EIGHTH REFUELING OUTAGE INSERVICE INSPECTION SUMMARY REPORT

DAVIS-BESSE NUCLEAR POWER STATION
UNIT 1



DAVIS-BESSE NUCLEAR POWER STATION

ISI SUMMARY REPORT

REFUELING OUTAGE NO.: 8RFO OUTAGE START DATE: March 1, 1993 OUTAGE COMPLETION DATE: April 30, 1993 REPORTING DATE: June 16, 1993

DAVIS-BESSE NUCLEAR POWER STATION UNIT No.1

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

OWNER:

CENTERIOR SERVICE COMPANY 6200 Oaktree Boulevard Independence, Ohio 44131

TOLEDO EDISON COMPANY 300 Madison Avenue Toledo, Ohio 43652

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

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

TABLE OF CONTENTS

Section	1	. 10	ĸ.		e 18	- 30		*	. ,		×		*			*				100			* *		* 4		4. 1				*		*	+ +	*	Al	st	tr	ac	t
Section	2			*			é	×			*			. ,		*				*		1	St	e	ar	n	Ge	en	e)	ra	t	or		Ed	ldy	(uı	rr	en	it
Section	3		*				*	,									ж а			×		*				N	IDI	E3	M	ar	ıu	al		Ex	an	iir	a	ti	on	ıs
Section	4				. ,		- 10	×	* 1	. 10								*							* -				*			P	r	es	su	re		Гe	st	s
Section	5		,				*		* *			* 1					* *				*	*			ž	Re	pa	ai	r	S	а	nd		Re	pl	ac	ei	me:	nt	s

ABSTRACT

This report provides a summary of the nondestructive examinations and pressure tests performed during the 8th Refueling Outage 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 March, 1993 through April, 1993. 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 complete the examinations required to be performed in the first period of the second ten year interval.

The NDE examinations consisted of Ultrasonic (UT), Liquid Penetrant (PT), Magnetic Particle (MT), and Visual (VT-1, VT-2, VT-3). There were a total of 201 ASME Class 1 and 2 examinations performed. Two indications requiring further evaluation were identified. Each were found acceptable.

Pressure tests consisted of functional, inservice, and hydrostatic tests. In addition to tests conducted in accordance with the Pressure Test Program Plan, tests were also conducted following repairs/replacements. In total, 100 pressure tests were successfully conducted.

One Hundred (100) percent of the tubing in both Once Through Steam Generators was eddy current examined. All tubes exhibiting indications 20% through wall or greater were plugged. Forty three (43) tubes in Steam Generator 1-1 and 321 tubes in Steam Generator 1-2 were plugged. In addition, 213 tubes in Steam Generator 1-1 were sleeved.

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

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

	Toledo Edison Company, 300 Madison Ave., Toledo, Ohio 4365 (Name and Address of Owner)
Plant	Davis-Besse Nuclear Power Station, Oak Harbor, Ohio 43449
	(Name and Address of Plant)
Plant U	nit #1 4. Owner Certificate of Authorization (if required) N/F
Comme	rcial Service Date 11/21/77 6. National Board Number for Unit N/A
Compo	nents Inspected Steam Generator Tubing

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Steam Generator 1-1	Bahcock & Wilcox	620-0014- 55-11	N/A	158
Steam		620-0014-		
Generator 1-2	Babcock & Wilcox	55-12	N/A	159
175	1170 1275 138			
	i intra			
				*
PT-17 (00-10-10-10-10-10-10-10-10-10-10-10-10-1				

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

FORM NIS-1 (back)

8. Examination Dates March 1993 to R/A 9. Inspection Interval from Sept 1990 to Sept 2000
 Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See attached
11. Abstract of Conditions Noted. See attached
12. Abstract of Corrective Measures Recommended and Taken
See attached
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 6-9 19 93 Signed Toledo Edison Co. By Endel Color Owner
Certificate of Authorization No. (if applicable) N/A Expiration Date N/A
CERTIFICATE OF INSERVICE INSPECTION
Inspectors and/or the State or Province of OHIO and employed by HSBT . Co. of MARTECED CT have inspected the components described in this Owners' Data Report during the period NoV 1991 to MAY 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Rolend E. Cool Commissions NB 10992 (PNI) Ohio Comm
Inspector's Signature National Board, State, Province and No.

Steam Generator Eddy Current Examination Results

The tubing in the Once Through Steam Generators (OTSG's) at the Davis Besse Nuclear Power Station Unit #1 was examined in March 1993 during the 8th 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), and a Crosswound/Bobbin Coil. 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 perform defect detection in tubes within the lane/wedge region and for sleeve candidate tubes at the location of the lower sleeve roll joints. The crosswound/bobbin technique was used to perform defect detection after tube sleeving.

All tubes in Steam Generator 1-1 were examined using the bobbin coil. All tubes were examined full length with the exception of 6 tubes for which examination was restricted by the data acquisition system's positioning pins. The loss of examination coverage was limited for only a few inches near the tube end. Tubes with indications 20% or greater are identified in Attachment 1. Forty three tubes with indications having a through wall dimension 20% or greater, nonquantifiable indications, or absolute drift signals were plugged. These tubes are identified on Attachment 2. Four hundred forty nine 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". Two hundred thirteen tubes identified on Attachment 3 were also sleeved. Crosswound/Bobbin Eddy Current examination following sleeving revealed 39 sleeves with geometric discontinuities. It was determined that these discontinuities were anomalies introduced by a link in the roll tool slinky. Each of these discontinuities was determined acceptable for service. Tubes exhibiting these discontinuities are identified in Attachment 3.

All tubes in Steam Generator 1-2 were examined using the bobbin coil. All tubes were examined full length with the exception of 12 tubes for which examination was restricted by the data acquisition system's positioning pins and plate. The loss of examination coverage was limited for only a few inches near the tube end. One tube was internally obstructed in the Upper Tube Sheet and subsequently plugged. Tubes with indications 20% or greater are identified in Attachment 4. Three hundred twenty one tubes were plugged. Three hundred seventeen tubes had indications with a through wall dimension 20% or greater, nonquantifiable indications, absolute drift signals, or were obstructed. Four tubes with dents in the area of the auxiliary feedwater header were also plugged. These tubes are identified on Attachment 5. Four hundred forty five 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" but less than 0.250". All other tubes were determined to have a gap greater than 0.250". No tubes were sleeved in Steam Generator 1-2.

Detailed examination results are contained in the 8th Refueling Outage Steam Generator Eddy Current Inspection Report which is available for review at the Davis Besse site.

The legend for the abbreviations used in Attachments 1 through 5 is as follows.

ADS CHN	Absolute Drift Signal Channel
COL	Column
DEG	Degrees
FL	Full Length
IND	Indication
LTSF	Lower Tube Sheet Secondary Face
NQI	Non-quantifiable Indication
OBS	Obstruction
ODI	Outside Diameter Indication
%TW	Percent Through Wall
P	Primary Mix
TSF	Tube Support Plate
UTSF	Upper Tube Sheet Secondary Face

STEAM GENERATOR 1-1

Plant: Davis Besse 1 Outage: 03/93 RFO

TEST BOBBBIN BOBBBBIN BOOBBBBIN BOOBBBBIN BOOBBBBIN BOOBBBBBBBBBB	120 67 6	94494 0364523	THE VOLUME TO THE PROPERTY OF	CIP PP PP	120mmmn00mm10	LOCATION 9TH TSPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	0.5561Qmm441m6 0.000010000000000000000000000000000000	EXTENT FL
BOBBIN BOBBIN BOBBIN	145 147 148 1	3 ODI 1 ODI	28 0.39 30 0.37 0.16	Pil	120 130 138	MIL THE STO. SALE STO. THE	0.16	FL
TOTAL TOTAL TOTAL	INDICA	FOUND TIONS FO IN INPU	OUND =	154	13			

TEST BOBBIN	ROW - 2004 7445775	C01766 06660	IND OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	W - 0770070040 H - MMMMMMMMM	VOLTS: 30951408NI5	CHN P 11111111111111111111111111111111111	DE HANNONNOS	LOCI THHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	ATI SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	 0.467990611300 445390112200 1400080	EXTENT FL FL FL FL FL FL FL FL FL
TOTAL TOTAL TOTAL	TUBE INDI TUBE	CAT:	OUND ONS I INF	FOUL UT F	ID =	1545	897				

STEAM GENERATOR 1-1

Plant: Davis Besse 1 Outage: 03/93 RFO

TEST BOBBEIN BOBBEIN BOBBEIN BOBBEIN BOBBEIN BOBBEIN BOBBEIN BOBBEIN BOBBEIN	ROW 	C11144000000000000000000000000000000000	IND ODDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	W - 8764588966 T - 4456476754	VOLTS 9772634474449	CHN P P P P	DEG 1058899995000000000000000000000000000000	LOCATION 5TH TSP + 17.71 8TH TSP + 17.71 8TH TSP + 17.49 8TH TSP + 30.460 5TH TSP + 30.5568 8TH TSP + 19.558 8TH TSP + 19.558 8TH TSPP + 19.558 8TH TSSP + 19.558	EXTENT FL FL FL FL FL FL FL FL FL FL
TOTAL TOTAL TOTAL	TUBE INDI TUBE	CATI CATI	OUND ONS I INE	FOUL FOUL	ND =	154	10		

TUBES PLUGGED STEAM GENERATOR 1-1

Plant: Davis Besse 1 Outage: 03/93 RFO

QUERY: DEFECT INDICATIONS 20-100% TW, MQI, ADS, & SSA

TEST		enu	COL	CMI	XTV	VOLTS	CH	TNI	DEG	LOCA	TION	**		EXTENT
****		**	***		***		10-16	*						*****
BOSBI	M	2	7	MQI		0.42	P	1	96	1011	TSP-	0.68		FL
BOSE		15	69	001	20	0.39	P	1	128	9TH	TEP -	0.80		FL
BOSE		18	17	COI	48	0.29		1	110	STR	TSP +	17.71		FL
BOGE		20		COI	30	0.43		1	114	5TH	TSP -	0.46		FL
BOSS		24	54	COI	27	0.79		1	129	STK	TSP +	2.05		FL.
BOSBI		29	- 201 (27)	ODI	21	0.59		1	137	4TH	TSP +	20.26		FL
BOSSI		38		COI	47	1.27	P	1	95	BTH	TSP -	0.39		FL
BOSE			124		21	0.45		1	138	1211	TSP+	18.21		FL
BOBBI		-0.2	16.4	001	27	0 43		1	132	TTN	TEP +	11.62		FL.
-8208		-41	126			4 64	B	4	-124	4574	-T5P+	0.78	managed and the same of the sa	afileman
BOSE		67		COI		0.32		1	108	LTS		7.49		FL
BOBB		69	117576	I Del		0.32		1	104	4TH	TSP +	1.52		FL
BOSE				MOI		0.60		1	106	4TH	TEP .	3.34		FL
BOSE				MOI		0.63		1	111	ATH	TEP +	3.58		FL
BOSE		70		MOI		0.41		1	92	ATM	TSP +	4.18		FL
-		70		001	in the second	0.76	١.	1	99	BTN	TSP +	30.46		FL
8308		71		001		0.43		1	119	380	TSP .	22,50		FL
BOSS	E.13	71		001		0.34		4	83	STN	TEP +	19.56		FL
BOSE	560			MOI		0.23	p	1	86	UTE		0.41		FL
8068		72			-	0.20		4	124	ATN	TSP +	6.67		FL
BOSE		72		001		2 75		ż	07	ATH	TSP +	26.29		FL
8308			107			6 77		-	OK	ATE	TEP +	3.58		FL
8383		74	60			0.31		9	124	ATH	T'CP 4	4.39		FL.
8308				001		0.87		4	998	ATM	TEP 4	5 90		FL
BOSS				001	38	0.22		-	123	ATM	TEP 4	7.73		FL
BOSE	IN	400.0		001	22	0.71			82	ATE	TOD 4	2.80		FL
8068		74	61	001		0.34		-	87	LTH	TED 4	12.44		FL
BOSE	IM			MG!	74	0.21		9	123	LTN	TEP 4	36 30		FL
8808		74	. 62	001	38	0.31		4	05	ATH	TED 4	14 85		FL
5088	IN			MQ!	-	0.41		4	500	CTN	TEP 4	0.11		FL
8068	2 M	74	6.3	00	31	0.30	. "	3	700	DYN	TPD 4	7 16		F1
8088	2 80	. 75	61	MC.		0.30	9	9	127	DTN	TED	10 28		FL
8068				CD	34	0.34	2	3	163	ALL	TER	77 SA		FI
BOSE	70.77	75		MQ:		0.3	٤.	1	33	CIR	W YES	0 44		F1.
BOSS	116	77		100		0.4	5 P	1	179	Ten	N ISP	28 20		FL
BORE	IN	. 77		00	34	0.3	2	3	125	380	150	AD EE		61
BOSE	IN	75		AD:	\$	1.2	5		93	151	124	10-22		51
BOBE	IN	83		NO:	I	0.34	6	3	0.3	221	N 157"	0.07		EL
BOSE	2 M	85		S MG	1	0.2	2	1	1 13	181	137	9,94		El
8308	IN	Qr.		AD:	\$	3.7	1		104	411	125	20.00		FI
FORS	18	94		300	1 50	6 0.3	6	3	1 102	511	1250	2.70		P.L.
BOBB	IM	99	126	5 MG	1	0.7	D F		1 105	141	N CSP	0.02		7.5
8068	IM	109	103	5 00	1 2	5 0.4	3	- 3	12	UTS	i.	6.23		F.L.
8088	IM	220	0 6	6 00	1 2	7 0.3	8 1		1 103	611	1 I SP	0.66		P.L.
BORE	IN.	121		4 00	1 2	2 0.2	6	-	1 137	LTS	bF .	0.94		FL
BOBS	118	121	5 7	5 00	1 2	5 0.4	1	1	1 133	511	0 135	. 0.21		FL
BOST	IN	121		B AD	S	2.2	6	-	1 71	611	N TSP	* 11.14		FL
8081	IN .	133	3 7	8 00	1 4	6 0.2	9 1	,	1 100	SRI	TSP	0.40		FL
BOSE	MIN	13	4	7 MQ	1	0.2	5		1 9	LT	SF	+ 35.14		F L.
BOSI	MIN	13	5 2	3 00	1 3	0.2	5 1	2	1 105	511	H TSP	+ 0.00		P.L
BOSE	MIS	13	5 6	2 00	1 2	8 0.3	9 1	p .	1 11	3 3R	TSP	+ 0.13		P.L.
8081	11000.0000	14		3 00	1 2	0 0.3	3 1	9	1 12	0 38t	D TSP	- 0.16		FL
BOSI	BIN	16	7 1	1 00	1 2	3 0.3	7		1 13	0 91	H TSP	- 0.11		FL
Account to	BIN	14	8 1	2 00	1 2	0 0.1	6		1 13	5 383	D TSP	+ 0.00		FL

Tube Row 64 Column 126 was sleeved instead of plugged.

STEAM GENERATOR 1-1

Sleeved Tubes

	Sleeved	Tubes	
Row - Column			Total Tubes
48-123			1
49-124			1
64-126			1
67-1			1
68-1 thru 2			2
69-1 thru 4			4
70-1 thru 5			5
71-1 thru 7			7
			8
73-1 thru 12			12
74-1 thru 29			29
75-1 thru 35			35
77-1 thru 35			35
78-1 thru 29			29
79-1 thru 12			12
80-1 thru 8			8
81-1 thru 7			7
82-1 thru 5			5
83-1 thru 4			5 4
84-1 thru 2			2
85-1			1
88-126			1
104-123			1
146-1			1
146-51			î
	Tubes S	haveal	213
10001	I UNCO D	ACCYCU	640

STEAM GENERATOR 1-1
Tubes with Geometric Discontinuities

Row	-	Column
74		24
74		25
74 74 74		29
75		4
75		5
75		6
75		7
75		8
75		9
75		10
75		1.3
75		12
75		13
75		14
75		15
75		16
75		24 25 29 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 12 23 24 25 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20
75		18
75		19
75		20
75		21
75		22
75		23
75		24
75		25
75		26
75		27
75		28
75		29
78		1
80		. 1
82		1
83		1
83		2
83		. 3
777777777777777777777777777777778888888		27 28 29 1 1 2 3 4 1 2 1
84		1
84		2
85		1

S6 1-8 PLUGGED AND SLEEVED TUBES

PLANT: DAVIS BESSE UNIT 1

GENERATOR B

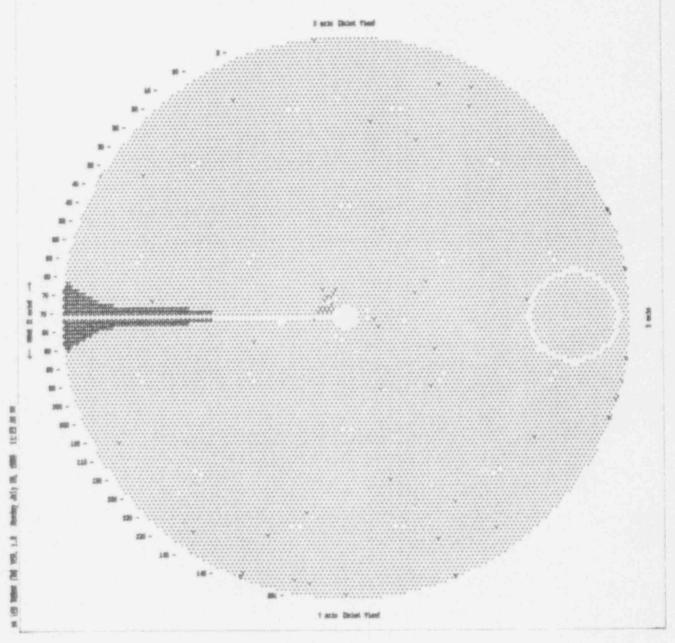
1 = 56 1-6 PLUSSED TUBES (52)

0 - SE 1-B SLEEVED THES DIS

- 35 1-6 PLUMSED THREE (11)

TOTAL TUBES ASSIGNED: 275

TOTAL TUBES : 15457 SUPPORT ROOS () : 42



TEST F	ROW COI	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT
BOBBIN BOBBIN BOBBIN BOBBIN	1 471888876976969776967769667769667769667776976776966777697677769667776976776966777697677696677769767769666666		TOWNS TO WRITT TOWNS TOW	\$\) elected edected ede			41640440689500859459760067097097600670595958545959666444585566771907	

-											
T	EST	ROW	COL	IND	%TW	VOLTS	CHIN	DEG	LOCATION	15589675548690896145555906094031440316469377748614891498767067380408775 1915548804907071713813058483190071878717763000755703140804873090554088775 14081343700836349675440131006175089318781104338004415101084969340010000	EXTENT
В	OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO			ODI	29	0.81	1	126	6TH TSP +	24.95	FL
B	OBBIN	81	- 68	OPI	29	0.64	P 1	123	7TH TSP +	0.15	FL
100	OBBIN	0.7	0.9	ODÍ	27	0.49	1	128	5TH TSP +	11.59	FL
B	OBBIN	81	7.0	ODI	29	0.38	1	133	3RD TSP +	23.46	LTSF
B	OBBIN	0.0	-	ODI	28	0.42	- 1	135	3RD TSP +	34.87	LTSF
T D	OBBIN	85	24	SH+	50	0.30	1	127	5TH TSP +	17.21	FL
B	OBBIN	82	65	ODI	27	0.41	1	128	5TH TSP +	10.48	FL
B	OBBIN		JE 185	ODI	27	0.45	1	128	5TH TSP +	10.96	FL
DICE	OBBIN	- 62	6/	ODT	23	0.80	1	131	4TH TSP +	3:50	FĽ
B	OBBIN	82	71	ÖDĪ	27	0.60	1	135	4TH TSP +	6.28	FI.
B	OBBIN	83	11	OPI	20	0.23	1	137	5TH TSP +	13.79	FT
BB	OBBIN	. 23	20	ODT	28	0.48	1 1	135	3RD TSP +	26.31	LTSF
B	ÖBBIN	107 407	~ ~	ODÍ	26	0.57	1	136	4TH_TSP +	27.81	LISF
B	OBBIN	84	-7	ODI	21	0.51	1	136	UTSF +	12.15	FT
B	OBBIN	84	50	ODI	20	0.68	- 5	138	4TH TSP +	12.65	FĹ
B	OBBIN	W 34		ODI	23	0.59	1	135	5TH TSP +	1.83	FL
B	OBBIN	84	72		28	0.27	- 1	135	ATH TSP +	13.40	FT.
1100	OBBIN			ODÍ	26	0.81	1	137	4TH TSP +	12.30	FL
B	OBBIN	85	. 4	ODI	22	0.52	1	135	2ND TSP +	10.19	FL
B	OBBIN	8.5	66	ODI	28	0.52	+	135	3RD TSP +	21 22	FI
D B	OBBIN			ODĪ	29	0.83	ī	135	3RD TSP +	17.73	FL
B	OBBIN			ODI	23	0.50	1	138	4TH TSP +	15.81	FL
BO	OBBIN	85	6/	ODT	53	0.58	7	135	4TH TSP +	B: 72	FĽ
B	OBBÍN	86	65	ÖDĪ	27	0.38	1	132	3RD TSP +	19.73	FL
B		88 8 67 8890	66	ODI	200	0 - 22		135	411 750 +	11.05	FL
D B	OBBIN	86	67	ODÍ	25	0.65	î	136	3RD TSP +	38.74	FL
B	OBBIN			ODI	24	0.40	- 1	135	4TH TSP +	7.16	FL
B	OBBIN	86	6.8	ODI	22	0.74	1	138	4TH TSP +	ĨĨ. 73	FL
B	ODDIN	87	67	ODI	27	0.78	1	134	4TH TSP +	11.67	FL
DO	OBBEIN OBBEIN OBBEIN OBBEIN OBBEIN OBBEIN	88	68		55	0.42	1	133	4TH TSP +	14.21	FĽ
B	ÖBBÍN	88	126	ODI	24	0.74	ī	133	15TH TSP+	33.08	FL
B	OBBIN OBBIN	102	67	ODI	29	0.38	1	130	4TH TSP +	8.06	E.F.
D D	OBBIN	106	20	ODI	25	0.32	Pi	104	13TH TSP-	5.51	FL
B	ÖBBIN	106	15	ODI	26	0.29	1	133	5TH TSP +	14.78	FL
B	OBBIN	108	36	ODI	26	0.28	1	138	5TH TSP +	31 31	FT.
D	OBBIN	109	104	ODÍ	24	0.24	1	135	2ND TSP +	25.19	FL
В	OBBIN	110	13 09	ODI	25	0.50	_ 1	135	LTPF +	21.48	FL
DD	OBBIN	1000011		ODI	54	2.93	F 1	136	BIH TSP +	1.86	FL
B	ÖBBÍN	112	3	ÖDÎ	26	0.40	Pī	123	9TH TSP +	0.27	FL
B	OBBIN	112	4.9	OPI	22	1.36	1	135	14TH TSP+	18.40	FT.
DE	OBBIN	116	113	ODÍ	24	3.38	1	133	15TH TSP+	13:77	FL
B	OBBIN	112 112 113 116 123	4 1133	ODI	23	0.27	1	132	6TH TSP +	26.33	FL
Bo	OBBIN			ODI	23	0.20	1	132	STH TSP +	23.92	FL
B	ÖBBIN	124	14	ODÍ	29	0.40	ī	131	5TH TSP +	14.05	FL
B	OBBIN	125	17	ODI	28	0.58	p 1	131	5TH TSP +	12.50	FL.
nn	OBBIN	129	28	ODI	28	0.25	1	129	5TH TSP +	11.22	FL
B	OBBIN	132	5.6	ODI	28	0.38	1	135	5TH TSP +	10.80	FL
BD	OBBIN	133	29	ODI	51	0.30	Pi	135	ATH TSP +	0.47	FL
B	00000000000000000000000000000000000000	34599009901 2011111111111111111111111111111	811 N4NMN		23	1.49	PI	122	14TH TSP+	0.57	FL
B	OBBIN	151	8	ODI	23	0.79	P 1	122	13TH TSP+	0.55	FLI

The last the last the last the last the last the	AND DEC. SEC.		IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT
T - BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB					\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H. Haddaladaladaladaladaladaladaladaladalad	G:2906940846886867860786046778486664786797754788664460096475587620986940 E:30300030700000000000000000000000000000	7 TH TSPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	19555561431400000551180000000000000000000000000000	
BOBBIN	70 70	71 72	ODI	3.5	0.30	i	125	4TH TSP +	3.55	FL

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT
- NINNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	7 77777777777777777778 8888 888888 8	18 NO985N45N45N46785 9445 790N13		1.477.499.090.499.090.499.099.4999.4999.4		i etriodeletetetetetetetetetetetetetetetetetete	1008867806030500011441300604773940005643038878607090960091783366501888397673	157801m55m900584441850029401816908809819760174076133132644618248409m322n7 19361m55m9005844418500294018169088809819760174076133132644618248809m322n7462 19361m87199656406801477688437123228444611163510043180847122324 19361m87199656406801477688437123324 19361m871996564068014776884371233228444611116351008471223324 19361m87199656406801477688437123322844461116351008471223324 19361m871996566801477688437123328444611116351008471223324 19361m8719965668014776884371233228444611116351008471223324 19361m871996566801477688437123322844461116351004318008471223324 19361m87199656680147768843712332844461116351004318008471223324 19361m8719965668014776884371233284446118324488409m322334 19361m8719965668014776884371233284446118344884848848409m322334 19361m8719966680147768843712332844461183324488409m322334 19361m8719966668014776884371243284446118324488409m322334 19361m8719966680147768843712434466008471243328444861183324488409m322334 19361m871996668014476842444444444444444444444444444444444	

