:33	5001750	03/23/93	05:24	5005121			
08	8	078	026	371-553	764371	0.3272	0.4316	0.4863	.F.	5005119	03/21/93	15:06	5001750	03/23/93	05:22	5005121			
08	8	078	027	371-656	764371	0.3268	0.4313	0.4855	.F.	5005119	03/21/93	10:18	5001750	03/23/93	05:21	5005121			
08	8	078	028	371-661	764371	0.3280	0.4311	0.4884	.F.	5005119	03/21/93	11:36	5001750	03/23/93	05:19	5005121			
08	8	078	029	371-551	764371	0.3269	0.4301	0.4853	.F.	5005119	03/21/93	15:23	5001750	03/23/93	05:18	5005121			
08	8	079	001	371-006	764371	0.3271	0.4315	0.4863	.F.	5005119	03/20/93	06:51	5001750	03/23/93	06:03	5005122			
08	8	079	002	371-046	764371	0.3272	0.4316	0.4829	.F.	5005119	03/20/93	04:22	5001750	03/23/93	06:05	5005121			
08	8	079	003	371-025	764371	0.3263	0.4314	0.4848	.F.	5005119	03/20/93	06:30	5001750	03/23/93	06:06	5005121			
08	8	079	004	371-636	764371	0.3275	0.4315	0.4847	.F.	5005119	03/20/93	11:56	5001750	03/23/93	06:07	5005121			
08	8	079	005	371-097	764371	0.3275	0.4317	0.4849	.F.	5005119	03/20/93	13:23	5001750	03/23/93	06:09	5005121			
08	8	079	006	371-016	764371	0.3271	0.4315	0.4863	.F.	5005119	03/20/93	15:17	5001750	03/23/93	06:10	5005121			
08	8	079	007	371-120	764371	0.3269	0.4318	0.4845	.F.	5005119	03/20/93	15:23	5001750	03/23/93	06:12	5005121			
08	8	079	008	371-122	764371	0.3268	0.4318	0.4850	.F.	5005119	03/20/93	17:40	5001750	03/23/93	06:14	5005121			
08	8	079	009	371-639	764371	0.3262	0.4312	0.4839	.F.	5005119	03/22/93	01:32	5001750	03/23/93	06:16	5005121			
08	8	079	010	371-675	764371	0.3270	0.4314	0.4852	.F.	5005119	03/22/93	01:29	5001750	03/23/93	06:19	5005121			
08	8	079	011	371-592	764371	0.3268	0.4312	0.4852	.F.	5005119	03/22/93	01:48	5001750	03/23/93	06:20	5005121			
08	8	079	012	371-565	764371	0.3271	0.4317	0.4853	.F.	5005119	03/22/93	01:58	5001750	03/23/93	06:22	5005121			
08	8	080	001	371-040	764371	0.3270	0.4311	0.4861	.F.	5005119	03/20/93	01:04	5001750	03/23/93	06:24	5005121			
08	8	080	002	371-117	764371	0.3269	0.4317	0.4841	.F.	5005119	03/20/93	04:32	5001750	03/23/93	06:25	5005121			
08	8	080	003	371-071	764371	0.3270	0.4318	0.4867	.F.	5005119	03/20/93	06:51	5001750	03/23/93	06:23	5005121			
08	8	080	004	371-126	764371	0.3269	0.4306	0.4846	.F.	5005119	03/20/93	12:00	5001750	03/23/93	06:25	5005121			
08	8	080	005	371-574	764371	0.3274	0.4315	0.4860	.F.	5005119	03/22/93	02:10	5001750	03/23/93	06:26	5005121			
08	8	080	006	371-623	764371	0.3264	0.4313	0.4869	.F.	5005119	03/22/93	02:19	5001750	03/23/93	06:27	5005121			