BOBBIN BOBBIN BOBBIN BOBBBIN BOBBBIN BOBBBIN BOBBBIN BOBBBIN BOBBBIN	W 820245 4011249014	12454 7424689684	N-000000000000000000000000000000000000	WI OMATANT WHIMITANAMAN TI BANAMANAMANAMANAMANAMANAMANAMANAMANAMANA	1499464898 149945768		130300010000000000110 130300010000000000	######################################	
TOTAL TOTAL TOTAL	TUBE	ES FO	OUND IONS V INI	FOUN FUT F	PLE =	154	23		

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		 EXTENT	
TINNEST IN BEST OF THE STATE OF	246712	4777776	000000000000000000000000000000000000000	444110N13	45377600 0000000		111111111111111111111111111111111111111	N + + + + + + + + + + + + + + + + + +	7016409 1423116409		
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	00000000000000000000000000000000000000	41119		244454545	0.0000000000000000000000000000000000000	ritiridididi P	111111117	4TH TSP + 15TH TSP + 15TH TSP + 15TH TSP + 15TH TSP + 14TH TSP + 14TH	5.617919 2382540 35493140	FL FL FL FL FL FL	
BOBBIN	62	9	ODI	51	0.32	Pi	104	14TH TSP+ 5TH TSP +	0.38	FL	
BOBBIN BOBBIN	65	52	ODI	69	0.80	1	94	5TH TSP + 4TH TSP +	15.30	FL UTSF FL	
BOBBIN BOBBIN	66	11	ODI	409	0.81	P 1	107	7TH TSP +	0.14	FL	
BOBBIN	67	63	OD!	51	0.54	1	112	3RD TSP +	38.11	FL	
BOBBIN	68	12	ODI	0144	0.38	1	109	STH TSP +	14.36	FL	
BOBBIN BOBBIN	68	66	ODI	1500	0.28	1	102	4TH TSP +	11.68	FL	
BOBBIN BOBBIN	68	69		46	0.48	1	117	4TH TSP + 4TH TSP +	11.82	FL FL FL	
BOBBIN BOBBIN BOBBIN	68	73	ODI	58	0.68	1	104	4TH TSP + 4TH TSP +	7.75 6.74	FL FL	
BOBBIN BOBBIN		11	ODI	52	0.27	1	101	4TH TSP +	5.69	FL FL FL	
BOBBIN			ODI	090	0.36	7	115	3RD TSP +	27.53	FL	
BOBBEIN BOBBBIN BOBBBIN BOOBBBIN BOOBBBIN BOOBBBIN BOOBBBIN BOOBBBIN BOOBBBIN BOOBBBIN BOOBB	69	65	OD!	45	0.41	1	118	4TH TSP +	18.74	FL	
BOBBIN BOBBIN BOBBIN		66 67	ODI	45	0.48	1	118	4TH TSP +	26.56	FL	
BOBBIN BOBBIN BOBBIN BOBBIN BOBBIN	9990	68		57 52	0.51	1	105	4TH TSP + 4TH TSP +	26.32 16.48	FL	
BOBBIN BOBBIN	59	74 62	ODI	50	0.97	P 1	104	4TH TSP +	18.54	FL	
BOBBIN			SDI SDI	550	0.30	1	999	4TH TSP +	5.94	FL	
BOBBIN	70	65	OP!	51	0.46	1	113	ATH TSP +	3.99	FL	
BOBBIN BOBBIN			ÖDÍ	47	0.32	1	116	5TH TSP +	11.37 36.02	FL	
BOBBIN BOBBIN	70 70 70	66 67 72	ODI	56	0.36	1	107	5TH TSP + 4TH TSP +	7.57 4.79	FL	
BOBBIN	70 71 71		ODI	44	0.53	1	120	4TH TSP +	8.53	FL	
BOBBIN	źİ.	75 11 14	SET	549	0.44	1	110	STH TSP +	35.26	FL	
BOBBIN	71	68	ÖDİ	61	0.50	1	105	6TH TSP +	29.12	FL	
BOBBIN BOBBIN	71 72	73 68	ODI	51	0.31	1	112	ATH TSP +	12.25	FL	
BOBBIN BOBBIN	72	71 62	ODI	48	0.63	1	118	4TH TSP +	5.29	FL FL	
BOBBIN	777777777777777777777777777777777777777	807874V&574	ODI	4677	0.46	1	81	7TH TSP +	26.84	FL	
BBINN BBBINN BBBBBBBBINN BBBBBBBBBBBBBB	77	64	10000000000000000000000000000000000000	064	0.62	1	195	7TH TSP +	18.91		
BOBBIN	77	65	ODI	53	0.97	ī	108	71 SP +	16.81	FĽ	

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION	EXTENT
BOBBIN BOBBIN BOBBIN BOBBIN	77 78 79	67 41 18	ODI ODI ODI ODI	14858	83333	11111	113807	6TH TSP + 3.55 8TH TSP + 35.52 8TH TSP + 33.76 12TH TSP+ 9.06	FL
BOBBIN BOBBIN BOBBIN	7777	1666	ODI	5476	0.74	1	122	7TH TSP + 19.42 6TH TSP + 27.03 7TH TSP + 11.32	FL LTSF FL FL FL
BOBBIN	79	6.9	ODDI	7646	0.52	1	117	7TH TSP + 17.49 6TH TSP + 12.78	FL
BOBBIN	888	6666	ODI	657	0.75	1	964	6TH TSP + 6.39 6TH TSP + 9.36	FL
BOBBIN BOBBIN			ODDI ODDI ODDI	1353NO	0.34 0.45	i	117	6TH TSP + 21.21 6TH TSP + 29.90	FL
BOBBIN BOBBIN	80	66	ODI	4167	0.59	1	117	6TH TSP + 20.16 6TH TSP + 21.58 6TH TSP + 22.39	FL
BOBBBILIN BOODBBBILIN BOODBBBBILIN BOODBBBBILIN BOODBBBBILIN BOOBBBBBILIN BOOBBB				755247 756567	01000	11111	19997	6TH TSP + 22.46 6TH TSP + 23.04 6TH TSP + 23.71	
BOBBIN			ODI	64 75	0.47	1	97 83	6TH TSP + 26.74 6TH TSP + 27.09	FL
BOBBIN BOBBIN BOBBIN BOBBIN BOBBIN	80	67	ODI	4574	0.52	1	113	6TH TSP + 24.79 7TH TSP + 16.04	FL FL
BOBBIN BOBBIN BOBBIN	80	68	ODI	74 79 70	0.52	1	77	7TH TSP + 13.82	FL
BOBBIN			OPĪ	661	0.42	1	115	7TH TSP + 10.44 4TH TSP + 11.88	ΫĹ
BOBBEIN BOBBBIN BOBBBIN BOBBBIN BOBBBIN BOBBBIN BOBBBIN BOBBBIN	80	74 64		657050	0.72 0.43 0.40 0.66	11111	11969	6TH TSP + 6.61 6TH TSP + 8.14 6TH TSP + 8.46 6TH TSP + 8.85	
BOBBIN BOBBIN BOBBIN BOBBIN	81	65	ODI	64444 444	0.39	1111	119 111 113	6TH TSP + 15.88 6TH TSP + 16.45 6TH TSP + 9.17 6TH TSP + 9.86	FL
BOBBIN BOBBIN BOBBIN BOBBIN BOBBIN BOBBIN BOBBIN				14000000000000000000000000000000000000		idetetetetetete	900018190	50066900300983961068964194994500348146585768044301444 35570340347633001004076707068348614888476804301093 355703403476330010040767070683486148884184093677890151 +++++++++++++++++++++++++++++++++++	
BOBBIN BOBBIN BOBBIN	81	66	ODI ODI	678677	16577	trictete	08430	5TH TSP + 7.00 6TH TSP + 24.50 6TH TSP + 31.68	FL
BOBBIN	81	68	SPI	53	0.69	1	108	6TH TSP + 25.98 6TH TSP + 31.21	FL
BOBEIN BOBBIN BOBBIN BOBBIN	81 81	69		594444	0.48	Pi	1123	5TH TSP + 3.85 4TH TSP + 19.37 4TH TSP + 24.45 5TH TSP - 0.45	FI LTSF LTSF LTSF
BBITTON NO. TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO	8888	33366		444484114	0000000	Heteletele	7640780	93305679981577555030718888550754 9330567990833440097188885507554 1000000000000000000000000000000000000	
BOBBIN BOBBIN BOBBIN BOBBIN BOBBIN	83	10	ODI ODDI ODDI CDI	454444864 45444864	0.492544	111111	117996	5TH TSP + 8.53 5TH TSP + 8.53 54TH TSP + 4.79 6TH TSP + 6.58 6TH TSP + 18.47	FL

TEST	ROW	COL	IND	%TW	VOLTS	CHN	DEG	LOCATION		EXTENT
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	83	64		456544854444	100000H000000000H000000000000000000000			######################################	77557281391193222049849443155740913928771456356815302 137008443955850427533853415462845941714450011116702688427 1429479361507640023568534431111111111111111111111111111111111	
BOBBIN BOBBIN BOBBIN BOBBIN BOBBIN	0.4			TOOM TOOL	0010673 000100	1	113441111	+++++ TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	18.02 18.420 19.77 20.75	LTSF LTSF LTSF LTSF LTSF LTSF
BOBBIN	04	04	ÖĎÍ	71	0.86	1	86	4TH TSP +	20.84	FL
BOBBIN	84	65	ÖDĪ	84 82	0.45	1	66	3RD TSP + 4TH TSP +	33.34	FL
BOBBIN BOBBIN BOBBIN BOBBIN	84	69	ODI	054780 65461	7354	1	96640	4TH TSP + + + + 4TH TSP + + + + + + + + + + + + + + + + + + +	316000	FL
BOBBIN BOBBIN BOBBIN	84 85	70 66	ODI	445	0.44	titi	1150	4TH TSP +	17.54	FL FL
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	888888 8 588 88888	78567 66666		0840044	74637490	P	100000000000000000000000000000000000000	4TH + + + + + + 4TH + 4T	104301450	
BOBBIN BOBBIN BOBBIN	86	68	ODI	1444	0.769	1	116	3RD TSP + 4TH TSP + 4TH TSP +	14.07	FL
BOBBIN BOBBIN BOBBIN BOBBIN	87 87 87	7 63 67	ODI ODDI ODDI ODDI	44454	1.66017	Hilli	11791112101121011210	4TH TSP + 4TH TSP + UTSF + 4TH TSP + 4TH TSP +	98.6735568 111.267	
BORBIN BORBIN BORBIN BORBIN	87 88 88 88	6666		744464	0.156965	interiories	124946	4TH TSP + + + + + + + + + + + + + + + + + + +	1235.4208	FL FL FL
BBOOMBBOOMBBOOMBBOOMBBOOMBBOOMBBOOMBBO	9,9,9,000,000,000,000,000,000,000,000,0	7410505 1			00000000000000000000000000000000000000	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	100000000000000000000000000000000000000	######################################	15.42756440393849941 142003112018060	
TOTAL TOTAL TOTAL	TUB	ES F ICAT ES I	OUND IONS N IN	FOU	ND = FILE =	154	09 01 57			

QUERY: DEFECT INDICATIONS 20-100% TW, MQI, ADS, & OBS

									LOCATION EXTENT
		men'r	17800 N	TW TO	DLTS	CE	DK	DEG	LOCATION EXTENT 11TE TEP+ 0.37 FL
TEST	BUJW	COL				-	-	**	PT.
0.000 PM	2	5	MOI		0.26	P	2	122	117E TEP+ 0.37
BORRIN	4	23	ODI	29 (0.91		1	132	STE TEN + 9.04
BORRIN	12	44	ODI	44 1	0.61		1	130	5TH TDF + 19.37
BORBIN	2.2	71	ODI	22	0.64		2	136	16TH 188+ 31.01
BORBIN	1.4	7	ODI	41	0.51		1	121	SAME TENA 10 65 FL
BORPIN	1.6	1.3	MOI		0.21		2	108	1012 TEP+ 0.27 FL
BOBBIN	15	1	MOI		0.18	В	4	133	sew TEP + 17.59 FL
BOBBIN	1.5	24	ODI	31	0.47		4	137	14TH TEF+ 31.06 FL
BOBBIN	15	78	ODI	21	0.57		2	123	9TH TEP + 31.41 FL
BOBBIN	16	1.7	ODI	47	5 78		î	129	5TH TEP + 18.05 FL
BOBBIN	1.6	26	COL	3.0	0.40		ī	130	5TE TSP + 12.55 FL
BOBBIN	17	13	CODY	2.6	0.79	9	1	102	5TH TEP - 0.63 FL
BOBBIN	27	27	WAT	40	0.27	-	1	122	5TE TEP + 15.56 FL
BOBBIN			DOM:	3.6	0.44		1	126	STE TEP + 15.25 FL
BOEBIN	4.99	2.0	WOT		0.24		1	115	STE TSF + 16.26 FL
BOBBIE	27	26	COL	33	0.32		1	129	STE TEP + 13.45 FL
BORRIN	2.0	27	ODT	2.8	0.33		1	135	STE TSP + 19.44 FL
BORRIN	3.0	28	COL	3.8	0.40		2.	126	STE TEP + 23.36
BORBIN	2.0		CODI	31	0.24		1	132	5TE TEF + 22.81
BORBIN			COI	23	0.48		1	1.39	5TH TEP + 23.10
ROBBTE	2.8	31	ODI	25	0.21		1	138	5TE TEP + 13.64
BURRTH	1.9	1.3	CDI	3.6	0.37		1	128	72E TEF + 3.14
BORETE	19	29	ODI	31	0.35		1	131	SIE 188 + 15.15
BOBBIN	21	2.7	COL	42	0.46		1	121	reser ence a 11 61 FL
BOBBIE	22	3.3	COI	3.4	0.43		2	125	AWW TED + 34.00 FL
BOBBIE	22	5.6	ODI	41	0.50		*	120	498 TEP + 14.40 FL
BOBBIE			ODI	3.3	0.27		4	220	4TE TEP + 34.99 FL
BORBIN			ODI	6.3	0.51		1	120	4TE TEP + 35.25 FL
BOBEIN	-		ODI	22	0.00		1	128	STE TEF + 11.32 FL
BOBBIN	23	33	CODI	22	0.21		1	136	STH TSP + 11.24 FL
BOBBIN	23	29	MOT	37	0.31	7	1	125	4TE TEF + 33.32 FL
BORBIN	2.3	37	ODIT	3.6	0.2	0	2	128	4TE TSF + 33.92 FL
BORBIN			ODI	37	0.43	3	3	125	4TE TEP + 34.35 FL
BOBBIN	26	2.6	CDI	32	0.33	2	2	124	STE TEP + 12.85 FL
BORRIN	24	5.6	ODI	31	0.4	Ġ.	1	130) ATE TEP + 34.07
BOBBIN	24	57	ODI	35	0.3	Ø	1	127	7 4TE TEP + 32.81
BOBBIN	25	1.6	ODI	3.2	0.2	6	2	121	5TE TEP + 14.32
BOBBIE	25	57	ODI	37	0.5	1	3	221	5 4TE TEF + 36.10
BOBBIE	26	20	ODI	30	0.6	7	- 2	137	sww men . 9 29 FL
BOBBIE	26	3.2	ODI	3.8	0.2	7	- 3	1.21	4 499 TEP + 32.50 FL
BOBBIE	26	5.5	CDI	27	0.6	9		1 12	5 5TE TEP + 12.92 FL
MORRIN	28	25	ODI	37	0.5	T.		1 12	7 LTFF + 21.60 FL
BORBIE	21	27	ODI	25	0.3	7	- 1	1 13	6 STE TEP + 12.26 FL
MOBBIE	23		1 1007.5	2.0	0.2		p	1 6	0 4TE TEP + 0.48 FL
BOBBIE	2.7	5 61	TOTO 3	2.9	0.3	2	-	1 12	7 LTFF + 21.68 FL
多の形形 乙列	31	3 500	ION 3	-	0.4	5		1 7	3 5TE TEP + 14.39 FL
BOREIN	34	6 2	A MOI		0.2	8	P	1 10	4 STE TEP - 0.23 FL
BOBBIN	3	6 6	S ODI	31	0.2	9	P	1 11	3 57E TEP - 0.13 FL
BORBIN	31	6 9	5 ODI	3.6	0.3	5	P	1 11	1 5TE TEF - 0.13 FL
BOBBIE	31		5 MQI		0.2	5	P.	1 8	1 STE TEN - U.U.
BOBBIN	3		1 ODI	6.6	0.8			1 12	0 15TE TEP+ 14.36 FL 2 LTFF + 19.81 FL
BORBIN	- 4		2 ODI	61	0.4			4 44	2 5TE TEP + 13.27 FL
BORBIE -	4		e oni		. 0.2			1 13	8 4TE TEP + 35.80 FL
BOBEIR	- 4		E CODI		0 - 2			1 13	1 10TH TEP+ 2.09 FL
BORBIN	4		3 ODI		0.1			1 30	6 STE TEP + 31.59 FL
BOBBIE	4		9 ODI 1 ODI		0.1			1 12	16 LTPF + 22.21 FL
BOBBIE	4		1 ODI		100			1 11	1 5TH TEP + 1.11 FL
BORBIE			1 ODI					1 13	16 4TH TEP * 30.95 FL
BORBIN			O MÖI		0.3			1 11	6 LTPF + 21.53 FL
BONEIE			9 ADS		2.	68		5 10	04 LTSF + 22.48TO+ 30.17 FL
BOBBIN			D ODI		0.	22		1 11	26 STE TEP + 11.37 FL
BOBBIE		3 2	E ODI	33		26		1 13	
BOBBIE		6	1 OD3		1.	1.6	8	2 1	TO TRYEN THE A PARTY
BORBIE			TO ODI		0.	6.6	-	4 4	24 LTPF + 7.06 FL 68 4TH TSP + 0.07 FL
BORBIN			s mo:		0.	13	32	2 2	27 4TE TEP + 13.91 FL
BORBIN	3	57 6	ED ODI	3 6	U.	46.50			
									At

Attachment 5 Page 1 of 9

QUERY: DEFECT INDICATIONS 20-100% TW, MQI, ADE, & OBS

TEST	ROW	COL	IMD	%TW	VOLTS	C	NON.	DEG	LOCA	TIOE		0.00 0.90 0.12 0.03 22.19 16.90 13.90 14.93 16.93 16.32 16.93 16.23 16.23 16.25 16.93 17.08 12.75 18.90	 EXTEST
BOBBIE	87	126	WOT		3.24	p	1	8.2	LTER		*	0.00	FL
BORRIN	5.6	112	MOI		0.57	P	1	68	15TE	TEP	+	0.90	FL
BOBBIN	5.9	5	ODI	36	0.38	p	1	118	1478	TER		0.12	FL
BOBBIN	60	1	ODI	24	0.32	P	1	127	12TE	TER	4	0.12	FL
BOBBIE	60	5	ODI	58	0.31	P	1	27	LATE	TEP	+	0.09	M.T.
BORBIN			ODI	51	0.32	P	1	104	1472	TER	+	0.38	FL
BOBBIN	60	7.9	ORE						4.7040	men	*	22.19	UZBF
BORBIN	61	4.9	ODI	21	0.25		2	112	6.4-M	TRE	7	14 90	FT.
BOBBIN	62	, ,	ODI	58	0.80		3	84	278	TEP	-	15.30	FT.
BOEBIN	-		ODA	33	0.46		1	126	FTE	TEP		30.90	FL
RORRIN	63	3.0	2,000	20	0.48		ĩ	103	STE	TEP	+	14.34	FL
BOSETS	63	52	CODI	24	0.71		1	136	4TH	TEP	+	17.25	PL.
BORRIN	63	68	CDI	21	0.41		1	138	4TH	TEP	4	9.09	FL
BOBBIE			ODI	34	0.67		1	127	4TE	TEP	+	7.89	FL
BOBBIN	64	1	CDI	20	0.37		1	138	1411	I TER	+	32.94	FL
BORBIE	6-6	11	ODI	31	0.37		1	129	57E	TEP	+	15.80	FL
BCEEIN	6.5	3	CDI	36	0.24		2	127	71E	TEP	*	4.94	FL
BOBBIN	6.5	4	COI	3.8	0.16	P	1	113	1473	TES	+	0.25	FL.
BORBIN	65	2.5	COI	26	0.29		7	135	SIE	ZBF	*	12.75	B.L.
BCERIE	-		ODI	37	0.38		1	127	2 7 St	TRE	*	14 00	PT.
BOREIN	65	51	COI	33	0.74		-	100	4 440	TRE	-	76.80	TTEF
BORRIE	6.5	52	ODI	2.0	0.30		1	221	6.7%	TED	I	4.03	FL.
BCEETE	6.5	6.3	CDI	20	0.34		1	123	4.9%	TEP		9.68	FL
BORBIN	65	7.0	OUT	33	5.21		1	128	1077	TEI	14	27.75	PL
BODE TE	66	2	CDI	40	0.61	P	1	112	7TE	TEP		0.16	FL
BORRIN	66	4	MOI		0.21	P	1	85	1477	TEN	p	0.06	¥7.
BOREIN	6.6	22	COI	59	0.68		1	107	STH	TEF	+	15.08	FL
BORRIN			COI	37	0.30		1	126	57E	TEP		14.51	W.L.
BOESIN	6.6	63	MOI		0.25		1	116	4TE	TEP	+	10.31	B.77
BORRIN	66	66	ODI	22	0.32		2	137	ATE	TEF	+	8.09	R.T.
BORBIE	6.6	70	ODI	36	0.53		7	126	478	TER	*	6.30	PT.
BOBBIN	66	72	ODI	23	0.61		ž	235	428	TOP	1	93 55	F7.
BACKE IN	67	1.9	ADS	20.00	0.40		-	133	4 990	dell D	I	12.36	FL
BORBIE	67	62	COL	52	0.57		1	111	380	TEP		38.17	FL
BOBBIN	67	63	opi	51	0.54		1	112	3 RJD	TEP	+	38.11	FL
BOXETN	67	65	CDI	3.8	0.61		2	124	STR	TEP	+	10.58	FL.
BORBIN			ODI	3.9	0.37		1	124	SED	TEP	*	37.70	MT
BORBIN	67	68	ODI	22	0.32		2	137	BED	TEP	4	20.10	P.L.
BOREIN	67	69	ODI	36	0.34		2.	126	ATE	TEP	*	7.70	FL
BCBBIN	58	11	ODI	63	0.35		2	100	STE	TEP	+	15.64	FL
BORRIN	6.8	2.2	ODI	54	0.38		2	109	STR	TEF	*	14.36	W.L.
BORE DE		**	ODI	55	0.31		2	126	222	TEP	*	74 74	PT.
BOREIN	6.0	9.3	ODI	22	0.45		-	230	4441	TOP	-	7.73	FL
BORRIN	66	66	ODI	5.9	0.28		1	1.02	4TE	TEP		11.68	FL
BORRIE	**		COL	52	0.68		1	110	SED	TEP		38.23	FL
BCBBIH			ODI	25	0.60		1	136	380	TEP	+	38.00	FL
BOREIN	68	68	ODI	27	0.51		1	135	4TE	TEP		11.16	FL
BORRIN	6.0	69	COI	4.6	0.48		2.	2.27	4TH	TEP	+	11.82	
BORRIN			COI							TEP			FL
BOREIN			ODI				1			TEP			FL
BORBIN			ODI				1			TEP			FL
BORBIN	6.8		ODI				1			TEP			FL. FL
BOREIN	68		ODI				1			TEP		6.74	FL
BORBIN	0.0	13	ODI				1			TEP			FL
BORRIN			ODI				1			TEP			FL
BORRIN			001				1			TEP			FL
BORBIN	6.9	11	ODI				1					15.65	FL.
MIRROR	6.9		ODI				2					14.22	FL
BORNIK	6.9	63	ODI				3					31.65	FL
BCBBIN			ODI				1					27.53	FL
BOREIM	6.9	6.5	ODI							TEP			FL
BORRIN			ODI				1					18.74	FL. FL
BORRIN			003				7					28.19	FL
BORRIN	65	66	ODI									12.86	FL.
Grundrer (UB)	20.3	0.0	Salar A	2.4			-						

QUERY: DEFECT INDICATIONS 20-100% TW. MQI, ADS, & OBS

								ATE TSP + 11.12 3ED TSP + 37.10 4TE TSP + 26.56 3ED TSP + 30.86 4TE TSP + 26.32 4TE TSP + 20.09 3ED TSP + 30.50 4TE TSP + 20.56 3ED TSP + 27.89 4TE TSP + 16.48 4TE TSP + 16.48 4TE TSP + 16.48 4TE TSP + 16.48 4TE TSP + 16.69 3ED TSP + 21.24 3ED TSP + 21.24 3ED TSP + 20.66 3ED TSP + 20.66 3ED TSP + 20.66 3ED TSP + 16.55 4TE TSP + 0.65 4TE TSP + 0.70 4TE TSP + 0.70 4TE TSP + 1.28 4TE TSP + 1.28 4TE TSP + 1.28 4TE TSP + 1.28 4TE TSP + 1.672 4TE TSP + 1.577 1.1TE TSP - 0.87 5TE TSP + 11.18 5TE TSP + 15.56 5TE TSP + 7.81 4TE TSP + 6.44 4TE TSP + 7.86 4TE TSP + 7.86 4TE TSP + 3.99 5TE TSP + 15.61 5TE TSP + 5.54 4TE TSP + 5.54	
TEST	ROW	COL	IND	FIN	VOLTE	CHR	DEG	LOCATION	EXTEST
	***	W 80 W	ODT	3.0	0.47	1	125	4TH TSP + 11.12	PT.
BOBBIN			ODI	41	0.37	1	122	3RD TSP + 37.10	FL
BORBIN	69	67	ODI	45	0.48	1	118	4TE TEP + 26.56	FL
BORRIN		-	CDI	51	0.39	1	112	3ED TEP + 30.86	FL.
BOBBIN	69	68	ODI	57	0.51	1	105	4TE TEP + 26.32	PL
BORBIN			ODI	34	0.25	1	128	4TH TEP + 20.09	PL
BOBBIN			ODI	25	0.49	1	136	3ED TEP + 30.50	F.L.
BOBBIN	6.9	6.9	ODI	36	0.66	1	127	EIN IBF + AU.50	Brita.
BOBBIN BOBBIN BOBBIN			COI	37	0.34	- 4	120	190 men + 27 80	PT.
BORNIE			CODI	30	0.23	- 1	111	ATE TED + 17.41	PT.
MORRIN	6.9	7.0	ODI	52	0.29	- 1	111	4TH TEP + 16.48	FL.
BORBIN BORBIN BORBIN BORBIN			ODT	25	0.65	1	136	4TE TEP + 14.98	FL.
BOBBIN			COL	32	0.56	1	130	4TE TSP + 16.69	FL
BORRIN			api	33	0.58	1	129	3RD TEF + 21.24	FL
BORETW			ODI	34	0.16	1	128	3ED TEP + 20.66	FL
BOBBIN	€ 9	72	CDI	23	0.49	P 1	104	3ED TEF + 38.55	FL
BOBBIN	6.9	73	MOI		0.72	P 1	109	4TH TEF + 0.65	FZ.
IN COME TO STORY			MOI		0.32	1	116	4TH TSP + 4.93	FL
BOBBIN	6.9	74	ODI	50	0.97	P 1	104	4TH TEP + 0.70	FL.
NO. ALEXANDER MICHAEL			ODI	27	0.48	1	135	4TE TEP + 4.88	974
BOMBIN	69	75	ODI	37	0.27	1	126	4TE TEP + 3.08	F Le
BOBBIE			COI	27	0.40	1	135	4TH TEP + 1.28	F Li
BORBIN	70	52	ODI	3.6	0.41	- 3	129	CIE TEF + 16.72	F.L.
BORBIE	70		MÖI		0.45	_ 1	124	4TE TEF + 15.77	F &
BORBIN	7.0	62	ODI	30	0.63	h 7	124	PART TEN - U.S.	PT.
BCERIN			ODI	52	0.42		110	SIR ISF + AB.30	WY.
BORBIN			ODI	25	0.26	- 4	125	PIR IRF 7 44.10	¥7.
BOBBIE			CXDI	25	0.22	- 1	125	CHE WED 4 7 81	FI.
BORRIE			ODI	43	0.38	- 1	2.2.2	4TH TED 4 7.86	PI.
BORRIN			PET	2.6	0.49	1	132	4TH TEP + 6.44	FL
BOBBIN			ODT	65	0.30	1	9.8	4TH TEP + 5.94	FL
BOBBIN			ODY	55	0.33	- 1	100	4TE TEP + 4.42	FL
BOREIN BOREIN BOREIN BOREIN BOREIN BOREIN			ODI	51	0.66	1	113	4TE TEP + 3.99	FL.
BOBBIE	70	65	ODI	30	0.24	1	132	STE TSP + 15.61	FL
BOBBIE		0.0	ODI	32	0.68	1	130	STH TEP + 13.51	FI.
BORBIN			ODI	4.8	0.32	1	115	STE TSP + 11.80	FL
BORBIN BORBIN BORBIN BORBIN			CDI	4.7	0.32	2	116	STE TEP * 11.37	FL
BORRIN			CDI	27	0.48	1	135	STE TEP + 9.58	FL
BOEBIN	70	6.6	ODI	27	0.26	- 1	135	5TE TEF + 16.38	FL
			ODI	63	0.28	1	9.8	4TH TE! + 36.02	R.T.
ROBBIN	70	67	ODI	5.6	0.36		107	STE TB/ + 7.57	F L:
BORBIN	70	71	COL	24	0.43	- 1	130	4TB 7AF + 0.17	PT.
BORRIN BORRIN BORRIN BORRIN BORRIN			ODI ODI ODI	24	0.26	- 4	137	AFA TED 4 8 79	97.
新公園取工 図			COL	23	6 50		136	ATT TED . 7.65	WI.
NORS IN			COL	20	0.55	- 1	324	47K TEP + 5.94	FL
BOBEIN	70	9.0	ODT	21	0.36		160	4TE TEF + 5.94 4TE TEF + 5.30	FL
BORBIE	2.50	7.80	ODI	47	0.37	1	116	4TE TEP + 4.79	FL
BOREIN			ODI	4.3	0.30	1	120	4TH TEP + 6.24	FL.
BOBBIE			COI					4TE TEP + 3.55	FL
BORRIN	7.0	73	MOI					4TE TEP + 0.65	FL
BORBIN			SECI		0.69	P 1	102	6TE TEP + 0.62	FL
BORBIN	70	75	ODI	- 44	0.53			4TE TEP + 8.53	FL.
BOEBIN	72	11	COI	62	0.66			5TE TEP + 35.54	R.T.
BOBBIN	71	14	CODI		. 0.44	- 2	110	5TE TEP + 35.26	FL
BORBIN			ODI			- 3	119	STE TEP + 35.03	FL
ROBBIN	7.1		opi					7TE TSP + 18.78	FL
BOBBIE	71	6.8	ODI					6TE TEP + 29.95	PL.
BOBEIN			ODI					STE TEP + 29.12	FL
BORBIN			ODI					3ED TEF + 33.27 2ED TEF + 15.74	FL
BORRIN			ODI					2MD TEP + 14.97	FL
BORRIN	71		ODI					STE TEP + 3.54	FL
BOBBIE	1.4	0.3	ODI					4TE TEP + 35.90	FL
BORRIE			ODI					4TE TEP + 34.82	FL.
BOBBIN	7.3	7.0	001					3ED TSP + 21.98	FL
BOBBIN	71		001					4TH TSP + 1.35	FL
BOBBIN	72		ODI					4TE TSP + 36.78	FL

QUERY: DEFECT IMDICATIONS 20-100% TW. MQI. ADE, 4 OBS

	20.000		wn sees	TOUTE	CEN	DEG	LOCA	TION		EXTEST
TEST	ROW	COT T								
		60 O			- 15	明明发	SC ALLERS	TREE	* 11.50	8.44
BOBBIN	72	68 O	mr si	0.83	1	6.6	TTH	TEP	+ 12.25 + 25.31 + 5.29	What
BOBBIE		69 0	mI 34	0.62	1	123	STH	TEP	+ 25.31	F La
BOBBIN		71 0	DI 4	0.63	1	118	ATE	TEP	+ 5.29	FL FL FL LTSF FL FL
BOBBIN			TO	0.32	1	122	SED	TEP	+ 33.98	F L/
BOBBIN	72	72 0	west to	0.34	1	137	SIE	TEP	+ 9.36	E Al
BOBBIN	73	53 3		0.21	P 1	108	SIE	TEP	- 0.49	7.758
BOBBIN		62 0		0.83	1	723	SIE	TEF	+ 8.03	ALT BAR
BOBBIN		72 H	TOT	0.42	2	113	4TH	TEP	+ 10.79	FL
BORRIE	74	49 3	TON	0.21	P 1	90	2300	TEP	+ 0.05 + 6.73 P+ 33.81	FL
BOBBIN		62 0		3 0.37	1	98	713	TEP	+ 6.73	FL
BORBIE				c 0 46	1	117	1077	H TE	P+ 33.81 P- 0.93 + 37.43	E M
BOBBIE	75	51 1								
BOBBIN	75	52 7	TON	0.25	1	90	TH	TEP	+ 37.43	FL FL FL FL FL FL FL FL FL FL FL FL FL F
BORBIN	7.5	53 1	77.4	0.91	P 1	. 22	UTS	F	- 0.18	F.L.
BOBBIN	75	68 0	ODT 3	5 0.23	1 2	128	4TH	TEP	+ 18.03	E As
BOREIN	75	65 0	ons 7	7 0.37	1	83	TIE	TEP	+ 26.84	Y Li
BOREIN	76	62 (ODT 1	9 1.33	1 2	120	7TH	TEP	+ 27.25	F Li
BOBBIN			SALL A	0.63	3	120	LIP	F	+ 2.57	FL
BOBBIE	76		MAN A R	2 0.34	. 1	114	412	TEP	+ 19.71	P L
BORBIN		51	WEA P	0 0.21	3	124	STE	TEP	+ 11.25	FL.
BORRIN		62	ODI A	E 0.5		91	TIE	TER	+ 18.91	PL.
BORRIN	77		ODI 4	0 0 6	0 1	121	773	TEP	+ 19.73	YL.
BORRIE			ODI 1	2 0.6		1 10	778	TEF	+ 21.17	FL
BORBIN			CDI (1 5 9	9 1	1 13	2 7338	TEP	+ 6.52	FL
BORRIN	77		ODI	2 0 4		1 12	3 7TH	TEP	+ 9.19	FZ.
BOREIN			ODI	13 0.4		1 13	1 773	TEP	+ 16.32	PL.
BORRIN			ODI	(2 0.5	19	1 10	8 723	TER	+ 16.81	FL.
BORBIN			And the same of		ge .	9 3 3	7 6 7 7	E 7288		0.00
BOREIN	77		ODI	10 0.2	4	1 33	1 677	E TER	+ 3.55	FL
BORBIN			ODI	29 0.0	7	1 13	OUT	CF.	+ 6.50	FL
BORBIN	78		ODI	17 0.3		5 8	1 337	TER	7 4 7.94	FL
BORBIN		39	ADS	0.0	8	1 10	8 877	E TEL	9 + 35.52	FL
BOREIN	7.8	41	ODI	58 0.2	4	1 12	5 877	E TEI	P + 35.10	FL FL FL FL FL FL FL FL FL
BOBBIN			ODI	39 0.0	6	1 12	0 877	E TEI	P + 33.76	W.L.
BORBIN			ODI	45 0.3	9	1 12	2 733	E TEI	P + 16.65	FL
BORRIN	71		ODI	36 0.5	-	1 11	1 777	E TE	P + 34.04	FL
BOBBIE	71		ODI	23 0.5	6 10	9 9	6 79	H TE	p - 0.23	A.T.
BORRIN	71		MÖI	0.3	4 %	2 8	2 17	delli de	504 9.06	FL
BORBIN	7.5		COL	68 0.3		1 15	5 69	W TE	P + 11.39	FL
BOBRIN	7.5		ODI	55 9-7	4	2 11	2 67	W TE	P + 14.68	FL FL LIEF LIEF LIEF FL
BOBBIN	71		ODI	35 0.4	150	4 44	15 49	E TE	P + 12.64	LIEF
BORBIN	7		ODI	32 0.2		2 22	11 77	W TE	P + 16.84	LTSF
BORBIN	7		ODI	32 0.3	0.6	1 11	22 77	E TS	9 + 19.42	LISF FL FL FL FL
BOBBIN			CDI	42 0.5	2.75	7 1	17 63	W TE	P + 23.55	FL
BORRIN	7	9 68	30,77	90.00				-	m . m s. m s.	FL
BCEBIE			MÖI		24	1	78 53	TE TE	(P + 20.70 (P + 27.03 (P + 10.03	FL
BORBIN			ODI							
ROBEIN			MOI		25	3	68 73	CK TE	FP + 11.32	FL
BORRIN			ODI			1 1	17 77	CE TS	IP + 17-43	FL
BORRIN			ODI			1 1	24 87	TH TH	EP + 12.06	PT.
BORBIN			ODI	-	50	1	99 63	TE TE	EP + 12.76	YL.
BOREIN	. 7	9 65	ODI	200		1	98 63	TH TH	EP + 21.63	A.T.
BOREIN			ODI		37	1 1	33 5	TE TI	EP + 16.92	B.T.
BCERIE			ODI		23	1 1	25 1	TE :	TEP- 0.16	AT
BORBIE			MOI		92 P		90 D	TSF	- 0.19	FL
BOKEIN			ICM C	2000 000		1	96 6	TE T	EF + 6.39	FL
BORRIN			2 ODI		75	1	86 6	TH T	EP + 9.36	FL
BORRIN		60 61		73 0.		2 3	21 6	TH T	SP + 17.11	FT.
BORBIN		60 65	5 ODI	37 0.		1 1	17 6	TH T	SF + 21.21	FL.
BOBBIN			ODI		36	1 1	37 6	TE T	EP + 25.36	FL
BORBIN			ODT			1 1	27 6	TH T	EP + 28.96	FL.
BORBIN			ODI		62	1 1	23 6	TE T	BP + 29.48	FL
BOBBIN			CODI		67	1	90 6	TH T	SP + 29.90	FL.
BORRIN			ODI		.45	1 :	127 6	TE T	SP + 20.16	YL.
BORBIN		80 €	e opi		.59	1	94 6	TH T	SP + 21.58	FL
BOBBIN			ODI		.12	1	93 6	TE T	SP + 22.29	T.1.
BORBIN			ODI		.50	2.	96 6	TH T	TSP + 22.46	YL.
BOBBIN			ODI		.42	1	109 (FTH T	rsp + 23.04	YL.
BOBBIN			ODI		.72	1	97	TE 7	TEP + 23.71	FL
BORBIN			ODI	64 0	-14	-	7			

QUERY: DEFECT IMDICATIONS 20-100% TW. MQI, ADS. 4 OBS

TEST	ROW	COL	IMD	FTW	VOLTS	CEM	DEG	CTH TSP + 24.69 6TH TSP + 24.69 6TH TSP + 25.25 6TH TSP + 26.74 6TH TSP + 26.74 6TH TSP + 26.79 7TH TSP + 16.04 7TH TSP + 13.82 7TH TSP + 13.82 7TH TSP + 15.61 3FD TSP + 26.00 3RD TSP + 30.75 7TH TSP + 10.66 3RD TSP + 31.97 4TH TSP + 11.88 4TH TSP + 11.88 4TH TSP + 11.88 4TH TSP + 12.72 6TH TSP + 6.61 6TH TSP + 6.61 6TH TSP + 8.16 6TH TSP + 8.16 6TH TSP + 8.16 6TH TSP + 8.85 6TH TSP + 12.66 6TH TSP + 13.77 6TH TSP + 13.30 6TH TSP + 13.30 6TH TSP + 13.30 6TH TSP + 24.55 6TH TSP + 24.55 6TH TSP + 24.50 6TH TSP + 31.36 5TH TSP + 31.67 6TH TSP + 31	KIMMI
			ODI	77	0.61	1	81	6TH TSP + 24.69 F	T.
BORRIN			ODI	24	0.81	4	130	6TE TSP + 25.25	L
BOBBIN			ODI	64	0.47	1	97	6TH TSP + 26.74	L
BOBBIN			ODI	75	0.53	1	6.3	STE TEP + 27.09	L
ROBBIN	80	67	ODI	4.6	0.52	2	113	STE ISF + 24.79	20
BOBETH			ODI	5.8	0.79	1	101	7/E 15F + 10.04	PT.
BOBBIE	6.0	6.8	ODI	74	0.32	4	99	748 460 4 13 82 8	PI.
BOBEIN			ODI	7.9	0.54	1	132	77% TEP + 15.(1)	TL.
BOBBIN	2.6		ODI	22	0.65	î	131	3FD TEP + 26.00	TL.
BCEBIN	8.0	6.2	ODI	3.0	0.74	1	120	3MD TSP + 30.75	TL.
BOBBIN			COL	70	0.60	1.	2	7TE TEP + 2.33	TL .
BORRTE			ODI	66	0.42	1	94	7TE TEP + 10.66	The same
BORBIN	80	70	COI	29	0.49	1	127	3RD TSP + 31.97	The second
ROBBIE	80	74	ODI	51	0.38	1	115	4TH TEP + 11.88	At .
BOBBIN			ICO	34	0.67	1	130	ATE TEP + 12.72	PT.
BOBBIE	81	64	CDI	30	0.80	1	77.0	FOR 185 + 5.52	PI.
BORRIN			CDI	67	0.72	- 1	131	61E 157 4 5.52	FL
BOBEIR			ODI	2.3	0.63	1	111	STE TEP . 8.14	FL
BORBIR			ODI	48	0.40	1	96	6TE 75P + 8.46	PL.
BORRIN			ODI	40	0.66	1	119	6TE TSP + 8.85	PL
BORBIN			ODI	23	0.75	1	131	ETE TEP + 11.24	rL.
BORBIN			ODI	67.	0.39	1	39	6TE TEP + 15.88	rt.
BORRIN			ODI	40	0.60	1	119	6TH TEP + 16.45	PL.
BOBBIE	81	65	CDI	35	0.32	1	122	STE TEP + 8.89	PL.
BORBIE			ODI	4.0	0.92	1	111	6TH TEP + 9.17	PT.
BOBBIN			ODI	4.6	0.82	1	113	67E 75F + 5.55	PT.
BOERIE			ODI	22	0.61		124	CTR TOP + 12 48	FL
BORRIN			CODI	25	3 40	1	3.21	6TE TSP + 15.44	87
BOBBIN			ODI	61	2.31	1	98	STE TEP + 16.48	FL
BCEBIN			007	50	1.63	1	109	6TH TSP + 17.22	FL
BORRTW			COL	27	0.96	1	128	STE TSP + 17.72	FL
BOBEIN			LDI	5.6	1.35	1	103	6TE TEP + 17.94	FL
BORBIN			ODI	52	1.38	1	107	STE TEP + 18.73	FL
BORBIN			ODI	34	1.03	1	123	6TH TEP + 19.30	E.L.
BOBBIN			ODI	4.0	1.34	- 2	118	STE TEP + 19.52	971
BORRIN			ODI	73	1.35	2	33.6	57E 18F + 20.32	9°L
BOREIN			OD 1	2.4	0.48	1	123	6TH TSP + 23.71	FL
BORRIE			C# 1	3.9	0.89	1	119	6TH TSP + 24.18	FL
BORRIN			ODI	25	0.81	3	126	STH TEP + 34.05	FL
BO 2B IN			CDI	67	0.70	1	91	6TE TEP + 25.94	FL
BOAB			CDI	63	1.14	. 1	. 98	6TH TEP + 31.34	&T
BOBB	6.3	. 66	ODI	71	0.62	3	. 88	STE TEP + 7.00	FL.
BCEBIN			ODI	81	0.53		74	STE TEF + 24.50	PT.
BORRIN			ODI	67	0.73		9.1	678 760 4 33 79	FL.
BCEBIE			7 003	31	0.86	,	124	7TE TSP + 18.21	FL
BORBIN	8:	61	E ODI	51	0.65	1	108	6TH TEP + 25.98	FL
EOBBIE			OD:	9 !	0.78		51	6TH TEP + 31.21	FL.
BOBBIE			OD:		0.64	P :	1.23	7 TH TEP + 0.15	F L
BORRIE	8.	1 6	9 00	35				5TE TSP + 3.36	57
BORBIE			OD:					STR TEP + 3.85	FL
BORBIN			OD:				1 12	7 STN TEP + 8.58 8 STE TSP + 11.59	FL
BOBBIN			OD:					3 3RD TEP + 23.46	LIST
BORTIN	8.	1 2	OD:					5 3MD TEP + 34.87	LIST
BORBIN			OD					4TE TSP + 19.37	LIST
BOREIN			OD		0 0.53		1 12	4 4TE TEP + 24.45	LTEF
BOBBIN			OD		4 0.43	L P	1 11	5 5TE TEP - 0.45	LIEF
BORBIE			OD			0	1 11	7 STE TEP - 0.05	LTEF
BOREIN			OD					2 STE TEF + 2.29	LTSF
BORNIN	8	2 3	1 00					1 UTSF + 3.85	FL
BOBBIN			OD					6 5TE TEP + 9.90 0 5TE TEP + 9.20	FL
BORBIN	8		2 OD					0 STE TEP + 9.20 4 STE TEP + 8.73	FL
BOBBIN	. 8		3 OD					5 5TB TEP + 4.88	FL.
BOBBIE	8		3 00				1 12	7 STE TEP + 17.21	N.L.
BORBIN		* 0	2 100		w . w . w			A STATE OF THE STA	

QUERY: DEFECT INDICATIONS 20-100% TW, MQI, ADS, & OBS

Prog. 0.00	TO COME	2001	77970	5, 7757	TINT TE	CHEN	nec	STE TSP + 24.12 STE TSP + 25.48 STE TSP + 25.48 STE TSP + 10.48 STE TSP + 10.96 4TH TSP + 2.69 4TH TSP + 2.67 4TE TSP + 6.82 STE TSP + 6.83 STE TSP + 8.53 4TE TSP + 8.53 4TE TSP + 6.58 4TE TSP + 6.58 4TE TSP + 6.28 LSTE TSP + 6.38 4TE TSP + 6.37 STE TSP + 18.47 STE TSP + 18.50 STE TSP + 18.62 4TE TSP + 25.51 3ED TSP + 25.51 3ED TSP + 25.51 3ED TSP + 25.51 3ED TSP + 26.31 4TE TSP + 10.89 4TE TSP + 26.46 4TE	EXTERT
1851	S.UW	***	***		****			LOCATION	*****
BOBBIN			ODI	64	0.56	1	70	STE TEP + 24.12	FL
BOBBIN			ODI	3.0	0.33	1	126	STH TSP + 25.48	F1.
BOBBIN			ODI	33	0.53	2	124	STE TEF + 4.40	PL.
BOBBIR	82	65	ODI	27	0.41	1	128	STE TEP + 10.48	8.Tr
BOBBIN			ODI	27	0.45		128	STR TEF + 10.90	3.Tr
BOBBIN	#2	6.7	ODI	34	0.45		122	618 188 + 2.63	F7.
BOBBIN			ODI	6.1	0.63		100	ATTO THE A A SE	PT.
BORRIN			ODT	48	0.56	î	110	TTE TED + 6.82	NT.
BOBBIN			ODI	37	0.66	1	120	STH TEF + 7.18	FL.
DODDIN			ODI	29	0.86	1	127	STE TEP + 8.29	FL
BORRIN			ODI	48	0.49	2	110	STH TEP + 8.53	FL.
BORBIE			ODI	23	0.80	1	131	ETE TEP + 3.70	FL
BOBBIN			COI	46	1.12	1	114	4TE TEP + 5.04	FL
BOBBIN			ODI	81	0.45	1	7.5	6TH TEP + 4.79	A.T.
BORBIN			ODI	62	0.84	. 1	99	STE TEP + 6.58	P'L
BORBIN	82	71	ODI	27	0.60	- 1	135	4TE TSP + 6.28	PL
BORRIN	83	1	ODI	38	0.47		123	15TH TNF+ 0.11	FL
BOBBIE	#3	2	COI	3.8	0.23	,	126	13TH TEP- 0.19	FL
BORBIN	E.3	1.0	CDI	4.5	0.74		77.0	STE 188 + 18.97	PT.
BORRIE	8.3	1.1	DDI	20	0.30	1	197	ETW TOD . 13 70	WY.
BORETE			CODY	20	4.7	1	128	ATH TED 4 17 67	FT.
BORBIN	83	64	ODT	5.6	0.45	1	104	4TE TEP + 2.73	FL
BORRIN	0.0		ODI	33	0.36	1	127	4TE TEP + 5.36	FL
BORETH			ODI	6.5	0.48	1	93	STE TEP + 9.05	FL
BORBIN			ODI	32	0.39	1	128	STE TEP + 11.50	FL
BOBBIE			ODI	53	0.32	1	107	STE TEP + 14.07	FL.
BOREIN	8.3	66	ODI	4.7	0.54	1	114	4TH TSP + 7.82	FL
BOREIN			ODI	44	1.03	1	117	4TH TEP + 9.48	FL
BORBIN			ODI	22	0.69	. 1	137	4TE TEP + 14.16	FL
BOBBIE			ODI	8.3	0.70	1	63	4TE TEP + 33.41	The second
BORBIN			ODI	50	0.60	1	111	STE TEP + 6.33	W.L.
BORRIN	100.00		ODI	9.5	0.59	4	112	SIR TBF + 11.39	TTOP
BORBIN	B 3	6.9	ODI	9.1	0.65	1	135	380 28F + 43-34	TTEF
BOBBIE			ODI	3.6	1 17	1	226	499 TEP 4 8 11	LTEF
BORRIN			ODT	44	0.56	1	120	4TH TEP + 10.89	LTSF
BORRIN			ODI	31	0.37	î	132	4TE TEP + 15.07	LTEF
BORRIN			ODI	4.5	0.53	1	119	4TE TEP + 17.52	LTSF
BCBEIN			ODI	51	0.40	1	113	4TE TEP + 18.02	LTSF
BCBBIR			ODI	40	0.51	1	1.24	4TH TSP + 18.42	LIBF
BOBBIN			ODI	50	0.5	2	114	6TH TSP + 19.20	LTSF
BOBBIN			ODI	37	9.39	- 2	127	6TH TEP + 26.44	LISF
BOREIN			ODI	53	1.06	- 1	111	ETE TEP + 26.74	LIBY
BORNIN			ODI	26	0.50		7.6	4TM TEP + 27.81	LIBF
BORBIN			ODI	31	0.		6.40	CON TER + 2.30	1.25F
BOBBIE			ODI	39			366	TR TRF + 9.1/	7.7787
BORSIE	83	70	ODI	39	0.32	91.		L TEP + 19.86	FL
BORBIE	0.5	7.0	ODI	30	0.36	1	129	4TB INP + 10.01	FL.
BOBBIN			CDI	33	0.30	1	126	4TE TEP + 16.83	FL
BOBBIN	83		ODI	32	0.51	1	132	4TE TSP + 9.43	FL
BOBBIE	8.4		MOI		0.29			13TE TEP- 0.22	FL
BORBIE	84	7	CDI	21	0.51		136	UTSF + 5.15	FL
BORRIN	8.4	16	ADS		2.31			11TR TEP+ 26.75	P'L
BOBBIN	8.6		MOI		0.29			5TH TSF + 11.70	FL
BOMBIN	64	64	ODI					4TE TEP + 20.38	W.L.
BOREIN			ODI					4TM TSP + 20.84	FL
BORBIN	400		ODI					4TE TEP + 22.59	FL
BORBIN	8.4	6.5	ODI					3RD TSP + 14.95 3RD TSP + 33.34	FL
BORBIE			ODI					4TE TEP + 10.44	FL.
BOREIN			ODI					4TE TEP + 13.13	FL
BORBIN	84	6.9	ODI					4TE TSP + 6.61	FL
BORDIN	-	7.5	ODI					4TE TEP + 9.25	FL
BORBIN			ODI					4TH TEF + 9.85	FL
BORBIN			ODI	20				4TE TSP + 12.05	FL
BOBBIN			ODI					STE TEP + 1.47	FL
BOBBIE			ODI	23	0.59	2	135	STE TEP + 1.83	FI.