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0 0 5 0 2 2 4 3 7 8

Insertion operations complete - Order: 142

0796 Sizing Database Version 1
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Sizing Status Report

Unit	Gen	Ass	Col	Sleeve Serial #	Sleeve Heat #	Sleeve OD	Sleeve ID	Bottom Tube Roll Dia.	Insertion Fl. Exp.	Insertion Tool Number	Insertion Tool Operation	Upper Roll Tool Number	Upper Roll Tool Operation	Lower R Tool Number
00	0	000	007	371-547	764371	0.5272	0.4304	0.4041	F.	5005119	03/22/93 02:26	5001750	03/23/93 07:04	5005121
00	0	000	000	371-640	764371	0.5264	0.4306	0.4003	F.	5005119	03/22/93 02:30	5001750	03/23/93 07:07	5005121
00	0	001	001	371-042	764371	0.5267	0.4320	0.4072	F.	5005119	03/20/93 01:31	5001750	03/23/93 07:11	5005122
00	0	001	002	371-049	764371	0.5274	0.4319	0.4029	F.	5005119	03/20/93 03:10	5001750	03/23/93 07:40	5005122
00	0	001	003	371-072	764371	0.5267	0.4311	0.4052	F.	5005119	03/20/93 07:17	5001750	03/23/93 07:46	5005122
00	0	001	004	371-547	764371	0.5272	0.4312	0.4040	F.	5005119	03/22/93 02:47	5001750	03/23/93 07:49	5005122
00	0	001	005	371-561	764371	0.5272	0.4317	0.4041	F.	5005119	03/22/93 02:54	5001750	03/23/93 07:51	5005122
00	0	001	006	371-557	764371	0.5271	0.4312	0.4040	F.	5005119	03/22/93 03:02	5001750	03/23/93 07:54	5005122
00	0	001	007	371-611	764371	0.5267	0.4313	0.4054	F.	5005119	03/22/93 03:13	5001750	03/23/93 07:56	5005122
00	0	002	001	371-001	764371	0.5269	0.4321	0.4071	F.	5005119	03/20/93 01:17	5001750	03/23/93 07:50	5005121
00	0	002	002	371-579	764371	0.5264	0.4314	0.4047	F.	5005119	03/22/93 03:22	5001750	03/23/93 08:00	5005122
00	0	002	003	371-619	764371	0.5275	0.4314	0.4023	F.	5005119	03/22/93 03:31	5001750	03/23/93 08:02	5005122
00	0	002	004	371-604	764371	0.5275	0.4313	0.4034	F.	5005119	03/22/93 03:40	5001750	03/23/93 08:04	5005122
00	0	002	005	371-985	764371	0.5264	0.4305	0.4000	F.	5005119	03/22/93 03:51	5001750	03/23/93 08:06	5005122
00	0	003	001	371-340	764371	0.5267	0.4314	0.4055	F.	5005119	03/22/93 04:00	5001750	03/23/93 08:08	5005121
00	0	003	002	371-609	764371	0.5266	0.4313	0.4044	F.	5005119	03/22/93 04:15	5001750	03/23/93 08:10	5005121
00	0	003	003	371-593	764371	0.5272	0.4312	0.4036	F.	5005119	03/22/93 04:24	5001750	03/23/93 08:11	5005121
00	0	003	004	371-610	764371	0.5274	0.4314	0.4025	F.	5005119	03/22/93 04:34	5001750	03/23/93 08:13	5005121
00	0	004	001	371-595	764371	0.5276	0.4313	0.4044	F.	5005119	03/22/93 04:44	5001750	03/23/93 08:15	5005121
00	0	004	002	371-583	764371	0.5251	0.4312	0.4039	F.	5005119	03/22/93 04:52	5001750	03/23/93 08:17	5005121
00	0	005	001	371-500	764371	0.5265	0.4312	0.4035	F.	5005119	03/22/93 05:01	5001750	03/23/93 08:19	5005121
00	0	000	126	371-601	764371	0.5273	0.4314	0.4060	F.	5005119	03/22/93 11:15	5001750	03/23/93 08:54	5005121
00	0	104	123	371-573	764371	0.5256	0.4314	0.4056	F.	5005119	03/22/93 10:10	5001750	03/23/93 08:50	5005121
00	0	146	001	371-597	764371	0.5260	0.4314	0.4054	F.	5005119	03/22/93 14:17	5001750	03/23/93 09:11	5005121
00	0	146	031	371-600	764371	0.5271	0.4309	0.4058	F.	5005119	03/22/93 17:46	5001750	03/23/93 09:05	5005122