QUERY: DEFECT IMDICATIONS 20-100% TW. MQI, ADS. 4 OBS

							-		and the same of th
TEST	ROW	COL	IMD	*TW	VOLTS	CER	DEG	LOCATION 4TH TSP + 17.54 4TH TSP + 13.40 4TE TSP + 31.86 4TE TSP + 12.30 2ED TSP + 10.19 3ED TSP + 20.19 3ED TSP + 20.13 3ED TSP + 20.13 3ED TSP + 20.13 3ED TSP + 20.13 3ED TSP + 17.73 4TE TSP + 19.49 4TE TSP + 15.61 4TH TSP + 12.22 4TE TSP + 10.46 4TE TSP + 10.11 4TE TSP + 0.36 4TE TSP + 10.11 4TE TSP + 10.11 4TE TSP + 10.11 4TE TSP + 13.19 3ED T6P + 17.46 4TE TSP + 13.01 4TE TSP + 13.01 4TE TSP + 13.01 4TE TSP + 13.01 4TE TSP + 12.28 4TE TSP + 10.66 4TE TSP + 10.62 4TE TSP + 10.62 4TE TSP + 38.79 3ED TSP + 38.79 3ED TSP + 38.79 3ED TSP + 38.79 3ED TSP + 38.79 3ED TSP + 36.07 3ED TSP + 36.07 3ED TSP + 38.79 3ED TSP + 36.07 3ED TSP + 36.07 3ED TSP + 12.11 4TE TSP + 12.11 4TE TSP + 12.11 4TE TSP + 12.11 4TE TSP + 12.11 4TE TSP + 12.11 4TE TSP + 12.11 4TE TSP + 12.11 4TE TSP + 10.68 4TE TSP + 10.68	EXTENT
BOBLIN	24	70	ODI	44	0.34	1	115	4TH TEP + 17.54	FL
BOBBIE	8.6	72	ODI	28	0.27	1	135	4TH TEP + 13.40	FL
BORBIN			ODI	25	0.38	1	136	4TE TEF + 32.86	FL
BOBBIN			ODI	26	0.81		137	2MD 485 + 10.30	FL.
BOBBIN	6.5		ODI	2.4	0.52	1	135	3ED TEP + 36.94	FL
BOBEIN	8.5		COL	65	0.31	1	100	3ED TSF + 13.90	FL
BORBIE			ODI	34	0.71	1	130	3RD TEF + 35.71	FL
BOBBIN			ODI	29	0.47	1	135	3RD TEF + 21.22	FL
BORBIN			ODI	35	0.64	1	1.29	3ED TEF + 20.13	FL
BOBRIN			CDI	2.9	0.83	1	135	38D TEF + 17.73	FL.
BORBIE			ODI	60	0.75	*	138	4TE TEP + 15.81	FL.
BOREIN			ODI	33	0.54	1	131	4TH TSP + 12.22	FL
BORRIN	2.5	67	ODI	38	0.55	1	1.27	4TE TEP + 11.36	FL
BORRIN		130.0	ODI	23	0.74	1	138	4TE TEP + 10.94	FL
BORBIN			COI	27	0.58	1	135	6TE TEF + 8.72	FL
BOBBIN			ODI	5.8	0.45	1	108	4TE TEP + 10.11	Fac.
BORRIE		-	ODI	32	0.23	Pl	118	4 TE TEF + 0.34	FL.
BORBIN	8.5	6.6	CODI	51	0.64		111	4TE TED 0 7 95	FL
BORBIN	**		WG Y	3.6	0.53	1	123	13TH TEP+ 0.24	FL.
BORRIN	0.6	63	ODI	3.8	0.42	1	123	4TE TEP + 17.46	FL
BORRIN	8.6	65	COI	60	0.37	1	1.05	4TE TEP + 13.19	FL
BORRIE	-	-	COI	27	0.38	1	132	3ED TEP + 19.73	FL
BORBIN	86	66	ODI	38	0.48	1	126	4TE TEP + 14.31	FL
BORBIN			ODI	26	0.22	1	135	4TM TEP + 13.01	PL.
BORBIN			ODI	3.8	0.27	7	120	4IN 188 + 11.00	FT.
BORRIN			COL	4.0	0.74	P 1	105	4TE TEP - 0.42	FL
BORRIN	8.6	67	ODI	25	0.65	1	136	3ED TEP + 38.74	FL
BOBBIN			ODI	39	0.62	1	125	4TE TEP + 10.82	FL
BORBIN			COI	61	0.39	1	104	4TE TEP + 11.58	FL
BOBBIN			ODI	24	0.40	1	135	4TH TEP + 7.16	FL .
BOREIN			ODI	21	0.77	1	136	3ED TEF + 36.79	FL.
BOERIN			COL	4.6	0.39	1	116	3ED TEP + 14.07	FL.
BORRIN	86	62	ODI	3.0	0.89	p 1	112	4TE TEP - 0.54	FL
BORBIE	9.0		ODI	22	0.74	1	138	4TE TEP + 11.73	FL
BORRIN			CDI	66	0.76	1	119	4TE TEP + 11.73 4TE TEP + 11.11 4TE TEP + 10.68 4TE TEP + 10.14 4TE TEP + 9.15 4TE TEP + 8.66 4TE TEP + 8.04 4TE TEP + 11.30 4TE TEP + 7.19 LTEF + 13.95 4TE TEP + 33.19 UTEF + 6.73	FL
BOBBIN			ODI	32	0.51	1	131	4TE TEP + 10.68	FL
BOREIX			ODI	4.3	0.89	1	122	4TE TEP + 10.14	FL.
ROBBIN			ODI	4.8	1.66		117	4TW TED 4 8.66	FL
BORBIE			CODI	36	0.52	î	128	4TE TEP + 8.04	FL
BORRIN	2.6	69	ODI	36	0.37	1	128	4TH TEP + 11.30	FL.
BORRIN		-	MOI		0.29	. 1	97	4TE TEP + 7.19	MT
BORRIK	8.6	8.5	ADS		1.15	- 6	79	LTEF + 13.95	FL
MURROW	8.6	110	ODI	3.0	0.28	1	121	4TE TEP + 33.19	FL ST
Control of the Contro	100.1				2.16			UTSF + 6.73	FL
BOBBIE	87 87		ADE					4TH TEP + 16.53	PL.
BORBIN	87		ODI		-			4TE TEP + 16.05	FL
BORBIN	87		ODI					4TH TEP + 13.73	FL.
BORBIE			COL		0.78	1	134	6TE TEP + 11.67	FL
BORRIE			ODI				124	4TE TEP + 11.26	FL
BORBIN.			ODI		-0.47			4TH TEP + 12.68	FL
BORRIN			ODI					4TE TEP + 12.37	FL
BORBIN	87		MOI		0.46			4TE TEP + 15.00	FL
BORBIN		2.0	MÖI		0.43			4TH TEP + 15.55	FL
BORBIN	2.2	5	MOI		0.32	1	124	STE TEP + 12.29	FL
BORBIE	8.8		ODI					STH TEP + 3.42	FL
BORRIE	8.8		ODI					4TE TEP + 13.85	FL
BOBBIE	8.0		MOI		0.35			9 4TE TEP + 15.43 9 4TE TEP + 14.77	FL
BORBIE	8.8	0.0	ODI					4TH TEP + 14.20	FL
BORRIN			ODI					4TE TEP + 12.78	FL
BOBBIE			MOI		0.33	3		3 4TE TEP + 11.76	FL
BORBIN	6.6	61	OD1	2.5	0.3	3 3	1 13	3 6TE TEF + 14.21	FL

QUERY: DEFECT INDICATIONS 20-100% TW. MQI, ADS. 6 OBS

TEST	ROW	cer I	ED NIW	VOLTS CE	M DEG	LOCATION 1STE TEP+ 33.08 3RD TEP + 36.63 4TH TEP + 11.98 4TE TEP + 0.54 3RD TEP - 0.64 5TE TEP + 10.27 5TE TEP + 10.04 5TE TEP + 10.04 5TE TEP + 11.33 LTEF	EXTENT
						1899 900 13 08	PT.
BOBBIE	8.8	126 0	DI 24	0.74	1 127	3RD TEP + 36.63	FL.
BOBBIK	5.9	65 U	07 27	0.21	1 99	4TH TEP + 11.98	FL
BOBBIN	6.5	E7 KY	DI 29	0.38	1 130	4TE TEP + \$.06	FL
BORRIN	91	1 0	DI 61	0.43 P	1 99	13TH TEP- 0.54	FL
BORBIE	9.5	79 C	DI 54	0.66 P	1 104	3RD TSP - 0.64	FL
BOBBIN	96	24 C	DI 30	0.35	1 133	STE TEP + 10.27	FL
BORBIN	98	24 C	DI 30	0.38	1 130	STE TEF + 10.04	NA.
BOREIN	9.8	41 C	DI 75	0.41	1 120	STE TEP + 11.33	FL
BOBBIN	100	19 0	DI 42	0.33	6 93	LTSF + 8.56TO+ 18.12	FL
BOBBIE	100	15 0	DI 35	0.25	1 128	STE TEP + 12.75	FL
BORBIN	102	22 0	DI 56	0.25	1 109	STE TEP + 12.29	FL
BORBIN	102	38 0	DI 31	0.62	1 131	STE TEP + 3.44	FL
BOBBIN	102	40 0	DI 23	0.23	1 137	STE TSP + 2.71	If he was
BOEBIN	104	17 0	DI 31	0.43	1 129	5TE TEP + 16.10	FT.
BORRIN	105	16 0	DI 33	0.35	1 128	sew eep + 14.10	FL
BORBIE		0	DI 37	0.37	1 104	13TW TEP- 0.51	FL
BOESIN	106	15 0	mr 26	0.29	1 133	STE TEP + 14.78	FL
ROBBIN	107	1 1	DI	0.30	1 70	10TE TEP+ 16.94	FL.
BORRIN	108	36 0	DI 26	0.28	1 138	STE TEP + 6.29	FL
BOBBIN	108	52 0	DI 69	0.61	1 52	LTSF + 20.73	WT.
BORBIE	109	1 0	DI 25	1.06	1 135	STE TEP + 31.31	WT.
BORBIE	109	104 0	DI 24	0.24	1 131	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FL
BORBIN	110	97 0	DI 25	0.30	1 123	ETE TEP - 0.27	FL.
BOREIN	222	2 0	MIT 24	2.23	1 136	STE TEP + 1.86	FL
BOSEIN	112	3.0	IDI 26	0.40 ₽	1 121	9TE TEP + 0.27	FL
BORKIN	112	49 0	MDI 22	1.36	1 135	14TE TEP+ 18.50	FL
BOBBIE	113	2. 0	DI 25	0.69	1 13	5 15TH TEP+ 16.86	FL.
BOBBIN	113	116 8	TQT	3.23	1 14	5 15TH TEP+ 19.54	FL.
BORBIN	114	97 0	MDI 38	0.23 P	1 11	0 7TE TEF - 0.98	FL
BORBIN	114	99 3	MQ Z	2.4	6 8	8 10TH TSP+ 11.65	FL
BOSEIR	115	49 1	LDS	10.67	6 8	1 LTEF + 26.03TO+ 32.29	FL
BURBIE	116	113 (DDI 24	3.38	1 13	3 15TH TEP+ 19.77	FL.
BOBBIE	120	21 (35	0.52	1 12	6 STE TEP + 11.31	FL
BOKEIN	120	94 1	RÖI	0.24	1 12	1 5TH TEP + 12.12	E Li
BORRIN	121	62 (MDI 35	0.42	1 12	8 5TE TBP + 9.44	FL
BORRIN	121	64	DDI 3:	4 49	E 8	3 LTEF + 22.39TO+ 30.27	FL
BORBIR	222	76	NET 31	0.24	1 12	6 4TE TEP + 30.69	FL
BOBBIN	123	13 (ODI 2	0.27	1 13	2 6TE TEP + 26.33	FL
BOBBIN			ODI 2	0.20	1 13	2 STE TEP + 19.08	FL.
BOBBIE	123	73 1	I ÇN	0.22	1 11	6 4TE TEP + 33.53	Fig.
BOBBIN	123	80	ODI 2	0.44	1 13	8 STR TEF + 23.32	FL.
BOREIN	124	14	ODI Z	0.40	1 12	6 STR TEP + 13.06	FL.
ROBBIE	124	78	MOT 2	0.36	1 10	7 STE TEP + 12.88	FL
BORBIN	125	17	ODI 2	0.58	1 13	1 STE TEP + 12.50	FL
BORBIN	125	69	NGI	0.21	1 12	5 STE TEP + 6.59	FL.
BORBIN	127	3	ADS	2.20		e err res + waren	FL
BORBIE	127			2.84	6 8	S 3RD TEP + 6.99 S 10TH TEP+ 0.48	FL
BORBIN	125			8. 0.25	3 33	9 STE TEP + 11.22	FL
BOBBIE	125		ODI 3	7 0.52	1 12	4 STE TEP + 11.64	FL
BORRIN	130		ODI 3	4 0.78 1	1 11	9 10TE TEP+ 0.48	FL
BORBIN			MÖI	0.60 8	1 1	16 16TE TEP- 0.84	FL
BOBBIN	131	1 29	ODI 5	4 0.39	1 10	08 STE TSP + 11.28	PL PT
BORRIN	133		ODI 2	8 0.38	1 11	3 STH TEP + 10.80	FL
BORBIN	13:		ODI 2	4 0 48	1 11	35 4TE TEP + 12.38 20 5TE TEP + 8.84	FL
BORRIE	13:		DDI 4	0.25	1 20	04 STE TEP + 10.34	FL.
BORBIN	13			4 0.57 1	P 1 1	06 STE TEP + 0.19	FL.
BORBIN	1.3			0.83 1	P 1 1	06 10TH TEP+ 0.54	FL
BORBIN	13	E 67	MO 7	0.21 1	P 1 1	13 STR TSP + 0.12	FL
BOBBIN	14	1 68	ODI 3	8 0.69	P 1 1	11 STH TSP - 0.82	FL FL
BORBIN	16	6 56	ODI 3	0.88	1 1	25 7TE TSP + 8.90 08 LTPF + 2.75	FL
BORBIE	14	0 20	w.A.r	0.77			

QUERY: DEFECT IMDICATIONS 20-100% TW. MQI. ADS. & OBS

TEST	ROW	COL	THE	STW	VOLTE	C	RZ	DEG	LOCA	MOIT		EXTENT
			***	W W W		90.0	- 45					
BOBBIN	149	33	ODI	21	0.39	P	1	123	14TH	TEF+	0.47	FL.
BOBBIN	150		COI	61					LTPF		6.74	FL
BOBBIN	150		MQI		1.00	p	1	9.9	107%	TEF+	0.65	FL
BOBBIN	150		BPOI		0.35		1	74	1372	TEP+	1.20	FL
BOBBIN	150	24	api	23	1.49	P	1	122	14TH	TEP+	0.57	FL
BOBBIN	150	26	MOI		0.63	P	1	92	LOTE	TEP+	0.63	FL
BOBBIE	151	-	ODI	4.5	0.64	p	1	105	LITE	TEP-	0.11	FL.
BOBBIN		-17	ODI	23	0.79	P	1	122	13TH	TEP+	0.55	FL
BOBBIE	151	14	MÖI	-0.	1.12	p	1	63	lote	TEP+	0.63	FL.

TOTAL TUBES FOUND = 317
TOTAL MEDICATIONS FOUND = 569
TOTAL TUBES IN MEPUT FILE = 15457

In addition, the following tubes with dents were plugged.

Row		Col	umn
Row 104			1
105		1	22
146			51
6			50

SG 2-A PLUGGED TUBES

PLANT: DAYIS BESSE UNIT 1

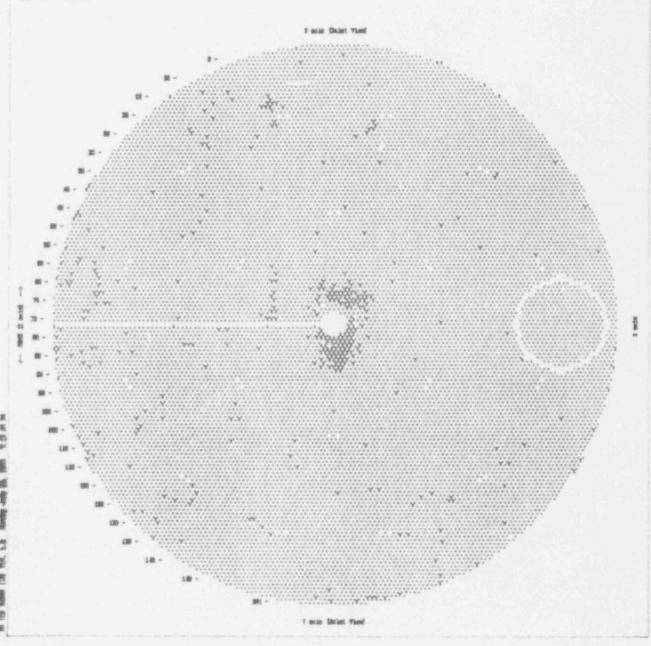
GENERATOR A

I - SE 2-A PLUREED THEES COSE

I - SE 2-4 PLUGBED THEES (19)

TOTAL TUBES : 15457 SUPPORT ROOS () : 42

TOTAL TUBES ASSIGNED: 375



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

	(Name and Address of Owner)
Plant	Davis-Besse Nuclear Power Station, Oak Harbor, Ohio 43449
	(Name and Address of Plant)
Plant I	nit #1 4. Owner Certificate of Authorization (if required) N/A
LIMIT C	The second secon
	ercial Service Date 11/21/77 6. National Board Number for Unit N/A

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Steam Generator 1-1	Bahcack & Wilcox	620-0014- 55-11	N/A	158
Steam Generator 1-2	Babcock & Wilcox	620-0014- 55-12	N/A	159
			DESCRIPTION OF THE PROPERTY OF	
				and the same of th

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

FORM NIS-1 (back)

8. Examination Dates Eab

- Gradial 32 (991) Way 1993 to Apr 1993 9. Inspection Interval from Sept 1990 to Sept 2000 Dates Febr 1993 to Apr 1993 9. Inspection Interval from Sept 1990 work required 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Sec 1993 Inservice Inspection Report
- 11. Abstract of Conditions Noted Sec 1993 Inservice Inspection Report
- 12. Abstract of Corrective Measures Recommended and Taken Sec 1993 Inservice Inspection Report

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI. Date 6-9 19 93 Signed Toledo Edison 6 By Small 11- Owner
Certificate of Authorization No. (if applicable)Expiration Date
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Ohio and employed by H.S.B.I. & I. Co of Hartford, CT have inspected the components described in this Owners' Data Report during the period Feb. 1993 to Apr 1993, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date 6-16 1993
Perlet E. Caak Commissions NB10982 (ANI) Oke Comm Inspector's Signature National Board, State, Province and No.

Nondestructive Examinations

The Nondestructive Examinations were completed by Toledo Edison and B&W Nuclear Technologies personnel from February 1993 to April 1993 during the 8th Refueling Outage for the Davis Besse Nuclear Power Station Unit #1. These examinations complete the examinations required to be performed in the first period of the 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 examination data for the ASME Class 1 and 2 components. All examination results were acceptable. An entry in the PCAQ Number column identifies the Potential Condition Adverse to Quality Report used to evaluate and disposition indications.

Detailed examination results are contained the 8th Refueling Outage Inservice Inspection Report which is available for review at the Davis Besse site.

xam Category ode Item	Mark Number	Component Description N	DE Method	Examination Acceptable	Exam Date	Comments
Code Class 1	Mark munuer	***************************************	********			
B-A	PRESSURE RETAINING WELDS IN REACTOR VESSEL					
B01.030	SHELL-TO-FLANGE WELD					
	TANK TALL A MANY A P.	SHELL TO FLANGE WELD MK 169 TO MK 7	UT	Yes	04-05-93	
801.040	HEAD-TO-FLANGE WELD					
	7500 750 8 500 7	CLOSURE HEAD TO FLANGE CIRCUMFERENTIAL WELD MK 24 TO MK 22	UT MT	Yes Yes	03-26-93	Relief Request RR-1 is applicable.
9-9	PRESSURE RETAINING WELDS IN VESSELS OTHER THAN RE	ACTOR VESSELS				
802.031	STEAM GENERATORS (PRIMARY SIDE)-CIRCUMFERENTIA	AL HEAD WELDS				
	RC-SG-1-1-WG-172	TRANSITION RING TO LOWER HEAD WELD MK 9 TO MK 7	UT	Yes	04-06-93	
B-D	FULL PENETRATION WELDS OF NOZZLES IN VESSELS (I	SPECTION PROGRAM 5)]			
803.130	STEAM GENERATORS (PRIMARY SIDE)-NOZZLE-TO-VESS	SEL WELDS				
	RC-SG-1-1-WG-25	36 IN. INLET MOZZLE TO UPPER HEAD WELD MK 70 TO MK 8	UT	Yes	03-27-93	
	RC-SG-1-1-WG-50-Z/Y	28 IN. Y/Z AXIS OUTLET NOZZLE TO LOWER HEAD WELD MK 65 TO MK 7	UT	Yes	04-06-93	
803.140	STEAM GENERATORS (PRIMARY SIDE)-NOZZLE INSIDE	RADIUS SECTION				
	RC-SG-1-1-WG-25-IR	36 IN. INLET NOZZLE INSIDE RADIUS MK 70	UT	Yes	03-27-93	
	RC-SG-1-1-WG-50-Z/Y-IR	28 IM. Y/Z AXIS OUTLET NOZZLE INSIDE RADIUS MK 65	ut	Yes	04-06-93	
B-t	PRESSURE RETAINING DISSIMILAR METAL WELDS					
805.130	PIPING-DISSIMILAR METAL BUTT WELDS >= 4 INCHE	S NOMINAL PIPE SIZE				
	RC-MK-A-67-1-FW105A	28 IN. ELBOW TO RC PUMP INLET NOZZLE WELD MK 62 TO P36-3	UT	Yes	03-20-93	

cn.

06/08/93 08:24:31

Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number Exam Date	Comments
805.130		WELDS >= 4 INCHES NOMINAL PIPE SIZE				
	RC-MK-8-44-1-SW698	28 IN. PIPE TO ELBOW WELD MK 49 TO MK 39	UT	Yes Yes	03-19-93	
MOE 140	RC-MK-8-59-1-SW1438	28 IN. PIPE TO ELBOW WELD MK 49 TO MK 39 WELDS * 4 INCHES NOMINAL PIPE SIZE	UT PT	Yes Yes	03-19-93	
805.140	RC-40-CCA-18-1-FWZ	2.5 IN. BRANCH CONNECTION TO ELBO	OM WELD PT	Yes	03-13-93	
	RC-40-CCA-18-3-FW9	2.5 IN. BRANCH CONNECTION TO ELBO MK 87	ON WELD PT	Yes	03-13-93	
8-G-1 P	PRESSURE RETAINING BOLTING GREATE	R THAN 2 INCHES IN DIAMETER				
806.010	REACTOR VESSEL-CLOSURE HEAD NU	ors				
	RC-RPV-NUT-901	CLOSURE HEAD NUT (HOLE NO. 1) MK 26	MT	Yes	03-21-93	
	RC-RPV-NUT-00Z	CLOSURE HEAD NUT (NOLE NO. 2) MK 26	нт	Yes	03-21-93	
	RC-RPV-NUT-003	CLOSURE HEAD NUT (HOLE NO. 3) MK 26	мт	Yes	03-21-93	
	RC-RPV-NUT-004	CLOSURE HEAD NUT (HOLE NO. 4) MK 26	MT	Yes	03-21-93	
	RC-RPV-NUT-005	CLOSURE HEAD NUT (HOLE NO. 5) MK 26	MT	Yes	03-21-93	
	RC-RPV-NUT-006	CLOSURE HEAD NUT (HOLE NO. 6) MK 26	МТ	Yes	03-21-93	
	RC-RPV-NUT-007	CLOSURE HEAD NUT (HOLE NO. 7) MK 26	MT	Yes	03-21-93	

Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number Exam Date	Comments
	REACTOR VESSEL-CLOSURE HEAD HUTS		22822202202			
	RC-RPV-NUT-008	CLOSURE HEAD NUT (HOLE NO. 8) MK 26	МТ	Yes	03-21-93	
	RC-RPV-MUT-009	CLOSURE HEAD NUT (HOLE NO. 9) MK 26	MT	Yes	03-21-93	
	RC-RPV-NUT-010	CLOSURE HEAD NUT (HOLE NO. 10) MK 26	мт	Yes	03-21-93	
	RC-RPV-MUT-011	CLOSURE HEAD NUT (HOLE NO. 11) MK 26	MT	Yes	03-21-93	
	RC-RPV-NUT-012	CLOSURE HEAD NUT (HOLE NO. 12) MK 26	MT	Yes	03-21-93	
	RC-RPV-NUT-013	CLOSURE HEAD NUT (HOLE NO. 13) MK 26	MT	Yes	03-21-93	
	RC-RPV-NUT-014	CLOSURE HEAD NUT (HOLE NO. 14) MK 26	MT	Yes	03-21-93	
	RC-RPV-NUT-015	CLOSURE HEAD NUT (HOLE NO. 15) MX 26	MT	Yes	03-21-93	
	RC-RPV-NUT-016	CLOSURE HEAD NUT (HOLE NO. 16) MK 26	МТ	Yes	03-21-93	
	RC-RPV-NUT-017	CLOSURE HEAD NUT (HOLE NO. 17) MK 26	MY	Yes	03-21-93	
	RC-RPV-MUT-018	CLOSURE HEAD NUT (HOLE NO. 18) MK 26	нт	Yes	03-21-93	មា មា (Q
						0

Exam Category			and done is	Examination	PCAQ	Comments
	Mark Number	Component Description	NDE Method	Acceptable	Number Exam Date	EURRES ILS
806.010	REACTOR VESSEL-CLOSURE HEAD NUTS					
	RC-RPV-NUT-020	CLOSURE HEAD NUT (HOLE NO. 20) MK 26	MT	Yes	03-21-93	
	RC-RPV-NUT-065	CLOSURE HEAD NUT (HOLE NO. 19) MK 26	MT	Yes	03-21-93	
806.030	REACTOR VESSEL-CLOSURE STUDS, WHEN REMOVED					
	RC-RPV-STUD-001	CLOSURE HEAD STUD (HOLE NO. 1) MK 25	UT MT	Yes	03-23-93	
	RC-RPV-STUD-002	CLOSURE HEAD STUD (HOLE NO. 2) MK 25	UT MT	Yes Yes	03-23-93	
	RC-RPV-STUD-003	CLOSURE HEAD STUD (HOLE NO. 3) MK 25	UT MT	Yes Yes	03-23-93	
	RC-RPV-STUD-004	CLOSURE HEAD STUD (HOLE NO. 4) MK 25	UT MT	Yes Yes	03-23-93	
	RC-RPV-STUD-005	CLOSURE HEAD STUD (HOLE NO. 5) MK 25	UT MT	Yes Yes	03-23-93	
	RC-RPV-STUD-006	CLOSURE HEAD STUD (HOLE NO. 6) MK 25	UT MT	Yes Yes	03-23-93	
	RC-RPV-STUD-007	CLOSURE HEAD STUD (HOLE NO. 7) MK 25	TU MT	Yes Yes	03-23-93	
	RC-RPV-STUD-008	CLOSURE HEAD STUD (HOLE NO. 8) MK 25	UT MT	Yes Yes	03-23-93	
	RC-RPV-STUD-009	CLOSURE HEAD STUD (HOLE NO. 9) MK 25	UT MT	Yes Yes	03-23-93	9

Davis Besse Nuclear Power Station Unit #1 Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 8R Refueling Outage

06/08/93 08:24:38

Exam Category Code Item	Mark Number	Component Description		NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
806.030	REACTOR VESSEL-CLOSURE STUDS, WHEN REMOVED							
	RC-RPV-STUD-010	CLOSURE HEAD STUD (HOLE NO. MK 25	10)	MT	Yes		03-23-93	
	RC-RPV-STUD-011	CLOSURE HEAD STUD (HOLE NO. MK 25	11)	UT MT	Yes Yes		03-22-93	
	RC-RPV-STUD-01Z	CLOSURE HEAD STUD (HOLE NO. MK 25	12)	UT HT	Yes Yes		03-22-93	
	RC-RPV-STUD-013	CLOSURE HEAD STUD (HOLE NO. MK 25	13)	UT MT	Yes Yes		03-22-93	
	RC-RPV-STUD-014	CLOSURE HEAD STUD (HOLE NO. MK 25	14)	UT MT	Yes Yes		03-22-93	
	RC-RPV-STUD-015	CLOSURE HEAD STUD (HOLE NO. MK 25	15)	UT MT	Yes Yes		03-22-93	
	RC-RPV-STUD-016	CLOSURE HEAD STUD (HOLE NO. MK 25	16)	UT MT	Yes Yes		03-22-93	
	RC-RPV-STUD-017	CLOSURE HEAD STUD (HOLE NO. MK 25	17)	UT MT	Yes Yes		03-22-93	
	RC-RPV-STUD-018	CLOSURE HEAD STUD (HOLE NO. MK 25	18)	UT MT	Yes Yes		03-22-93	
	RC-RPV-STUD-020	CLOSURE HEAD STUD (HOLE NO. MK 25	20)	UT MT	Yes Yes		03-22-93	
	RC-RPV-STUD-065	CLOSURE HEAD STUD (HOLE NO. MK 25	. 19)	UT MT	Yes Yes		03-22-93	ра а да

Davis Besse Nuclear Power Station Unit #1 Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations BR Refueling Outage

06/08/93 08:24:40

Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number Exam Date	Conments
806.640	REACTOR VESSEL-THREADS IN FLANGE	· · · · · · · · · · · · · · · · · · ·				
	RC-RPV-FLNG-THRD	VESSEL FLANGE THREADS MK 7 (QTY. 60)	ut	Yes	04-05-93	
806.050	REACTOR VESSEL-CLOSURE WASHERS, BUSHINGS					
	RC-RPV-WASHERS-001	CLOSURE HEAD WASHERS (HOLE NO. 1) MK 14/MK 27	VT-1	Yes	03-19-93	
	RC-RPV-WASHERS-002	CLOSURE HEAD WASHERS (HOLE NO. 2) MK 14/MK 27	VT-1	Yes	03-19-93	
	RC-RPV-WASHERS-003	CLOSURE HEAD WASHERS (HOLE NO. 3) MK 14/MK 27	VT-1	Yes	03-19-93	
	RC-RPV-WASHERS-004	CLOSURE HEAD WASHERS (HOLE NO. 4) MK 14/MK 27	VT-1	Yes	03-19-93	
	RC-RPV-WASHERS-005	CLOSURE HEAD WASHERS (HOLE NO. 5) MK 14/MK 27	VT - 1	Yes	03-21-93	
	RE-RPV-WASHERS-006	CLOSURE HEAD WASHERS (HOLE NO. 6) MK 14/MK 27	VT-1	Yes	03-19-93	
	RC-RPV-WASHERS-007	CLOSURE HEAD WASHERS (HOLE NO. 7) MK 14/MK 27	VT-1	Yes	03-19-93	
	RC-RPV-WASHERS-008	CLOSURE HEAD WASHERS (HOLE NO. 8) MK 14/MK 27	VT-1	Yes	03-19-93	
	RC-RPV-WASHERS-009	CLOSURE HEAD WASHERS (HOLE NO. 9) MK 14/MK 27	VT-1	Yes	03-19-93	
	RC-RPV-WASHERS-010	CLOSURE HEAD WASHERS (HOLE NO. 10) MK 14/MK 27	VT-1	Yes	03-19-93	Page

03-08-93

Davis Besse Nuclear Power Station Unit #1 06/08/93 Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 08:24:43 8R Refueling Outage

RC-RCP-1-1-1-STUD-10

Exam Category Code Item	Mark Number		Component Descrip	ition	NDE Method	Examination Acceptable	PCAQ Number Exam Date	Comments
806,050	REACTOR VESSEL-CLOSURE WAS	HERS, BUSHINGS	**********	2222222222222				
	RC-RPV-WASHERS-011		CLOSURE HEAD WASHERS MK 14/MK 27	(HOLE MO. 11)	VT-1	Yes	03-21-93	
	RC-RPV-WASHERS-012		CLOSURE HEAD WASHERS MK 14/MK 27	(HOLE NO. 12)	VT-1	Yes	03-21-93	
	RC-RPV-WASHERS-013		CLOSURE HEAD WASHERS MK 14/MK 27	(HOLE NO. 13)	VT-1	Yes	03-21-93	
	RC-RPV-WASHERS-014		CLOSURE HEAD WASHERS MK 14/MK 27	(HOLE NO. 14)	VT-1	Yes	03-21-93	
	RC-RPV-WASHERS-015		CLOSURE HEAD WASHERS MK 14/MK 27	(HOLE NO. 15)	VT-1	Yes	03-21-93	
	RC-RPV-WASHERS-016		CLOSURE HEAD WASHERS MK 14/MK 27	(HOLE NO. 16)	VT-1	Yes	03-21-93	
	RC-RPV-WASHERS-017		CLOSURE HEAD WASHERS MK 14/MK 27	(HOLE NO. 17)	VT-1	Yes	03-21-93	
	RC-RPV-WASHERS-018		CLOSURE HEAD WASHERS MK 14/MK 27	(HOLE NO. 18)	VT-1	Yes	03-21-93	
	RC-RPV-WASHERS-020		CLOSURE HEAD WASHERS MK 14/MK 27	(HOLE NO. 20)	VT-1	Yes	03-21-93	
	RC-RPV-WASHERS-065		CLOSURE HEAD WASHERS	S (HOLE NO. 19)	VT-1	Yes	03-21-93	
806.180	PUMPS-BOLTS AND STUDS							D,

4.75 IN. DIA. PUMP COVER TO CASE STUD

HOLE NO. 10

UT

Yes

Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number Exam Date	Comments
806,180	PUMPS-BOLTS AND STUDS					
	RC-RCP-1-1-1-STUD-11	4.75 IN. DIA. PUMP COVER TO CASE STUD HOLE NO. 11	UT	Yes	03-08-93	
	RC-RCP-1-1-1-STU0-12	4.75 IN. DIA. PUMP COVER TO CASE STUD HOLE NO. 12	UT	Yes	03-08-93	
	RC-RCP-1-1-1-STUD-7	4.75 IN. DIA. PUMP COVER TO CASE STUD HOLE NO. 7	UT	Yes	03-08-93	
	RC-RCP-1-1-1-STUD-8	4.75 IN. DIA. PUMP COVER TO CASE STUD HOLE NO. 8	UT	Yes	03-08-93	
	RC-RCP-1-1-1-STUD-9	4.75 IN. DIA. PUMP COVER TO CASE STUD HOLE NO. 9	UŤ	Yes	03-08-93	
806.200	PUMPS-NUTS, BUSHINGS, AND WASHERS RC-RCP-1-1-1-NUTS/WASHERS-10	PUMP COVER TO CASE NUTS/WASHERS	vr-1	Yes	03-08-93	
	RC-RCP-1-1-1-NUTS/WASHERS-11	PUMP COVER TO CASE NUTS/WASHERS	VT-1	Yes	03-08-93	
	RC-RCP-1-1-1-NUTS/WASHERS-12	PUMP COVER TO CASE NUTS/WASHERS	VT-1	Yes	03-08-93	
	RC-RCP-1-1-1-NUTS/WASHERS-7	PUMP COVER TO CASE HUTS/WASHERS	VT-1	Yes	03-08-93	
	RC-RCP-1-1-1-NUTS/WASHERS-8	PUMP COVER TO CASE NUTS/WASHERS	VT-1	Yes	03-08-93	
	RC-RCP-1-1-1-NUTS/WASHERS-9	PUMP COVER TO CASE NUTS/WASHERS	VT-1	Yes	03-08-93	
8-G-2 5	PRESSURE RETAINING BOLTING, 2 INCHES AND LESS	IN DIAMETER				
807,030	STEAM GENERATORS BOLTS, STUDS, AND MUTS					77
	RC-SG-1-1-LPIO-BLTG	12-1 IN. UNC-ZA LOWER PRIMARY INSP. OPENING STUD MK 112M - 12 - 1 IN. NUT MK 110	VT-1	Yes	04/05/93	9

Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number Exam Date	Comments
807.030	STEAM GENERATORS-BOLTS, STUDS, AND NUTS					
	RC-SG-1-1-LPM-BLTG	16-2 IN. UNR-2A LOWER PRIMARY MANWAY STUDS MK-111M 32 - 2 IN. NUTS H	VT-1	Yes	04/05/93	
B07.050	PIPING-BOLTS, STUDS, AND NUTS					
	RC-HEAD VENT-FLANGE BOLTING-3	8 - 1.125 IN. STUDS AND NUTS (FLANGE CONNECTION NO. 3)	VT-1	Yes	04-13-93	
	RC-HEAD VENT-FLANGE BOLTING-4	8 - 1.125 IN. STUDS AND NUTS (FLANGE CONNECTION NO. 4)	VT-1	Yes	04-09-93	PRESERVICE EXAMINATION
	RC-HEAD VENT-FLANGE BOLTING-5	12 - 1 IN. STUDS AND NUTS (FLANGE CONNECTION NO. 5)	VT - 1	Yes	04-09-93	PRESERVICE EXAMINATION
807.080	CRD HOUSINGS-BOLTS, STUDS, AND NUTS					
	RC-RPV-CRD-B45-6-MOTUBE-BLTG	CRD MOTOR TUBE ASSEMBLY BOLTING (HOUSING ASSEMBLY 845-6)	VI-1	Yes	03-25-93	PRESERVICE EXAMINATION
B-H	INTEGRAL ATTACHMENTS FOR VESSELS					
808.020	PRESSURIZER-INTEGRALLY WELDED ATTACHMENTS					
	RC-PZR-WP-118	INTEGRAL ATTACHMENT WELD - SUPPORT MK 126/MK 128 TO MK 3	MT PT	Yes Yes	03-16-93	AREAS NOT ACCEPTABLE FOR MT WERE PT EXAMINED.
B - J	PRESSURE RETAINING WELDS IN PIPING					
809.011	CIRCUMFERENTIAL PIPE WELDS >= 4 IN. NOMINAL	PIPE SIZE				
	CF-338-CCA-6-3-FW29	14 IN. VALVE CF30 TO ELBOW WELD	UT	Yes	03-20-93	
	CF-33B-CCA-6-3-SWA	14 IN. ELBOW TO PIPE WELD	UT PT	Yes Yes	03-20-93	
	DH-33A-CCA-4-1-SWB	12 IN. PIPE TO ELBOW WELD	UT PT	Yes Yes	03-23-93	φ α α
						1.4

03-12-93

Davis Besse Nuclear Power Station Unit #1 06/08/93 Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 08:24:50 BR Refueling Outage

RC-MK-B-67-1-SW1028-LU-2

Exam Category Cade Item	Mark Number	Component Description	NDE Method	Examination Acceptable	Number	Exam Date	Comments
809.011	CIRCUMFERENTIAL PIPE WELDS >= 4 IN. NOMINAL P	IPE SIZE					
	DH-33A-CCA-4-F6A-FW5	12 IN. VALVE DH12 TO PIPE WELD	UT	Yes		03-25-93	
	RC-MK-A-32-1-SW130B	36 IN. ELBOW TO PIPE WELD MK 31 TO MK 23	UT MT	Yes Yes		03-18-93	
		28 IN. ELBOW TO PIPE WELD	UT	Yes		03-12-93	
	RC-MK-B-67-1-SW102B	MK 45 TO MK 67	MT	Yes			
809.012	LONGITUDINAL PIPE WELDS >= 4 IN. NOMINAL PIPE		UT	Yes		03-18-93	
	RC-MK-A-32-1-SW130B-LU-1	36 IN. ELBOW LONGSEAM WELD UPSTREAM - IN. RADIUS MK 31	MT	Yes		03 10 13	
	RC-MK-A-32-1-SW1308-LU-2	36 IN. ELBOW LONGSEAM WELD UPSTREAM - OUT. RADIUS MK 31	UT MT	Yes Yes		03-18-93	
	RC-MK-B-44-1-5: 29B-LD-1	28 IN. ELBOW LONGSEAM WELD DOWNSTREAM-IN, RADIUS MK 39	UT MT	Yes		03-19-93	
	RC-MK-B-44-1-SW69B-LD-2	28 IN. ELBOW LONGSEAM WELD DOWNSTREAM-OUT. RADIUS MK 39	UT MT	Yes Yes		03-19-93	
	RC-MK-8-59-1-SW1438-LD-1	28 IN. ELBOW LONGSEAM WELD DOWNSTREAM-IN. RADIUS MK 39	UT MT	Yes Yes		03-19-93	
	RC-MK-8-59-1-SW1438-LD-2	28 IN. ELBOW LONGSEAM WELD DOWNSTREAM-OUT, RADIUS MK 39	UT MT	Yes Yes		03-19-93	
	RC-MK-B-67-1-SW102B-LU-1	28 IN. ELBOW LONGSEAM WELD UPSTREAM - OUT. RADIUS MK 45	UT MT	Yes Yes		03-12-93	
							'n

28 IN. ELBOW LONGSEAM WELD UPSTREAM -

IN. RADIUS MK 45

UT

MT

Yes

Yes

Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number Exam Date	Comments
809.021	CIRCUMFERENTIAL PIPE WELDS < 4 I	N. NOMINAL PIPE SIZE				
	HP-33C-CCA-2-45-FW33	2.5 IN. VALVE HP51 TO ELBOW WELD	PT	Yes	03-20-93	
	MU-31-CCA-18-4-FW19A	2.5 IN. PIPE TO ELBOW WELD	PT	Yes	03-19-93	
	RC-30-CCA-8-2-FW8C	3 x 2.5 REDUCER TO FLANGE WELD	PT	Yes	03-16-93	
	RC-40-CCA-18-1-SWA	2.5 IN. ELBOW TO TEE WELD	PT	Yes	03-13-93	
	RC-MK-A-135-FW26	2.5 IN. PIPE TO VALVE HV-RC2 WELD MK 135	PT	Yes	03-11-93	
	RC-SK84-02-08-FW5	2.5 IN. PIPE TO ELBOW WELD	PT	Yes	04-10-93	PRESERVICE EXAMINATION
	RC-SK84-02-08-SW1	2.5 IN. FLANGE TO PIPE WELD	PT	Yes	04-04-93	PRESERVICE EXAMINATION
	RC-SK84-02-08-SW2	2.5 IN. PIPE TO ELBOW WELD	PT	Yes	04-04-93	PRESERVICE EXAMINATION
	RC-SK84-02-08-SW3	2.5 IN. ELBOW TO PIPE WELD	PT	Yes	04-04-93	PRESERVICE EXAMINATION
	RC-SK84-02-09-FW6	2.5 IN. ELBOW TO FLANGE WELD	PT	Yes	04-10-93	PRESERVICE EXAMINATION
	RC-SK84-02-09-SW5	2.5 IN. ELBOW TO ELBOW WELD	PT	Yes	04-04-93	PRESERVICE EXAMINATION
809,040	SOCKET WELDS RC-FSK-M-CCA-7-1-FW3	1.5 IN. PIPE TO VALVE RC51 WELD	PT	Yes	03-16-93	P 20 00

Exam Category Code Item	Mark Number	Component Description NO		Examination Acceptable	PCAQ Number	Exam Date	Comments
809.040	SOCKET WELDS						
	RC-FSK-M-CCA-7-1-FW39	1.5 IN. ELBOW TO PIPE WELD	PT	Yes		03-11-93	
B-K-1	INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VA	LVES					
810.010	PIPING-INTEGRALLY L'ELDED ATTACHMENTS						
	CF-338-CCA-6-H5-AW	HYDRAULIC SNUBBER SUPPORT ATTACHMENT WELD	PT	Yes		03-24-93	
8 - N - 1	INTERIOR OF REACTOR VESSEL						
813.010	REACTOR VESSEL-VESSEL INTERIOR						
	RC-RPV-INTERIOR	VESSEL INTERIOR	VT-3	Yes		03-23-93	
B-0	PRESSURE RETAINING WELDS IN CONTROL ROD HOUSIN	igs					
814.010	REACTOR VESSEL-WELDS IN CONTROL ROD DRIVE	OUSINGS					
	RC-RPV-CRD-W60-B45-6	MOTOR TUBE EXTENSION TO MOTOR TUBE CENTER SECTION (HOUSING ASSEMBLY 845-6)	PT	Yes		03-24-93	PRESERVICE EXAMINATION
	RC-RPV-CRD-W61-B45-6	MOSOR TUBE CAP TO MOTOR TUBE EXTENSION (HOUSING ASSEMBLY 845-6)	PT	Yes		03-24-93	PRESERVICE EXAMINATION
	RC-RPV-CRD-W73-B45-6	MOTOR TUBE CENTER SECTION TO CRDM BASE (HOUSING ASSEMBLY 845-6)	PT	Yes		03-24-93	PRESERVICE EXAMINATION

Davis Besse Nuclear Power Station Unit #1 Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 8R Refueling Outage

06/08/93

Exam Category Code Item	Mark Number	Component Description	NDE Method	Acceptable	Number	Number Exam Date Comments	Comments
Code Class 2	Code Class 2	등 등록 구르 등로 등로 등으로 되었다. 기계 등록 기계 등을 보는 기계 등을 보는 것이 되었다. 기계 등록 기계 등을 보는 것이 되었다.					
8-3	PRESSURE RETAINING MOZZLE WELDS IN VESSELS						
C02.031	REINFORCING PLATE WELDS TO NOZZLE AND VESSEL	> 1/2 IN. NOMINAL THICKNESS					
	DH-COOLER-1-1-WELD J	OUTLET MOZZLE REINFORCING PLATE TO SHELL WELD	14	Yes		03-02-93	
3-3	INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS,	AND VALVES					
010.200	PRESSURE VESSELS-INTEGRALLY WELDED ATTACHMENTS	55					
	SP-56-1-2-SP-5	FEEDWATER HEADER SUPPORT PLATE TO SHELL WELD MK 152 TO MK 2	¥	se .		\$6-60-90	
	SP-SG-1-2-SP-3	FEEDWATER HEADER SUPPORT PLATE TO SHELL UELD MK 152 TO MK 2	, K	× 9		26-60-93	
C03.020	PIPING-INTEGRALLY WELDED ATTACHMENTS						
	FW-7-E88-3-2-SR23-AW	18 IN. PIPE SUPPORT ATTACHMENT WELD	E	Yes		03-18-93	
	FW-7-E88-3-3-5R260-AW	14 IM, PIPE SUPPORT ATTACHMENT WELD	¥	se x		03-18-93	
	FW-7-E88-3-7-SR24C-AW	MAIN FW HYDRAULIC SNUBBER SUPPORT ATTACHMENT WELD	¥	Yes		03-18-93	
	FW-7-E88-3-8-SR24D-AW	FM LINE, NYDRAULIC SMUBBER SUPPORT	M.	Yes		03-18-93	
	FW-7-E88-3-5G2-5P2-AW	14 IN. PIPE SUPPORT ATTACHMENT WELD MK 130 TO MK 122	K	¥ es		04-09-93	
	FW-7-E88-3-562-SP3-AW	14 IN. PIPE SUPPORT ATTACHMENT WELD MK 130 TO MK 123	¥	Yes		04-09-93	
	HP-33C-CC8-2-H8-AW	4 IN. PIPE SUPPORT ATTACHMENT WELD	14	6) 6) 30-		03-07-93	