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 B I W NUCLEAR TECHNOLOGIES PER PO C605600092 TASK 5.2A
(name) (repair organization's P.O. no., job no., etc.)
3315 OLD FOREST ROAD, P.O. BOX 10935, LYNCHBURG Va. 24506
(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
5501 NORTH STATE ROUTE 2, OAK HARBOR OHIO 43449
4. Identification of system OTSG 1-1 063-01
5. a. Identification of component repaired, modified or replaced OTSG 1-1
b. Name of manufacturer BABCOCK & WILCOX
c. Identifying nos. 620-004-55-11 N-15B N/A OTSG 1-1 1972
(mfr's serial no.) (Nat'l. Bd. no.) (jurisdictional no.) (other) (year built)
- * 6. Applicable section(s) XI of ASME Code, 1986 edition N/A addenda NO Code Case N/A ①
7. Design responsibilities BABCOCK & WILCOX
- * 8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure psi.
9. Description of work PERFORM TUBE PLUGGING AND STABILIZATION BASED ON EDDY
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)
CURRENT EXAMINATIONS IN OTSG 1-1 (B STEAM GENERATOR INLET AND OUTLET)
10. Remarks: SEE ATTACHED QCIRs 94-2111 AND 94-2117

* ALSO SEE ASME SECTION III 1986 NO ADDENDA AND 1989 CODE CASE N-474-1
* MATERIAL: ASME SECTION II 1968 EDITION WITH SUMMER 1968 ADDENDA
* MANUFACTURER: ASME SECTION III 1968 EDITION WITH SUMMER 1968 ADDENDA
* * N/A ASME SECTION XI 1986 NO ADDENDA
① CODE CASE 1352-4 AND 1407-1

CERTIFICATE OF COMPLIANCE

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

Certificate of Authorization no. 64 to use the "NB" stamp expires MAY 17 1997
Signed BWNT For RB Gill BWNT QA Manager 10-27 1994
(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 ARKWRIGHT
of NORWOOD, MA have inspected the repair, modification or replacement described in this report
on Oct 26 1994 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 OCT 26 1994 Signed Thomas J Lapa Commissions NB9330 OHIO COMM.
(date) (signature) (commission number) (state or province and number)

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 B.W. NUCLEAR TECHNOLOGIES PER FC 605600 D92 TASK 5.2A
(name) (repair organization's P.O. no., job no., etc.)
3315 OLD FOREST ROAD, P.O. BOX 10935, LYNCHBURG VA 24506
(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
5501 NORTH STATE ROUTE 2, OAK HARBOR OHIO 43449
4. Identification of system OTSG 1-2 063-1
5. a. Identification of component repaired, modified or replaced OTSG 1-2
b. Name of manufacturer BABCOCK & WILCOX
c. Identifying nos. 620-0014-55-12 2-159 N/A OTSG 1-2 1972
(mfr's serial no.) (Nat'l. Bd. no.) (jurisdictional no.) (other) (year built)
- * 6. Applicable section(s) XI of ASME Code, 1986 edition N/A addenda NO Code Case N/A ①
7. Design responsibilities BABCOCK & WILCOX
- * 8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure psi
9. Description of work PERFORM TUBE PLUGGING AND STABILIZATION BASED ON EDDY CURRENT
(use of additional sheet(s) or sketches is acceptable if properly identified)
EXAMINATIONS IN OTSG 1-2 (A STEAM GENERATOR INLET AND OUTLET)
10. Remarks: SEE ATTACHED QCIRs 94-2111 AND 94-2117
* ALSO SEE ASME SECTION III 1986 NO ADDENDA AND 1989 CODE CASE N-474-1
* MATERIAL: ASME SECTION II 1968 EDITION WITH SUMMER 1968 ADDENDA
* MANUFACTURER: ASME SECTION III 1968 EDITION WITH SUMMER 1968 ADDENDA
** N/A ASME SECTION XI 1986 NO ADDENDA
① CODE CASE 1332-4 AND 1407-1

CERTIFICATE OF COMPLIANCE

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

Certificate of Authorization no. 64 to use the "NR" stamp expires MAY 17 1997

Signed BWNT For RBG/1 BWNT QA Manager 10-27 1994
(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 ARKWRIGHT *
of NCRWELD, MA have inspected the repair, modification or replacement described in this report
on Oct 21 1994 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 Oct 29 1994 Signed Thomas J Lips Commissions NB9330 OHIO COMMISSION
(date) (signature) (commission no.) (state)