Mark Number	Component Description	NDE Method	Examination Acceptable			Comments
PIPING-INTEGRALLY WELDED ATTACHMENTS		************	***********			
MS-3A-EBB-1-1-SR1-AW	26 IN. PIPE SUPPORT ATTACHMENT WELD	MT	Yes		03-29-93	
MS-3A-EBB-1-28-C282-SEC-S1-AW	36 IN. PIPE SUPPORT ATTACHMENT WELD	MT	Yes		03-09-93	
MS-3A-EBB-1-28-C282-SEC-S2-AW	36 IN. PIPE SUPPORT ATTACHMENT WELD	нт	Yes		03-09-93	
MS-3A-EBB-1-3-SR6-AW	26 IN. PIPE SUPPORT ATTACHMENT WELD	MT.	Yes		03-24-93	
PRESSURE RETAINING WELDS IN PIPING						
CIRCLMFERENTIAL PIPE WELDS > 1/2 IN. NOMIN	AL WALL THICKNESS					
HP-33C-CC8-2-16-SWA	2.5 IN. ELBOW TO PIPE WELD	UT PT	Yes		03-05-93	
HP-33C-CC8-2-28-SWD	2.5 IN. ELBOW TO PIPE WELD	UT PT	Yes Yes		03-16-93	
HP-33C-CCB-2-6A-SWA	4 IN. PIPE TO ELBOW WELD	UT	Yes		03-04-93	
CIRCUMFERENTIAL PIPING WELD < 3/8 IN. NOMI	NAL WALL THICKNESS FOR PIPING > NPS 4		168			
CS-34-GCB-5-13B-FW5	8 IN. PIPE TO ELBOW WELD	PT	Yes		03-03-93	
DH-33A-GCB-7-5-SWB	12 IN. ELBOW TO PIPE WELD	PT	Yes		03-03-93	
DH-33A-HCB-1-1-FW2	18 IN. ELBOW TO VALVE DH2734 WELD	PT	Yes		03-02-93	
DH-33A-HCB-2-12-FW16	14 IN. ELBOW TO PIPE WELD	PT	Yes		02-27-93	
DH-338-GCB-1-6-SWA	6 IN. ELBOW TO PIPE WELD	PT	Yes	93-0078	03-03-93	INDICATION OUTSIDE AREA OF INTEREST - ACCEPTABLE.
	PIPING-INTEGRALLY WELDED ATTACHMENTS MS-3A-EBB-1-1-SR1-AW MS-3A-EBB-1-28-C282-SEC-S1-AW MS-3A-EBB-1-3-SR6-AW RESSURE RETAINING WELDS IN PIPING CIRCUMFERENTIAL PIPE WELDS > 1/2 IN. NOMIN HP-33C-CCB-2-16-SWA HP-33C-CCB-2-6A-SWA CIRCUMFERENTIAL PIPING WELD < 3/8 IN. NOMIN CS-34-GCB-5-13B-FW5 DH-33A-GCB-7-5-SWB DH-33A-HCB-1-1-FW2 DH-33A-HCB-2-12-FW16	PIPING-INTEGRALLY WELDED ATTACHMENTS MS-3A-EBB-1-1-SR1-AW 26 IN. PIPE SUPPORT ATTACHMENT WELD MS-3A-EBB-1-28-C282-SEC-S1-AW 36 IN. PIPE SUPPORT ATTACHMENT WELD MS-3A-EBB-1-3-SR6-AW 26 IN. PIPE SUPPORT ATTACHMENT WELD MS-3A-EBB-1-3-SR6-AW 26 IN. PIPE SUPPORT ATTACHMENT WELD MS-3A-EBB-1-3-SR6-AW 26 IN. PIPE SUPPORT ATTACHMENT WELD CIRCUMFERENTIAL PIPE WELDS > 1/2 IN. NOMINAL WALL THICKNESS HP-33C-CCB-2-16-SWA 2.5 IN. ELBOW TO PIPE WELD HP-33C-CCB-2-28-SWD 2.5 IN. ELBOW TO PIPE WELD CIRCUMFERENTIAL PIPING WELD < 3/8 IN. NOMINAL WALL THICKNESS FOR PIPING > NPS 4 CS-34-GCB-5-13B-FWS B IN. PIPE TO ELBOW WELD DH-33A-GCB-7-5-SWB 12 IN. ELBOW TO PIPE WELD DH-33A-HCB-1-1-FW2 18 IN. ELBOW TO PIPE WELD	PIPING-INTEGRALLY WELDED ATTACHMENTS MS-3A-EBB-1-1-SR1-AM 26 IN. PIPE SUPPORT ATTACHMENT WELD MT MS-3A-EBB-1-28-C282-SEC-S1-AM 36 IN. PIPE SUPPORT ATTACHMENT WELD MT MS-3A-EBB-1-38-C882-SEC-S2-AM 36 IN. PIPE SUPPORT ATTACHMENT WELD MT MS-3A-EBB-1-3-SR6-AM 26 IN. PIPE SUPPORT ATTACHMENT WELD MT MS-3A-EBB-1-3-SR6-AM 26 IN. PIPE SUPPORT ATTACHMENT WELD MT RESSURE RETAINING WELDS IN PIPING CIRCUMFERENTIAL PIPE WELDS > 1/2 IN. NOMINAL MALL THICKNESS HP-33C-CCB-2-16-SWA 2.5 IN. ELBOW TO PIPE WELD UT PT HP-33C-CCB-2-6A-SWA 4 IN. PIPE TO ELBOW MELD UT PT DH-33A-GCB-5-13B-FWS 8 IN. PIPE TO ELBOW WELD PT DH-33A-GCB-7-5-SWB 12 IN. ELBOW TO PIPE WELD PT DH-33A-HCB-1-1-FW2 18 IN. ELBOW TO PIPE WELD PT DH-33A-HCB-2-12-FW16 14 IN. ELBOW TO PIPE WELD PT	Mark Number Component Description NDE Method Acceptable PIPING-INTEGRALLY VELOED ATTACHMENTS MS-3A-EBB-1-1-SR1-AW 26 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes MS-3A-EBB-1-26-C282-SEC-S1-AW 36 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes MS-3A-EBB-1-28-C282-SEC-S2-AW 36 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes MS-3A-EBB-1-3-SR6-AW 26 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes RESSURE RETAINING WELDS IN PIPING CIRCUMFERENTIAL PIPE WELDS > 1/2 IN. NOMINAL WALL THICKNESS HP-33C-CCB-2-16-SWA 2.5 IN. ELBOW TO PIPE WELD UT Yes HP-33C-CCB-2-8-SWO 2.5 IW. ELBOW TO PIPE WELD UT Yes PT Yes HP-33C-CCB-2-6A-SWA 4 IN. PIPE TO ELBOW WELD UT Yes CIRCUMFERENTIAL PIPING MELD < 3/8 IN. NOMINAL WALL THICKNESS FOR PIPING > NPS 4 CIS-34-GCB-5-13B-FWS 8 IM. PIPE TO ELBOW WELD PT Yes DH-33A-GCB-7-5-SWB 12 IN. ELBOW TO PIPE WELD PT Yes DH-33A-HCB-1-1-FW2 18 IN. ELBOW TO PIPE WELD PT Yes DH-33A-HCB-1-1-FW2 18 IN. ELBOW TO PIPE WELD PT Yes DH-33A-HCB-2-12-FW16 14 IN. ELBOW TO PIPE WELD PT Yes	Mark Number Component Description NDE Method Acceptable Number PIPING-INTEGRALLY MELDED ATTACHMENTS MS-3A-EBB-1-1-SR1-AN 26 IN. PIPE SUPPORT ATTACHMENT MELD MT Yes MS-3A-EBB-1-28-C282-SEC-S1-AN 36 IN. PIPE SUPPORT ATTACHMENT MELD MT Yes MS-3A-EBB-1-28-C282-SEC-S2-AN 36 IN. PIPE SUPPORT ATTACHMENT MELD MT Yes MS-3A-EBB-1-3-SR6-AN 26 IN. PIPE SUPPORT ATTACHMENT MELD MT Yes RESSURE RETAINING MELDS IN PIPING CIRCUMFERENTIAL PIPE WELDS > 1/2 IN. NOMINAL MALL THICKNESS HP-33C-CCB-2-16-SWA 2.5 IN. ELBOW TO PIPE WELD UT Yes PT Yes HP-33C-CCB-2-6A-SWA 4 IN. PIPE TO ELBOW MELD UT Yes PT Yes CIRCUMFERENTIAL PIPING WELD < 3/8 IN. NOMINAL MALL THICKNESS FOR PIPING > NPS 4 CIRCUMFERENTIAL PIPING WELD < 3/8 IN. NOMINAL MALL THICKNESS FOR PIPING > NPS 4 CIRCUMFERENTIAL PIPING WELD < 3/8 IN. NOMINAL MALL THICKNESS FOR PIPING > NPS 4 CIRCUMFERENTIAL PIPING WELD < 3/8 IN. NOMINAL MALL THICKNESS FOR PIPING > NPS 4 CIRCUMFERENTIAL PIPING WELD < 3/8 IN. NOMINAL MALL THICKNESS FOR PIPING > NPS 4 CIRCUMFERENTIAL PIPING WELD < 3/8 IN. NOMINAL MALL THICKNESS FOR PIPING > NPS 4 CIRCUMFERENTIAL PIPING WELD < 7 Yes DH-33A-GCB-7-5-SWB 12 IN. ELBOW TO PIPE WELD PT Yes DH-33A-HCB-1-1-FW2 18 IN. ELBOW TO PIPE WELD PT Yes	Mark Number Component Description NDE Method Acceptable Number Exam Date PIPING-INTEGRALLY MELDED ATTACHMENTS 26 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes 03-29-93 MS-3A-EBB-1-28-C282-SEC-SI-AM 36 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes 03-09-05 MS-3A-EBB-1-28-C282-SEC-S2-AM 36 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes 03-09-05 MS-3A-EBB-1-3-SR6-AM 26 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes 03-09-05 MS-3A-EBB-1-3-SR6-AM 26 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes 03-09-05 MS-3A-EBB-1-3-SR6-AM 26 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes 03-09-05 MS-3A-EBB-1-1-SR6-AM 26 IN. PIPE SUPPORT ATTACHMENT WELD MT Yes 03-09-05 MS-3A-CCB-2-16-SMA 2.5 IN. ELBOW TO PIPE WELD UT Yes 03-05-93 MP-33C-CCB-2-28-SMD 2.5 IN. ELBOW TO PIPE WELD UT Yes 03-06-93 MP-33C-CCB-2-6A-SMA 4 IN. PIPE TO ELBOW MELD PT Yes 03-06-93 DH-33A-GCB-7-5-SWB 12 IN. ELBOW TO PIPE W

Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number Exam Date	Comments
CO5.11A	CIRCUMFERENTIAL PIPING WELD < 3/8 IN. NO	MINAL WALL THICKNESS FOR PIPING > NPS 4				
	DH-33B-GCB-10-13-SWA	10 IN. PIPE TO TEE WELD	PT	Yes	02-27-93	
C05.21A	HP-33A-GCB-4-6-SWE CIRCUMFERENTIAL PIPING WELD <= 1/5 IN. N	6 IN. ELBOW TO ELBOW WELD OMINAL WALL THICKNESS FOR PIPING >= NPS 2 AND	PT <= NPS 4	Yes	03-03-93	
	HP-33C-HCC-91-5-SWB	PIPE TO ELBOW WELD	PŢ	Yes	02-27-93	
C05.41A	HP-4-GCB-11-FW52 CIRCUMFERENTIAL WELD IN PIPE BRANCH CONN	4 IN. PIPE TO REDUCING TEE WELD ECTIONS OF THIN WALL BRANCH PIPING >= NPS Z	PT	Yes	03-01-93	
	DH-338-GCB-10-5-SWB	10 IN. PIPE TO 4 IN. BRANCH CONNECTION WELD	PT	Yes	02-27-93	
C-F-5 P	RESSURE RETAINING WELDS IN CARBON OR LOW A					
c05.051		HOMINAL WALL THICKNESS FOR PIPING >NPS 4	UT	Yes	03-24-93	
	AF-60-EBB-4-A597-1-SWO	6 IN. TEE TO PIPE WELD	MT	Yes		
	FW-7-EBB-3-12-FW37	14 IN. ELBOW TO PIPE WELD	UT MT	Yes Yes	03-17-93	
	MS-3A-EBB-1-9-SWC	36 x 26 CONCENTRIC REDUCER TO THE WELD	UT MT	Yes Yes	03-23-93	
c05.052	LONGITUDNAL PIPING WELDS >= 3/8 IN. NOM	INAL WALL THICKNESS FOR PIPING >4 NPS				
	MS-3A-E8B-1-9-SWC-LD	36 X 36 X 36 TEE LONGSEAM WELD DOWNSTREAM	UT MT	Yes	03-23-93	
C05.51A	CIRCUMFERENTIAL PIPING WELDS < 3/8 IN.	NOMINAL WALL THICKNESS FOR PIPING > NPS 4				
	MS-3A-EBB-2-16-FW23	6 IN. PIPE TO ELBOW WELD	MT	Yes	03-08-93	

Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number Exam Date	Comments
Code Class 1	建设建设过度的过程模型的过程度过度的发现现现代的现代的现代形式					
F-A SUPPOR	RTS					
F01.010 CL/	ASS 1 PIPING SUPPORTS					
	CF-33B-CCA-6-H5	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes	03-24-93	Relief Request RR-A9 is applicable.
	RC-FSK-M-CCA-7-1-HZ	RIGID SUPPORT	VT-3	Yes	03-19-93	Relief Request RR-A9 is applicable.
	RC-FSK-M-CCA-7-1-PS-H25	HYDRAULIC SMUBBER SUPPORT	VT -3	Yes	04-03-93	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
	RC-FSK-M-CCA-7-1-PS-H26	HYDRAULIC SMUBBER SUPPORT	VT-3	Yes	04-03-93	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
	RC-M1170-H14	DOUBLE HYDRAULIC SNUBBER SUPPORT	VT-3	Yes	04-14-93	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
	RC-M1170-H4	RIGID SUPPORT/HYDRAULIC SNUBBER	VT-3	Yes	04-13-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-134-PS-H34	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes	03-11-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.

Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
F01,010	CLASS 1 PIPING SUPPORTS						
	RC-MK-A-103-PS-H37	HYDRAULIC SMUBBER SUPPORT	VT-3	Yes		03-11-93	Relief Request RR-A9 is applicable, CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-A-108-PS-H8	HYDRAULIC SNUBBER SUPPORT	V1-3	Yes		04-03-93	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
	RC-MK-A-112-PS-H4	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		04-03-93	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
	RC-MK-A-112-PS-H5	VARIABLE SPRING SUPPORT	VT-3	Yes		03-19-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-A-135-PS-H22	VARIABLE SPRING SUPPORT	V1-3 V1-3	No Yes	93-0116	03-12-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(8) POST HEATUP EXAMINATION. SPRING CAN SETTING OUT OF TOLERANCE - ADJUSTED SETTING. PERFORMED PRESERVICE EXAMINATION.
	RC-MK-A-135-PS-H27	HYDRAULIC SMUBBER SUPPORT	VT-3	Yes		03-11-93	Relief Request RR-A9 is applicable, CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.

Davis Besse Nuclear Power Station Unit #1 Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 8R Refueling Outage

06/08/93 08:25:11

Exam Category Code Item	Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number Exam Date	Comments
F01.010	CLASS 1 PIPING SUPPORTS RC-MK-A-135-PS-H29	HYDRAULIC SNUBBER SUPPORT	VY-3	Yes		Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-A-135-PS-H31	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes	03-11-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-A-135-PS-H35	VARIABLE SPRING SUPPORT	VT-3	Yes	03-12-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-A-135-PS-H36	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes	03-11-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-A-139-PS-H20	HYDRAULIC SMUBBER SUPPORT	VT-3	Yes	03-17-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-A-139-PS-H21	HYDRAULIC SNUBBER SUPPORT	A1-3	Yes	03-17-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-A-93-PS-H23	VARIABLE SPRING SUPPORT	VT-3	Yes	03-19-93	Relief Request RR-A9 0 is applicable. CODE

Exam Category Code Item	Mark Kumber	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
	MAIK KUNDET		思出世世世世祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖祖				CASE M-491-2220(B) POST HEATUP EXAMINATION.
F01_010	CLASS 1 PIPING SUPPORTS						
	RC-MK-A-93-PS-H33	VARIABLE SPRING SUPPORT	V1-3	Yes		03-12-93	Relief Request RR-A9 is applicable, CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-A-95-PS-H12	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		03-17-93	Relief Request RR-A9 is applicable, CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-MK-A-95-PS-H15	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		03-26-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST NEATUP EXAMINATION.
	RC-MK-A-95-PS-H17	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		03-17-93	Relief Request RR-A9 is applicable, CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
	RC-NK-A-96-PS-HZ	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		04-03-93	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION
	RC-MK-A-96-PS-H3	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		03-20-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(8) POST HEATUP EXAMINATION.

Davis Besse Nuclear Power Station Unit #1 Inservice Inspection Abstract of ASME Class 2 Examinations 8R Refueling Out

06/08/93 08:25:18

Exam Category Code Item Mark Number	Component Description	NDE Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
Cxde Ciass Z						
F-A SUPPORTS						
F01.020 CLASS 2 PIPING SUPPORTS						
FW-7-EBB-3-16-C2B5	SEISMIC ANCHOR SUPPORT	VT-3	Yes		02-27-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
HP-33C-CCB-2-H23	RIGID SUPPORT	VT-3	Yes		03-01-93	Relief Request RR-A9 is applicable.
HP-ANCHOR-A053	3 IN. ANCHOR	VT-3	Yes		02-24-93	Relief Request RR-A9 is applicable.
MS-3A-EBB-1-1-SR1	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		04/05/93	Relief Request RR-A9 is applicable.
MS-3A-EBB-1-17-SRB	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		03-24-93	Relief Request RR-A9 is applicable. CODE CASE N-491-2220(B) POST HEATUP EXAMINATION.
F01.040 COMPONENT SUPPORTS						
DH-PUMP-1-1-SUPPORTS	DECAY HEAT PUMP P42-1 SUPPORTS	V1-3	Yes		02-25-93	Relief Request RR-A9 is applicable.

Davis Besse Nuclear Power Station Unit #1 Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 8R Refueling Outage

Page: 21

Exam Category Code Item Mark Number	Component Description N	DE Method	Examination Acceptable	PEAG Number	Exam Date	Comments
F-A SUPPORTS						
F01.040 COMPONENT SUPPORTS						
RC-RCP-1-1-1-SNUBBERS	REACTOR COOLANT PUMP 1-1-1 SNUBBERS	VT-3	Yes		03-09-93	Relief Request RR-A9 is applicable.
RC-RCP-1-1-1-SUPPORTS	REACTOR COOLANT PUMP 1-1-1 RIGID AND VARIABLE SPRING SUPPORTS	V1-3	Yes		03-09-93	Relief Request RR-A9 is applicable.
RC-RPV-Y/Z AXIS SUPPORT	REACTOR VESSEL Y/Z AXIS SUPPORT	VT-3	Yes		03-08-93	Relief Request RR-A9 is applicable.

Exam Category Code Item Mark Number	Component Description	NDE Method	Fxamination Acceptable		Exam Date	Comments
Code Class 2						
F-A SUPPORTS						
FO1.20A THIN WALL PIPING SUPPORTS						
CS-34-GCB-5-H9	SWAY STRUT SUPPORT	VT-3	Yes		03-01-93	Relief Request RR-A9 is applicable.
DH-33A-GC8-8-H4	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes	93-0070	02-24-93	Relief Request RR-A9 is applicable. LOOSE ANCHOR BOLT NUT - SUPPORT ACCEPTABLE FOR SERVICE BUT ANCHOR BOLT TO BE RETORQUED.
DH-33A-HCB-2-H20	WELDED RIGID SUPPORT	VT-3	Yes		02-24-93	Relief Request RR-A9 is applicable.
DH-338-GCB-10-H24	VARIABLE SPRING SUPPORT	V1-3	Yes		03-29-93	Relief Request RR-A9 is applicable.
DH-33C-GC8-10-H22	HYDRAULIC SNUBBER SUPPORT	VT-3	Yes		03-01-93	Relief Request RR-A9 is applicable.
HP-338-GCB-2-H4	SWAY STRUT SUPPORT	VT-3	Yes		02-24-93	Relief Request RR-A9 is applicable.
HP-33C-HCC-91-H1	NONWELDED RIGID SUPPORT	VT-3	Yes		02-25-93	Relief Request RR-A9 is applicable.
MS-3A-EBB-2-H11	SWAY STRUT SUPPORT	VT-3	Yes		03-08-93	Relief Request RR-A9 is applicable.
MS-3A-EBB-Z-H22	VARIABLE SPRING SUPPORT	VT-3	Yes		05-21-93	Relief Request RR-A9 is applicable. PRESERVICE

Davis Besse Nuclear Power Station Unit #1 Inservice Inspection Abstract of ASME Class 1 and Class 2 Examinations 8R Refueling Outage

Page: 23

Exam Category Code Item	Mark Humber	Component Description	NDE	Method	Examination Acceptable	PCAQ Number	Exam Date	Comments
F01.20A	THIN WALL PIPING SUPPORTS							EXAMINATION
	MS-3A-E88-2-H36	HYDRAULIC SNUBBER SUPPOR		VT-3	Yes		10-24-90	Relief Request RR-A9 is applicable. PRESERVICE EXAMINATION

The total number of ASME Class 1 , Class 2 and Class 3 examinations completed in the BR Refueling Outage was 245. This brings the total number of components for which all examinations have been completed in the Second Ten Year Inservice Inspection Interval to 303 or 29 percent of the required examinations.

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

					O Madison ad Address of	THE RESERVE				
2.	Plant	Davis-Besse	Nuclear	Power	Station,	Oak	Harbor,	Ohio	43449	
				(Name a	and Address o	of Plan	10)			
3.	Plant Un	it #1	4.	Owner C	Certificate of	Autho	orization (if	require	d) N/A	
5.	Commer	cial Service Date	11/21/77	6. Nati	onal Board N	umbe	r for Unit _	N/	/A	
7.	Compon	ents Inspected	System	Pressur	re Tests					

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Class 1 Piping/Components	Babcock & Wilcox	Various	N/A	
Class 2 Piping/Components	ITT Grinnell	Various	N/A	
Class 3 Piping/Components	ITT Grinnell	Various	II/A	
	*			
			-	
			The state of the s	

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

FORM NIS-1 (back)

8. Examination Dates Nov 1991 to May 1993 9. Inspection Interval from Sept 1990 Sept 20
 Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Note 1
11. Abstract of Conditions Noted Note 2
12. Abstract of Corrective Measures Recommended and Taken
All Corrective Measures are identified in the specific test packages and are available for review at the plant site.
We certify that the statements made in this report are correct and the examinations and corrective mentations taken conform to the rules of the ASME Code, Section XI.
Date 6-15 1993 Signed Toledo Edison By Endel Cl
Certificate of Authorization No. (if applicable) N/A Expiration Date N/A CERTIFICATE OF INSERVICE INSPECTION
CERTIFICATE OF INSERVICE INSPECTION 1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse Inspectors and/or the State or Province of Ohio and employed by H.S.B.I. & I. Co. of Hartford, CT have inspected the components described in this Owners' Data Report during the period Nov 1991 to May 1993, and state that to the best of my knowledge and belief, the Owner with the requirements of the ASM ode, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage.

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

SYSTEM PRESSURE TESTS

Below is a listing of the ASME Section XI System Pressure Testing completed from the start of Cycle 8 (November 5, 1991) through the Eighth Refueling Outage (May 1, 1993), as witnessed and/or verified by R. E. Cook, ANII. These tests were performed in accordance with ASME Section XI and the Inservice Testing Program.

Auxiliary Feedwater (AFW)

AFW Pumps 1 and 2 Discharge Hydrotest per DB-PF-03065 (AF002, AF006), March 6, 1993.

AFW Pump 2 Cooling Lines Hydrotest per DB-PF-03065 (AF008), March 5, 1993.

Component Cooling Water (CCW)

CCW Containment Header Inservice Test per DB-PF-03065 (CC003, CC004, CC005, CC006, CC007, CC008, CC009, CC010, CC011, CC012, and CC013), April 21, 1993.

CCW Pump 1-1 and Heat Exchanger Hydrotest per DB-PF-03065 (CC014), March 15, 1993.

CCW Line 1 Hydrotest per DB-PF-03065 (CC015A), March 17, 1993.

CCW Line 1 to EDG Jacket Heat Exchanger Hydrotest per DB-PF-03065 (CC015B), March 17, 1993.

CCW Line 1 to CTMT Gas Analyzer Heat Exchanger Hydrotest per DB-PF-03065 (CC015C), March 17, 1993.

CCW to ECCS Cooling Line Train 1 Inservice Test per DB-PF-03065 (CC016), March 13, 1993.

CCW to ECCS Cooling Line Train 2 Inservice Test per DB-PF-03065 (CC019), May 22, 1992.

CCW Pump 1-3 and Heat Exchanger Hydrotest per DB-PF-03065 (CC020), October 14, 1991.

CCW to Non-Essential Header Hydrotest per DB-PF-03065 (CC021), March 8, 1993, and March 16, 1993.

Repair and Replacement Hydrotests for MWO 7-93-0094-01, CC283 Replacement, per DB-PF-03065, April 8, 1993.

Repair and Replacement Hydrotests for MWO 7-93-0099-02, CC483 Replacement, per DB-PF-03065, April 8, 1993.

Repair and Replacement Hydrotest for MWO 1-91-1535-24, CC380 Spoolpiece, per DB-PF-03065, April 2, 1993.

Repair and Replacement Hydrotest for MWOs 2-92-0038-01 and 1-92-0492-00, Letdown Cooler Replacement, per DB-PF-03065, April 7, 1993.

Containment Spray (CS)

CS Train 2 Functional Test per DB-PF-03065 (CS004 and CS005), January 22, 1993.

Containment Ventilation

Containment Hydrogen and Airborne Radiation Sample Lines - CTMT P42B - Functional Test per DB-PF-03065 (CV006), March 16, 1993.

Containment Hydrogen and Airborne Radiation Sample Lines - CTMT P43B - Functional Test per DB-PF-03065 (CV007), March 16, 1993.

Containment Purge Exhaust - CTMT P34 - Functional Test per DB-PF-03065 (CV008), April 21, 1993.

Containment Purge Supply - CTMT P33 - Functional Test per DB-PF-03065 (CV009), April 21, 1993.

Containment Hydrogen Dilution System Exhaust - CTMT P51 - Functional Test per DB-PF-03065 (CV010), March 8, 1993.

Containment Hydrogen Dilution Supply Train 1 - CTMT P67 - Functional Test per DB-PF-03065 (CV011), March 13, 1993.

Hydrogen Dilution Supply Train 2 - CTMT P69 - Functional Test per DB-PF-03065 (CV012), March 13, 1993.

Containment Hydrogen Dilution Blower 1 Suction and Discharge Functional Test per DB-PF-03065 (CV013 and CV014), March 4, 1992.

Containment Hydrogen Dilution Blower 2 Suction and Discharge Functional Test per DB-PF-03065 (CV015 and CV016), April 13, 1992.

Emergency Vent System Fan and Filler Units Functional Test per DB-PF-03065 (CV017), October 11, 1991.

Post Accident Sampling Lines Inservice Test per DB-PF-03065 (CV019, CV020, and CV021), March 29, 1993.

Containment Vacuum Breaker - CTMT P8B - Functional Test per DB-PF-03065 (CV023), March 19, 1993.

Containment Vacuum Breaker - CTMT P8C - Functional Test per DB-PF-03065 (CV024), March 19, 1993.

Containment Vacuum Breaker - CTMT P8D - Functional Test per DB-PF-03065 (CV025), March 19, 1993.

Containment Vacuum Breaker - CTMT P8F - Functional Test per DB-PF-03065 (CV027), March 18, 1993.

Containment Vacuum Breaker - CTMT P8G - Functional Test per DB-PF-03065 (CV028), March 18, 1993.

Core Flood (CF)

CF Tank 1 Inservice Test per DB-PF-03065 (CF001), April 18, 1993.

Common CF Tank Bleed Line - CTMT P47A - Functional Test per DB-PF-03065 (CF005), April 16, 1993.

CF Tank 1 Fill Line - CTMT P71C - Functional Test per DB-PF-03065 (CF006), April 11, 1993.

CF Tank 1 Discharge to RCS Inservice Test per DB-PF-03065 (CF007), April 27, 1993.

CF Tank 2 Discharge to RCS Inservice Test per DB-PF-03065 (CF008), April 27, 1993.

Decay Heat (DH)

BWST Supply to Train 1 and 2 ECCS Suction Inservice Test per DB-PF-03065 (DH001, DH002, and DH007), February 12, 1993.

DH Pump 1-1 Discharge Hydrostatic Test per DB-PF-03065 (DH005), September 27, 1991.

DH Pump 1 Sample Source Line Functional Test per DB-PF-03065 (DH006), June 5, 1992.

DH Pump 2 Sample Source Line Functional Test per DB-PF-03065 (DH010), April 24, 1992.

DH Pressurizer Spray Line - CTMT P74C - Functional Test per DB-PF-03065 (DH011), April 17, 1993.

Refuel Canal Fill Line - CTMT P49 - Functional Test per DB-PF-03065 (DH012), April 1, 1993.

BWST Recirculation Lines From DH Functional Test per DB-PF-03065 (DH013), April 1, 1993.

RCS to DH Pump Suction Functional Test per DB-PF-03065 (DH014), March 23, 1993.

RCS to DH Pump 1 and 2 Suction Hydrotest per DB-PF-03065 (DH004 partial), March 23, 1993.

RCS to DH Pump 2 Suction Hydrotest per DB-PF-03065 (DH008), March 24, 1993.

Diesel Air Start

Emergency Diesel Generator Starting Air Receiver Tank 1-2 per DB-PF-03065 (DA002), July 10, 1992.

Emergency Diesel Generator Starting Air Receiver Tank 2-2 per DB-PF-03065 (DA004), July 30, 1992.

Diesel Fuel Oil

Fuel Oil Storage Tank 1-2 Functional Test per DB-PF-03065 (D0003), March 27, 1993.

Fuel Oil Day Tank 1-1 Inservice Test per DB-PF-03065 (D0004), January 20, 1993.

High Pressure Injection (HPI)

HPI Pump 1 Discharge and Return to BWST Functional Test per DB-PF-03065 (HP001A and HP002), July 28, 1993.

HPI and MU to RCS - CTMT P50 - Functional Test per DB-PF-03065 (HP003), March 8, 1993.

HPI Line 1-1 to RCS (P22) Functional Test per DB-PF-03065 (HP004), September 6, 1991.

HPI Pump 2 Return to BWST Functional Test per DB-PF-03065 (HP005A), June 19, 1992.

HPI Pump 2 to RCS - CTMT P19 - Functional Test per DB-PF-03065 (HP007), March 22, 1993.

HPI Pump 2 Suction Hydrotest per DB-PF-03065 (HP005), March 26, 1993.

HPI Pump 2 Discharge Hydrotest per DB-PF-03065 (HP006), March 24, 1993.

Normal Makeup Injection - CTMT P20 - Inservice Test per DB-PF-03065 (HP008), April 27, 1993.

Makeup (MU)

Repair and Replacement Hydrotest for MWOs 1-92-0492-00 and 2-92-0038-01, Letdown Cooler Replacement, per DB-PF-03065, April 3, 1993.

Makeup From Letdown Coolers - CTMT P14 - Inservice Test per DB-PF-03065 (MU001), April 27, 1993.

Makeup Seal Injection to RCPs - CTMT P54, P55, P52, and P53 - Inservice Test per DB-PF-03065 (MU002, MU003, MU004, and MU005), April 27, 1993.

Makeup Seal Return From RCPs - CTMT P56 - Inservice Test per DB-PF-03065 (MU006), April 27, 1993.

Mainsteam (MS)

MS Line 1 and 2 (Auxiliary Building) Inservice Test per DB-PF-03065 (MS001 and MS002), May 1, 1992.

MS Line 1 (Annulus/CTMT) Inservice Test per DB-PF-03065 (MS001), April 27, 1993. (Note: Code Case N-416 for MWO 2-90-0066-01 Main Feedwater Spray Nozzle Replacement.)

Mainsteam (MS) (continued)

MS Line 2 (Annulus/CTMT) Inservice Test per DB-PF-03065 (MS002), April 27, 1993. (Note: Code Case N-416 for MWOs 2-90-0066-02 Main Feedwater Spray Nozzle Replacement and 1-91-0602-00 MS883 replacement.)

Repair and Replacement Hydrotest for MWOs 2-91-0044-01 (MS734) and 2-87-1273-04 (MS5889A) per DB-PF-03065, April 11, 1993.

Repair and Replacement Hydrotests for MWOs 2-91-0044-02 (MS735) and 2-87-1273-05 (MS5889B) per DB-PF-03065, April 10, 1993.

Reactor Coolant (RCS)

RCS Leakage Test (Class 1 Piping) Leakage Test per DB-PF-03065 (RC001L, RC002, DH015, DH016, CF009, and CF010), April 27, 1993.

RCS Sample Line (P1) Functional Test per DB-PF-03065 (RC003), March 29, 1993.

Quench Tank Sample Line (P68A) Functional Test per DB-PF-03065 (RC008), April 1, 1993.

RCP 1-1, 1-2, 2-1, and 2-2 Gasket Drain Lines Inservice Test per DB-PF-03065 (RC009, RC010, RC011, and RC012), April 27, 1993.

RCP Seal Cavity to Gaseous Rad Waste - CTMT P16 - per DB-PF-03065 (RC004), April 27, 1993.

Service Water (SW)

Repair and Replacement Hydrotest for MWO 2-90-0045-03 per DB-PF-03065, December 8, 1992.

Repair and Replacement Hydrotest for MWOs 7-92-0275-01, 7-92-0275-04, and 7-92-0275-07 per DB-PF-03065, January 25, 1993.

Repair and Replacement Hydrotest for MWO 2-91-0004-01 per DB-PF-03065, December 13, 1991.

Repair and Replacement Hydrotest for MWO 1-91-1666-00 per DB-PF-03065, April 20, 1992.

Repair and Replacement Functional Test for MWO 3-92-0924-01, April 20, 1992.

Repair and Replacement Hydrotest for MWO 2-91-0052-02 per DB-PF-03065, January 5, 1993.

SW to Train 1 Return from CCW Heat Exchangers Hydrotest (Repair and Replacement: MWO 2-91-0052-23) per DB-PF-03065 (SW004C), March 15, 1993.

SW to CAC 1 Hydrotest (Repair and Replacement: MWOs 2-91-0052-25, -26, -27, -28, and -29) per DB-PF-03065 (SW005), April 14, 1993.

SW Pump 2 Discharge Inservice Test per DB-PF-03065 (SW008), October 27, 1992.

Service Water (SW) (continued)

SW Train 2 Return from CCW Heat Exchangers (Repair and Replacement: MWO 2-91-0052-06) per DB-PF-03065 (SW011C), April 8, 1993.

SW to CAC 2 Hydrotest (Repair and Replacement: MWOs 2-91-0052-08, -09, -10, -11, and -12) per DB-PF-03065 (SW012), March 27, 1993.

SW Supply to AFW Hydrotest per DB-PF-03065 (SW013), March 4, 1993.

SW to Hydrogen Dilution Blower 2 Hydrotest per DB-PF-03065 (SW014), February 16, 1993.

SW Pump 3 Discharge Inservice Test per DB-PF-03065 (SW015), January 19, 1993.

SW to CCW Heat Exchanger 3 Hydrotest per DB-PF-03065 (SW017), March 1, 1993.

SW to CAC 3 Hydrotest (Repair and Replacement: MWOs 2-91-0052-13, -14, -15, -16, and -17) per DB-PF-03065 (SW018), April 13, 1993.

SW to CACs Hydrotest per DB-PF-03065 (SW019), April 1, 1993.

SW to ECCS Room Cooler 1-4 Hydrotest per DB-PF-03065 (SW023), January 25, 1993.

SW to ECCS Room Cooler 1-5 Hydrotest per DB-PF-03065 (SW024), January 28, 1993.

Repair and Replacement Hydrotest for MWOs 2-91-0052-18 and 2-91-0052-19 per DB-PF-03065, March 20, 1993.

Repair and Replacement Hydrotest for MWOs 2-91-0052-30 and 2-91-0052-31 per DB-PF-03065, March 25, 1993.

SW Return from CACs Hydrotest per DB-PF-03065 (SW028), March 27, 1993.

SW Return Header Hydrotest per DB-PF-03065 (Repair and Replacement: MWO 2-91-0052-20) (SW029), March 15, 1993, and March 18, 1993.

Spent Fuel Pool (SFP)

SFP Return Line Functional Flow Test per DB-PF-03065 (SF006), March 19, 1993.

Station Air (SA)

SA Supply to CS Lower Ring Header Functional Test per DB-PF-03065 (SA002), March 26, 1993.

SA Supply to CS Upper Ring Header Functional Test per DB-PF-03065 (SA003), March 26, 1993.

Station Drainage

Station Drainage - CTMT P13 - Functional Test per DB-PF-03065 (DR001), April 2, 1993.

Repairs and Replacements

The following repairs and replacements on ASME Class 1 and 2 components were performed on the Davis Besse Nuclear Power Station Unit #1 since November, 1991, which marked the completion of the Seventh Refueling Outage and the completion of the 8th Refueling cutage in April, 1993.

Documentation for these repairs and replacements is available for review.

main chance Work	Order # System	Description
1-90-2020-01	Main Steam	Replaced hanger pipe clamp and nuts
1-91-0119-01	Decay Heat	Replaced flange stud and nuts for relief valve DH 1550
1-91-0121-00	High Pressure Injection	Replaced inlet and outlet flange studs and nuts for safety valve HP 1510
1-91-0250-00	Decay Heat	Replaced relief valve DH 4849 and inlet and outlet flange studs and nuts
1-91-0602-00	Main Steam	Replaced drain valve MS 883
1-91-1116-00	N/A	Rebuilt spare Pressurizer Code Safety Valve S/N 56264-00-0005
1-91-1535-01	Reactor Coolant System	Rebuilt, tested and reinstalled hydraulic snubbers on Reactor Coolant Pump 1-2-1.
1-91-1616-00	Containment Spray	Replaced flange studs and nuts on spools 33A- HCB-3-6 and 33A-HCB-3-7 and flange downstream of valve CS 3
1-92-0170-00	Reactor Coolant System	Replaced Code Safety Valve RC 13A
1-92-0171-00	Reactor Coolant System	Replaced Code Safety Valve RC 13B

Maintenance Work	Order # System	Description
1-92-0338-00	Containment Spray	Rebuilt and tested hydraulic snubbers for pipe hanger 34-HCB-4- H32
1-92-0338-04	Stram Generator Drain	Replaced hydraulic snubber for pipe hanger 7-EBB-5-H11
1-92-0447-01	Pressurizer Surge	Rebuilt, tested, and reinstalled hydraulic snubber for pipe hanger PSU-1-R1
1-92-0447-02	Pressurizer Surge	Rebuilt, tested, and reinstalled hydraulic snubbers for pipe hangers PSU-1-R2 and PSU-1-R3
1-92-0469-00	Auxiliary Feedwater	Rebuilt, tested, and reinstalled hydraulic snubber for pipe hanger 6C-EBB-4-H15
1-92-0473-00	Decay Heat	Rebuilt, tested, and reinstalled hydraulic snubber for pipe hanger 33B-CCB-6-H2
1-92-0484-00	Main Steam	Rebuilt, tested, and reinstalled hydraulic snubber for seismic restraint 3A-EBB1-SR1
1-92-0717-01	Main Steam	Rebuilt, tested, and reinstalled hydraulic snubber for pipe hanger SA-EBB-1-H1
1-92-0845-00	Spent Fuel	Replaced a nut and bolt on the Fuel Transfer Tube Flanges
1-92-0950-00	Main Feedwater	Rebuilt, tested, and reinstalled hydraulic snubbers for seismic restraints 7-EBB-3-SR25A, 7-EBB3-SR24A, and 7-EBB-3-SR20

Maintenance Work Ord	er # System	Description
1-92-1006-00	Containment Spray	Replaced hydraulic snubbers on pipe hanger 34-GCB-5-H32
1-93-0227-00	Main Steam	Replaced plug assembly and one nut on Atmospheric Vent Valve ICS 11A
1-93-0227-01	Main Steam	Replaced plug assembly on Atmospheric Vent Valve ICS 11B
1-93-0326-00	Main Steam	Replaced hydraulic snubber on seismic restraint 3A-EBB-1-SR4
1-93-0371-00	Main Steam	Rebuilt snubber and reinstalled
1-93-0503-01	Main Steam	Replaced and machined wedge for valve MS 106
2-90-0079-04	Reactor Coolant System	Replaced Grinnell hydraulic snubbers with Lisega hydraulic snubbers
2-91-0047-01	Reactor Coolant System	Modified pipe hanger M1170-H14
Mod 91-0052-00	Service Water	Added fire suppression connections and access spools to the Service Water System. Modified pipe hangers
2-92-0004-02	Reactor Coolant System	Installed pipe spools and replaced bolting on Reactor Vessel High Point Vent piping
7-93-0059-01	Reactor Coolant System	Replaced and machined wedge for Makeup Valve MU1A
7-93-0123-01	Service Water	Replaced flange bolting on Containment Air Cooler 1-1 headers

Maintenance Work C	rder # System	Description
7-93-0174-01	Makeup and Purification	Modified pipe hangers between valves MU66A, MU66B, MU66C, MU66D, and the shield building
7-93-0187-01	Service Water	Replaced flange bolting on Containment Air Cooler 1-3 return header
7-93-0228-02	Decay Heat	Replaced bolting on relief valve DH 1529 inlet flange
7-93-0228-03	High Pressure Injection	Replace bolting on relief valve HP 1511 inlet flange
B&W Nuclear Service Task 1.0	e Co. Reactor Coolant System	Replaced nuts on Reactor Vessel Head Vent Line piping flange
Task 2.0	Reactor Coolant System	Replaced two Steam Generator Upper Manway studs
Task 3.0	Reactor Coolant System	Replaced one Control Rod Drive Mechanism and bolting at fifteen locations
Task 5.0	Main Feedwater	Added a field weld to each main feewater riser and replaced bolting at two locations on Steam Generator 1-1
Task 5.0	Main Feedwater	Added a field weld to each main feewater riser and replaced bolting at four locations on Steam Generator 1-2
Task 5.2A	Reactor Coolant System	Performed tube plugging and stabilization in Steam Generator 1-1

Maintenance Work Order # System Description

Task 5.2A Reactor Coolant System Performed tube plugging and stabilization in Steam Generator 1-2

Task 428 Reactor Coolant System Repaired valve NU1A

Welding Services Inc.

Reactor Coolant System Repaired cladding on Steam Generator 1-2
Upper Hand Hole Flange Face

. owner Tol	edo Edison Co	mpany		Date	10/1	5/90		
	300 Madison A	ve., Toledo,	он. 43652		Sheet	0	r1	
plent Dav	is Besse Nucl	ear Power Pla	nt	Unit	1			
		Oal Harbor,				1-90-2	020-01 on P.O. No., Joh	No., etc.
							NR	
Work Perform	med by Toledo	Name			Code Symbol !	-		
	300 Madison A	Address	OH. 4365	2.	Authorization D			
Towntificati	on of Systems	Main Steam						
. (a) Applica	able Construction	MSS-SP58 code ANSI B31.					None	Code Cas
		ITT Grinnell						•
Identificati	ion of Components	Repaired or Replace	ed and Replac	cement Cos	sponents			
NAME OF COMPONENT	NAME OF MARUFACTURER	MANUFACTURER'S SERIAL NO.	NATIONAL BOARD NO.	IDER	THER TIPICATION/ SDICTIONAL NO.	YEAR BUILT	REPLACED OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
IYD SNUBBER	ITT GRINNELL	16829	N/A	A-53 E	DBB 2-H36	N/A	Replaced Clamp Stud and Nuts	No
	Replace	d load stud ar	nd nuts @	pipe (clamp end	of snul	bber.	
Description o	E WOLK							
							1) Continued
. Tests Conducted:	Hydrostatic [inal Operatin		() Ot	and a second
		f Valve: Service					N/A	
	ALERGES MASSO		Pressure		AND DO NOT THE REAL PROPERTY.	Blowde	own (if applicat	ile) N/A
			scure and Bl		justments mad	we atusin		/A
(2) Info	ntal sheets in for rmation in items or of sheets is re	m of lists, sketch	a rabotr 12	Auto-American	e used, provi	ded (1) s	ise is 84 in. x	Medium

	44./4	PC609K BTLS-2/989-	1/MPPB-1 (BACK)	Pa. 2012
9. Remarks:	N/A Applicable Manufecturer	Cota Barrier to be		Fay. Cot C
	Applicable Pandiecturer	rs Data Reports to De	attached	
P TO AN ADMINISTRATION OF THE PARTY OF THE P				
		DO LAMBOUR THE CONTROL OF THE CONTRO		[] CONTINUED
THE RESIDENCE OF THE PERSON NAMED IN COLUMN		PERSONAL PROPERTY OF STREET AND THE STREET WAS ARREST OF THE STREET, THE STREET AND THE STREET AND THE STREET,	NAMES OF THE PROPERTY OF THE P	The second secon
		CERTIFICATE	OF COMPLIANCE	
We certify that	the statements made in the	e report are correct a	nd this Replace	ment
				r or replacement
	rules of the ASPE Code, Se			
Type Code Symbol	1 Stamp National			
Certificate of A	Authorization No. 20		Expiration De	te 7-17-92
signed Their	+ 1. Donallar	, Quality	Control Manager	Dete 18 0 - T .19 ?
3000.000.000	Owner or Owner's I	Designee, Title		
	DATES THE ASSESSMENT SAFERS OF THE CONTRACT OF		SERVICE INEFECTION	
I, the undersign	ned, holding a valid commis			essure Vessel Inspectors and the
State or Province	ce of Ohio		and employed by H.S.B.I	.& I. Company
		of Hartfo	rd, CT.	have inspected the
shall be liable this inspection	in any manner for any peri	sonal injury or proper	"y damage or a loss of any ki	the Inspector nor his employer nd arising from or connected with Ohio Comm., (B, 1, I) d. State, Province and Endorsement
Inspector's Sign	natues	Date	National Boar	d. State. Province and Endorsemen
THE RESIDENCE OF THE PARTY OF T			THE PROPERTY OF THE PROPERTY O	
		CERTIFICATE	OF COMPLIANCE	
relief device de	the statements made in the escribed above conforms to ions NB-65 and NB-012, cur-	Section XI and Section	and the repair, modification on III of the ASME Code and th	or replacement of the pressure se National Board rules as define
Certificate of	Authorization No.	NAME OF THE PARTY	to use the "VR" stamp expir	. 19
				. 19
9736	Repa	ir Organization	Authorized Representat	Ve Title
SALISHOUS AND STREET		NATIONAL PROGRAMME SCHOOL STATES OF		CONTRACTOR AND AND AND AND AND AND AND AND AND AND
		CERTIFICATE	OF IMSPECTION	
	med, holding a valid commic competency issued by the S	tate or Province of		ressure Vessel Inspectors, and amployed by
state that to t accordance with and NB-102, cur expressed or im Inspector nor h	the best of my knowledge an Section KI and Section II rent editions. By signing splied, concerning the repa	d belief, this repair I of the ASME Code and this certificate, near, modification or no e in any manner for a	modification, or replacement d the National Board rules as ither the inspector nor his en eplacement described in this my personal injury or property	than been made or constructed of defined in the publication TP - 1
			Commissions ND	- 9000, Onto Committee

FORM N	IS-2 / NR-1 / NVR-1 C As Required	DWNER'S REP	ORT FO	R REPAIRS OR E Code Section XI	REPL	ACEMENTS	
1. Owner Toledo	Edison Company		Date	3/31/93			
	adison Ave., Toledo, OR 4			t 1 of 2			
	Besse Nuclear Power Sta			#1			
	i. SR 2, Oak Harbor, OH 4				1-0119-	01	
	By Toledo Edison Com		Type	Repair Organization Code Stamp			
	Neme						
5501 N	I. SR 2. Oak Harbor, OH 4	3443		orization No.			-
				ration Date	7-17-5	95	
4. Identification of	Systems DH PUMP 1-2	NJECTION LINE	RELIEF VA	LVE SUS# 049-02			
5. (a) Applicable C	Construction Code ASME I	II CL2 Editi	on 19 71	Addendum N/A		Code Case N	A
(b) Applicable E	dition of Section XI Utilize	d for Repairs or R	epiacemen	ts 19 86			
(c) Design Rest	consibilities NOVA MACH	INE PRODUCTS					
	6. Identification of Comp	onents Repaired o	r Replaced	and Replacement (Compo	nents	
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
4 STUDS	NOVA	HT# 15906	N/A	3/4" X 4" LONG	1992	REPLACEMENT	NA
8 NUTS	NOVA	SCRIPT# 66H	N/A	3/4"	1992	REPLACEMENT	NA
					-		
			-				

		7. Descript		CONTRACTOR OF THE PARTY OF THE	er a mass	P. D. L. P. J. P. J. C. C.	
	ET FLANGE STUDS AND						D
	ME III CLASS 1 , 1977 ED				Bet CRITIC	M MAI ETIAL AT	
			A TOTAL CONTRACTOR AND A SECTION			and desired the second of the	
Marie Marie Company							
		THE RESERVE THE PARTY OF THE PA					
Tests Conducted		Pneumatic (NO)		nal Operating Press Test Temperature		O) Other (NO)
Pressure Relie	Pressure NA	ps:		i diat. I di riprendi con di	18.63	manuscriptor .	
				Size N/A			
	Opening Pressure N/A			Blowdown (if	applica	ble) N/A	
5	Set Pressure and Blowdov	vn Adjustments M	ade Using_	N/A	ast Mediu	B 1	
	I NA						Marie Miles Marie Constitution
Information in item	sheets in the form of li s 1 through 6 on this rep ed at the top of this for	port is included o	drawings a	ney be used, provide et, and (3) each she	ed (1) set is	eize is 8% x 11 in	n. (2)