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 BIW NUCLEAR SERVICE COMPANY PER: PO. 6605600 DR2 TASK # 5.2b
3315 OLD FOREST ROAD, P.O. BOX 10935, LYNCHBURG VA. 24506
2. Owner TOLEDO EDISON COMPANY
300 MADISON AVENUE TOLEDO OHIO 43652
3. Name, address and identification of nuclear power plant DAVIS BESSE NUCLEAR POWER STATION
5501 NORTH STATE ROUTE 2, OAK HARBOR OHIO 43449
4. Identification of system OTS4 1-1 063-1
5. a. Identification of component repaired, modified or replaced OTS4 1-1
b. Name of manufacturer BARCOCK & WILCOX
c. Identifying nos. 620-00A-55-11 N-158 N/A OTS4 1-1 1972
6. Applicable section(s) II of ASME Code, 1986 edition N/A addenda NO Code Case N/A
7. Design responsibilities BARCOCK & WILCOX
8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure psi
9. Description of work INSTALLED (3) BUNS OTS4 TAPER WELDED PLUGS PER: 50-1212929-02
WPS USED: 51-1221751-00
VISUAL EXAMINATION (VT-1) PER 02-1210920A
10. Remarks: MANUAL WELDED PLUGS (BUNS P/N 1208542-001) INSTALLED IN OTS4 1-1 (S
STEAM GENERATOR) CHANNEL HEAD: OUTLET, LOCATION: ROW 69-COL 130 (6977-
12-57), ROW 61-COL 126 (6977-12-32) AND ROW 54-COL 127 (6977-12-58).
* N/A ASME SECTION XI 1986 NO ADDENDA
* ALSO SEE ASME SECTION III 1986 NO ADDENDA AND 1989 CODE CASE N-474-1
* MATERIAL: ASME SECTION II 1968 EDITION WITH SUMMER 1968 ADDENDA
* MANUFACTURER: ASME SECTION III 1968 EDITION WITH SUMMER 1968 ADDENDA

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and that all design, material and workmanship on this <u>MODIFICATION</u> conforms to the applicable section of the ASME Code.	
Certificate of Authorization no. <u>64</u>	to use the "NR" stamp expires <u>MAY 17 1994</u>
Signed <u>BUNS</u>	<u>PO-S JALGUSTA</u> MANAGER BUNS OK <u>4-20 1993</u>
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 <u>OHIO</u> and employed by <u>H. S. B. I. and S. Co.</u>	
of <u>DAVID B. ST</u> have inspected the repair, modification or replacement described in this report on <u>4-20 1992</u> 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 <u>4-20 1992</u> Signed <u>Robert E. Cook</u>	Commission <u>NB10992 (ANT) Bob Cook</u>

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 BIW NUCLEAR TECHNOLOGIES (name) PER C605600 D92 TASK 11 (repair organization's P.O. no., job no., etc.)
3315 OLD FOREST ROAD, PO BOX 10935, LYNCHBURG, VA. 24506 (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
5501 NORTH STATE ROUTE 2, OAK HARBOR, OHIO 43449
4. Identification of system PSU-RO1 AND PSU-H01 064-04
5. a. Identification of component repaired, modified or replaced HANGER SUPPORTS PSU-RO1 AND PSU-H01
b. Name of manufacturer *
c. Identifying nos. * (Natl. Bd. no.) (jurisdictional no.) (other) (year built)
6. Applicable section(s) XI of ASME Code, 1986 edition N/A addenda NO Code Case NONE
7. Design responsibilities *
8. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure PSI PRE SERVICE VT-3
9. Description of work REPLACE HANGER SUPPORTS PSU-H01 AND PSU-RO1 PER PROCESS
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)
TRAVELER 50-1231012-02 AND 51-1230848-00 (WELDING PROCEDURE SPECIFICATION 1-1)

10. Remarks: * SEE QCIR PVS 0902 AND PVS 0903
① HOT LOAD SETTINGS FOR PSU-H01 PERFORMED BY TOLEDO EDISON. COLD SETTINGS FOR
PSU-RO1 PERFORMED BY TOLEDO EDISON.

SEE: PROCESS TRAVELER 50-1231012-02
APPLICABLE DOCUMENT LIST FOR 50-1231012

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. 64 to use the "NR" stamp expires MAY 17 1997
Signed BWNT (repair organization) NOTED FOR RB 611 (authorized representative) BUNT QA MANAGER (title) 11-4 1994 (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 *Cinkwright of Mass have inspected the repair, modification or replacement described in this report on 11-4 1994 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 1994 Signed Michael L. Martini (authorized inspector) NB-8643 ANII (Natl. Bd. no. including endorsement(s), state or province and number)
YFMEPR