	FORM NIS-2 /NR-1 / NX	3-1	Page 2 of 2
	9. REMARKS	Applicable Manufacturer	s Data Reports to be Attached
DNE			
	CERTIFICATE OF COMPLIA	NCE	
We certify that the statements made in the ASME Code Section XI.	Comments of the control of the contr		to the rules of
	ertificate of Authorization No. 20	Expirati	on Date 7-17-95
	ers Designee. Title Quality Control N	Banager Date Z	APRIL 1993
I, the undersigned, holding a valid common State or Province of Ohio and a have inspected the components described that to the best of my knowledge and be described in this Owner's Report in according to the control of the line of the	employed by HSBI & I CO ed in this Owner's Report during the piet, the Owner has performed exampled and with the requirements of the spector nor his employer makes any described in the Owner's Report. First sonal injury or property damage or 4-z-93 Commissions	of Boiler and Pressur of H a period 2-19-93 ninations and taken of ASME Code, Section warranty, expressed withermore, neither the	or implied, concerning the lespector nor his employ sing from or connected with
We certify that the statements made in t	CERTIFICATE OF COMPLIA		placement of the pressure
relief device described above conforms defined in publications NB-65 and NB-10	to Section XI and Section III of the	ASME Code and the	National Board rules as
Cerifficate of Authorization No. 316	to use the "VR" stamp expin	es Dec. 13	19 95
Certificate of Authorization No. 20	to use the "NR" stamp expir	es July 17	19 95
Date 19 Signed	d Toledo Edison	d Representative	Quality Control Mgr.
	CERTIFICATE OF INSPECT	204	AND THE RESIDENCE OF THE RESIDENCE OF THE PARTY OF THE PA
	The second secon		ure Veccel Inchemore and
, the undersigned, holding a valid comm	hasson issued by the National Boar		
certificate of competency issued by the	State or Province of Ohio	and employed t	by H. S. B. I. & I. CO.
of Hartford CT have inspected	the repair, modification, or replace	ment described in th	is report
on	dance with Section XI and Section	III of the ASME Code	and the National Board
By signing this certificate, neither the In- repair, modification or replacement desc liable in any manner for any personal in this inspection.	cribed in this report. Furthermore, t	neither the Inspector	nor his employer shall be
	Commission	ns	
Authorized Inspector's Signature	Deste		Province and Endonsements

FORM NI	S-2 / NR-1 / NVR-1 C As Required	by the Provisions			REPL	ACEMENTS	
1. Owner Toledo	Edison Company		Date	4/6/93			enicana.
	dison Ave. Toledo, OH		Sheet 1 of 2				
	Besse Nuclear Power Sta		Unit	#1			
			MWO# 1-91-0121-00 Repair Organization F O No. Job No. etc.				
	SR 2 Oak Harbor, OH 4		Tune	Repair Organization Code Stamp			
	By Toledo Edison Com						***************************************
5501 N	SR 2. Oak Harbor, OH 4	3449	Authorization No. 20				
			Expir	ation Date	7-17-9	5	-
4. Identification of	Systems HIGH PRESSU	RE INJECTION S	US# 052-0	1	-		
(b) Applicable E	onstruction Code ASME I	d for Repairs or R				Code Case N	Δ
	6. Identification of Comp	onents Repaired o	or Replaced	and Replacement (Compo	nents	
Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board MO.	Other Identification/ Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASME Code Stampe
4 STUDS	VITCO	HT# 45916	NA	3/4"-10 X 4-3/4"	1988	REPLACEMENT	N/A
8 NUTS	VITCO	HT# 844833	NA	3/4*-10	1968	REPLACEMENT	N/A
	UDS OF SAFETY VALVE		tion of Work		E 630 T	YPF	
MATERIAL, BUILT T	TO ASME SECT. BIL DIV. I WITH SA-194 GRADE BM D NUTS WERE REPLACE	1977 EDITION TO TYPE MATERIAL	BULT TO	4 ADDENDA, CL. 1 SAME CODE AS ST	UDS. E	TING INLET NUTS	
Pressure Relie	Hydrostatic (NO) Pressure NA Valves: Service NA Opening Pressure NA			nal Operating Press [est Temperature SizeN/A Blowdown (if	NA	°F)
	Set Pressure and Blowdo	wn Adjustments M	lade Using	NA			
	at N/A			4.70	oe: Mediu		

MOTE: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8% 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 / N	D48-1	Page 2 of 2
ONE	9. REMARKS	Applicable Manufact	turers Data Reports to be Attached
We certify that the statements made in the ASME Code Section XI.	n the report are correct and this	AND THE RESERVE OF THE PARTY OF	rms to the rules of
	Certificate of Authorization No		ration Date 7-17-95
Signed Robert Derror Owner or Ow	where Designee, Trile Quality Contr	ol Menager Date_	6 APRIL 19 93
	CERTIFICATE OF INSERVICE	INSPECTION	and the control of th
I, the undersigned, holding a valid com-	mission issued by the National Bo	ard of Boiler and Pre	ssure Vessel Inspectors in the
State or Province of Ohio and have inspected the components descri	bed in this Owner's Report during	the period Z - ZA-	Hartigra CT
that to the best of my knowledge and b	belief, the Owner has performed e	xaminations and take	n corrective measures
described in this Owner's Report in acc	cordance with the requirements of	the ASME Code, Se	iction XI.
By signing this certificate, neither the Ir	nemering nor his amniouse makes	any warranty everage	sed or implied concerning the
examinations and corrective measures	described in the Owner's Report	Furthermore, neither	r the inspector nor his employ
shall be liable in any manner for any pe	ersonal injury or property damage	or a loss of any kind	arising from or connected with
this inspection.			100
1019 Port	4-6-93 Commission	ne NB10992 (400)	odo Conud
Inspector's Signature	Date	National Board, State	Province and Endorsements
We certify that the statements made in relief device described above conforms defined in publications NB-65 and NB-	s to Section XI and Section III of t	pair, modification, or	replacement of the pressure the National Board rules as
Cerifficate of Authorization No. 316	to use the "VR" stamp ex		19.95
Certificate of Authorization No. 20	to use the "NR" stamp a	cpires July 17	19 95
Date 19 Signe	6d Toledo Edison Repair Organization Author	Wicesi Herpresentative	Quality Control Mgr.
	CERTIFICATE OF INSPE	ECTION	
, the undersigned, holding a valid com	rnission issued by the National B	oard of Boller and Pro	essure Vessei Inspectors, and
certificate of competency issued by the	e State or Province of Ohio	and employ	ed byH. S. B. I. & I. CO.
of Hartford, CT have inspects	ed the repair, modification, or repl	scement described in	n this report
	that to the best of my beautains	and baliat this remain	modification or replacement
on 19 and state that been made or constructed in according as defined in the publication NE-	ordance with Section XI and Secti	ion III of the ASME C	ode and the National Board
By signing this certificate, neither the in repair, modification or replacement de- liable in any manner for any personal in this inspection.	scribed in this report. Furthermore	rs, neither the inspec	tor nor his employer shall be
	Commis	sions	
Authorized Inspector's Signature	Date		ele, Province and Endorsements

1. Owner Toledo	Edison Company		Date	4/6/93			
	dison Ayen Toledo, OH 4			1 of 4			
				*1			
	Besse Nu lear Power Sta				0050	20	
5501 N	SR 2 Oak Harbor, OH 4	3449	-	MWO# 1-91 Repair Organization			
 Work Performed 	By Toledo Edison Comp	pany	Туре	Code Stamp		(R	*****
5501 N	SR 2 Oak Harbor, OH 4	3449	Autho	rization No.	- 2	80	-
	Againess		Expir	ation Date	7-17-9	5	
a Identification of	Systems DH COOLDOW	VN LINE RELIEF T	O EMERG.	SUMP DH 4849 S	US# 04	19-02	
5. (a) Applicable C	onstruction Code ASME II	I CL2 Editi	on 19 71	Addendum NA		Code Case N/	A
(b) Applicable E	dition of Section XI Utilize	d for Repairs or R	eplacement	ts 19 86			
	onsibilities NOVA MACH				co		-
(c) Design nesp					-		MINISTER THE
	6. Identification of Comp	onents Repaired o	or Replaced	and Replacement (Compoi	nents	
Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.	Built	Repaired Replaced or Replacement	Stamp
DH 4849	LONERGAN	#7704435-104	N/A	RELIEF VALVE	1982	REPLACEMENT	Yes
DH 4849	LONERGAN	#304400-104-1	N/A	RELIEF VALVE	1976	REPLACED	Yes
8 STUDS	NOVA	HT# 23305	NA	3/4"-10 X 6"	1990	REPLACEMENT	N/A
8 STUDS	NOVA	HT# 35249	N/A	3/4°-10 X 5°	1992	REPLACEMENT	N/A N/A
32 NUTS	VITCO	HT# 844833	N/A	3/4*-10	1988	MEPLACEMENT	PUA
H-4849 WAS REPL	ACED BY A LIKE-FOR-LI	7. DescriptivE SPARE, OF W	THICH WAS	PRESSURE TESTE	D PRE	OR TO INSTALLA	non.
	TLET STUDS WERE REP						
THE RESERVE THE PERSON NAMED IN COLUMN 2 I	CED WITH ASME SA194	GR SM MATERIA	L (NOTE:	INLET STUDS ARE	8- LO	NG AND OUTLET	5100
ARE 5" LONG).	The second secon				_		
	The second secon						
	AND THE RESIDENCE OF THE PARTY	mental and the contract of the					Military Court of the Sales
	2101	D(NO)	Nom	inal Operating Press	uira ()	(O) Other (NO	1
		Pneumatic (NO)		Test Temperature		*F	
8. Tests Conducted	12 C (12 C) 12 C 12	norman pro-					
	and the second s						
Pressure Relie	f Valves:			Size 4 X 6"			
Pressure Relie	of Valves: Service WATER	4		Size 4 X 6" Blowdown (if	applica	bie) NWA	
Pressure Relie	of Valves: Service <u>WATER</u> Opening Pressure 320 PS		fade Usino	Blowdown (if	applica	ble) NM/A	
	of Valves: Service WATER		fade Using	Blowdown (if	applica	and the second second second second second	

	Page 2 of 4
9. REMARKS	Applicable Manufacturers Data Reports to be Attached
RM NV-1 FOR REPLACEMENT RELIEF VALVE IS ATTACHED.	
CERTIFICATE OF COMP	LIANCE
We certify that the statements made in the report are correct and this the ASME Code Section XI.	replacement conforms to the rules of
Type Code Symbol NR Certificate of Authorization No	20 Expiration Date 7-17-95
Signed Robert & Dorollo Quality Contr	rol Manager Date 7 APAIL 1943
CERTIFICATE OF INSERVICE	INSPECTION
the undersigned, holding a valid commission issued by the National Botate or Province of Ohio and employed by H.S.B.I. & I Chave inspected the components described in this Owner's Report during that to the best of my knowledge and belief, the Owner has performed edescribed in this Owner's Report in accordance with the requirements of	pard of Boiler and Pressure Vessel inspectors in the CO of Hartford CT the period 2-19-91 to 9-9-3, and state examinations and taken corrective measures
By signing this certificate, neither the Inspector nor his employer makes examinations and corrective measures described in the Owner's Report shall be liable in any manner for any personal injury or property damage this inspection. Commission of the personal support o	Furthermore, neither the inspector nor his emplo
CERTIFICATE OF COMP We certify that the statements made in this report are correct and the re relief device described above conforms to Section XI and Section III of defined in publications NB-65 and NB-102, current editions.	apair, modification, or replacement of the pressure
Cerifficate of Authorization No. 316 to use the "VR" stamp at	xpires Dec. 13 19 95
Certificate of Authorization No. 20 to use the "NR" stamp e	xpires July 17 19 95
Date 19 Signed Toledo Edison Auth-	Quality Control Mgr. orized Representative Title
CERTIFICATE OF INSP	ECTION
the state of the s	
pertificate of competency issued by the State or Province ofOhio	and employed by H. S. B. I. & I. CO.
Description of the competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competency is a competency in the Competency is a competency in the Competency is a competency in the Competency is a competency in the Competency is a competency in the Competency is a competency in the Competency in the Competency is a competency in the Competency in the Competency is a competency in the Competenc	and employed by M. S. B. I. & I. CO. Iscement described in this report and belief, this repair, modification, or replacement to III of the ASME Code and the National Board
Description of the competency issued by the State or Province of the Competency issued by the State or Province of the Competency issued by the State or Province of the Competence of the Compe	and employed by M. S. B. I. & I. CO. Iscement described in this report and belief, this repair, modification, or replacement in the ASME Code and the National Board is any warranty, expressed or implied, concerning the present of the Inspector nor his employer shall be
I, the undersigned, holding a valid commission issued by the National B certificate of competency issued by the State or Province ofOhioOhioOhioOhioOhioOhioOhioOhio	and employed by H. S. B. I. & I. CO. Iscement described in this report and belief, this repair, modification, or replacement in the ASME Code and the National Board is any warranty, expressed or implied, concerning the present in the Inspector nor his employer shall be

			Page 14
ORIA NV-1 N CERTIFICATE HOLD	the Provisions of the	ABME COOK, PETRON IN DIVI	PAGE 3 of
Menufactured by J.Z.Lonergen C Menufactured for Toledo Edison	o., 10050 Sandme	yer Lane, Philadelphia, PA	19115
Manufactured for Toledo Edisor Location of Installation Toledo Edi	Name and Address of Purch	ese Station 5501 M. State	t. 2 Oak Rarbor
Location of Installation Tolego Sua	(Name and Address	M/A 1982	Ouro earea
024360 A26	(Drawing No.)	(Mer's Acquire 15-104 Spare	11/40 APSV-4849
VBIVE IMANINI NO. Senes No!	es 2	IN CONDISSEDIO MONORE, C.	NAME OF TAXABLE PARTY OF TAXABLE PARTY.
C subsective N to Hell to Visit 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; Pourer Actuated	& Chatter Size	6
Online Size 6.38	Nominal Inlet Size	inch	breth
ag - Inch	THE PERSONNELS AND PERSONNELS OF THE PERSONNELS	450	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN
Set Pressure (PSIG) 320	3 /9	% Overpressure Stowdown (PSIG)	9-6
Stamped Capacity		425	
Hydrostatic Test (PSIO) Inlet	480	Outlies (Applicable to valvee for all	
Pressure Reseiving Pieces	Serial No. or Identification	bisseriel Specifical Type or t	37898
was find	29-k	ASS 84-351 Q	. CP6M
Backs	The same of the sa	AFRE SA-351 G	A

	ES-BUILTING BUILTIN	AND CONTRACTOR AND ADDRESS OF THE PARTY OF T
and approximate the second contract of the	The same is the same of the sa	ASSE SA-351 Or CPSM
Body	78 529 -A	ASSE SA-351 OF CPSM
Bonnet SXXXXXX	F4676-19	X/A
Support Rods	N/A	ASME SA-351 Or. CYSN
Péaszle	1 01875 0 500 54:52	ASS 84-479 Type 316
Diec	766673 HYYK-12	ASSE BA-479 TYPE 310
Spring Washers	3000 ()	ABE BA-479 Type 316
Adjusting Screw	13626	ASME SA-479 TYPE 310
Saindio	ALD 740	APS/ A-276 Type 316
Soring	SETTING OF CONFORMANCE	VAME 84-745
Sotion Cap Bolts	Cartificate of Conformance	ADM 64-329 OF 99
Other Places Body Stude	Certificate of Conformance	Asses SA-198 OF. 0
Body Muts	CRITICE OF CO. MEDICALISM.	ASSE 84-479 Type 315
Oag Scrow	78 600	ABB 64-479 1770 310
Ming Pin Screv	63 23e	ABE M-351 OF: Gross
Cap	Comta ficate of Conformance	人間据 和A-1,088
15 may 1 115	May pay you be no my	200

se Blowdown not specified by Code

EDISON

Lime \$4 (CHE) denotes customer purchase order number

SE7 08 1982

QUALITY ENGINEERING

Telede Edisen	Editors
AS: ROVED WITH COMMENTS 2. INCOMPANY OF THE TOTAL AS: ROVED WITH COMMENTS 2. INCOMPANY OF THE TOTAL OF THE TOTAL OF THE THE TOTAL OF THE THE THE THE THE THE THE THE THE THE	51°, (2) indormation Lumber of sheets is

* Suppliamental sheets in form of lists, sketches or drawings may be to Berns 1-2 on this Date Repart is included on easi sheet, and recented at top of this form.

(16/77)

ABBEL 366 E. 47th St., Nov. Yerk, M.Y. 10017 This form (8000012) may be absorbed from the One

PAGE 4 of 4

	CERTIFICATE OF COMPLIANCE	. 1
We certify that the statements made of the ASME Code for Nuclear Power Cude Case No. 1555 & 1574 Date 9-16-82 Signed J Our ASME Certificate of Authorizing symbol expires Sept. 10, 19	this report are correct and that this valve conforms to the rules of construction of Components, Section III, Div. 1. 1971 Edition, Andered: 12/31/71 (Details) P. Longran Co. by T. A. Nichaey IN Certificate Molect: N-2359 To use the MY	D/1
sumbol expires	£ -	ners and the last

Contracting and the second sec	1000年100日 1000年100日 1000日 1
SHARM ON THE PROPERTY AND ADDRESS OF THE PROPERTY OF THE PROPE	CERTIFICATION OF DESIGN
Design information on file at	.E.Lonergan Co. 10050 Sandmayer Lane, Phila., P/ 19115
Stress analysis report (Class) or	(A) DLI LIA 61 consequences and consequences and consequences are consequences and consequences and consequences are consequences and consequences are consequences and consequences are consequences.
Design specifications centified by	Fachous V Wilk
mer disease Philips y make the comment	AND ADDRESS OF THE PARTY OF THE
Stress report certified by' PE State W/A	H/A Reg No. K/A
Signature not required-list ne	me only.

ı	CERTIFICATE OF SHOP INSPECTION
BALL SERVICE CONTRACTOR CONTRACTO	I, the undersigned, holding a velid commission issued by the National Board of Bollar and Pressure Vessel Inspectors and the State or Province of PRIME. ———————————————————————————————————
ď	



SEP 28 1982

QUALITY

Market Commence

1. Owner Toled	o Edison Company		Date	4/28/93				
300 M	ladison Aye., Toledo, OH	43652	Shee	t 1 of 3				
	-Besse Nuclear Power Sta		Unit	#1				
	N. SR 2. Oak Harbor, OH 4		MWO # 1-91-0602-00 Repair Organization P.O. No., Job No., etc.					
	d By Toledo Edison Com		Type	Repair Organization Code Stamp				
			-	prization NO.			75	
22011	N. SR 2. Oak Harbor, OH 4	1940						
				ation Date			-	
4. Identification of	Systems STEAM GENE	RATOR 1-2 STEAM	M ANNULU	S DRAIN VALVE (N	(5 883)			
5. (a) Applicable (Construction Code ASME I	II CL2 Editi	on 19 <u>71</u>	Addendum W72		Code Case N	2	
(b) Applicable	Edition of Section XI Utilize	d for Repairs or R	epiacemen	ts 19_86				
(c) Design Res	ponsibilities VELAN ENGI	NEERING						
		The seal of the se						
	6. Identification of Comp	onents Repaired o	r Replaced	and Replacement (Compo	nents	T	
Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board MO.	Other Identification/ Jurisdictional NO.		Repaired Replaced or Replacement	. ASME Code Stemped	
VALVE	VELAN	4-4	No	MS 883	1974	REPLACED	Yes	
VALVE	VELAN	522-7	No	MS 883	1975	REPLACEMENT	Yes	
					-			
					-			
	AND AND ADDRESS OF THE PARTY OF	7. Descript	tion of Work	(-			
REPLACED EXIST	NG 1 1/2" W.B. GATE VA	LVE WITH A NEW	1 1/2" W.E	B. GATE VALVE.				
		98 15 16 16 4 18 5 18 18 18 18 18 18 18 18 18 18 18 18 18						
AND THE PERSON NAMED OF TH								
8. Tests Conducte	d: Hydrostatic (NO) Pressure 870	Pneumatic (NO)		nal Operating Press est Temperature		Other (YE	S)	
Pressure Reli	ef Valves:							
				Size NA				
	Opening Pressure N/A	Manager and the Control of the Contr		_ Blowdown (if a	applica	DIE) NA		
	Set Pressure and Blowdon	wn Adjustments M	ade Using_	N/A	er Bedin	E)		
	st_N/A		()	JOHN CLON)				
Information in ite	l sheets in the form of 1: ms 1 through 6 on this rej ded at the top of this for	port is included o	drawings a n each shee	my be used, provide c, and (3) each she	d (1) a	size is 8% x 11 in numbered and the r	umber	

____ Page 17 FORM NIS-2 /NR-1 / NVR-1 Page 2 of 3 9. REMARKS Applicable Manufacturers Data Reports to be Attached * TESTS CONDUCTED: AN INSERVICE PRESSURE TEST/ VT-2 (PER CODE CASE N-416) CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASMÉ Code Section XI. Type Code Symbol NR Certificate of Authorization No. 20 Expiration Date 7-17-95 Robert C Donnellon Quality Control Manager Date 28 APRIL 1993 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 HSRISICO of have inspected the components described in this Owner's Report during the period 4/22/92 to 4/25/93, 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. 2 N. Acomb Commissions NB-9557-N, I, OHIO National Board, State, Province and Endorsements CERTIFICATE OF COMPLIANCE

We cartify 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.

Cerifficate of Authorization No.	316	to use the	"VR" stamp expire	ns Dec. 13	19 92
Certificate of Authorization No.	20	to use the	°NR" starmp expire	us July 17	19_95
Date, 19	Signed Tole	do Edison r Organization		1 Representative	Quality Control Mqr.

CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors, and

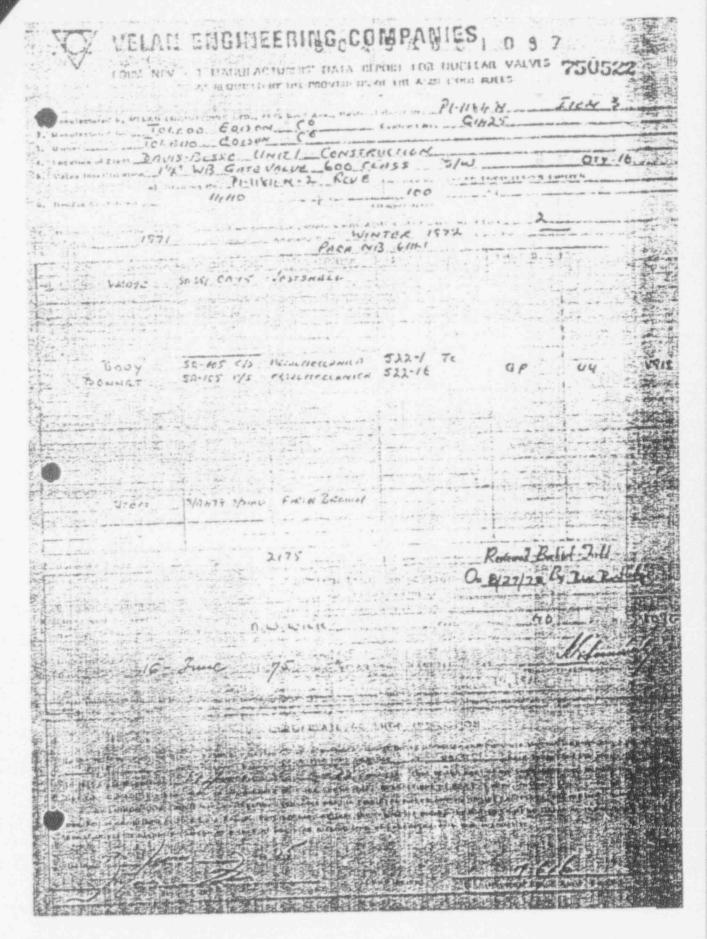
certificate of competency issued by the State or Province of Ohio and employed by H. S. B. I. & I. CO.
of Hartford, CT have inspected the repair, modification, or replacement described in this report
on 19 and state that to the best of my knowledge and belief, this repair, modification, or replacement 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 land arising from or connected with this inspection.

> Commissions National Board, State, Province and Endorsements

Authorized Inspectors Signature

Date



1 Owner Toledo	Owner Toledo Edison Company Date			September 4, 1992					
300 Me	dison Ave., Toledo, OH	43652	Shae	Sheet 1 of E					
2 Plant Devis-	Beese Nuclear Power Str	etion	Unit #1						
5501 N. SR 2, Oak Harbor, OH 43449				MWO# 1-91-1118-00 Pepel Organization P.D. No., Job No., etc.					
-	XIII.PMI								
							-		
5501 N	I. SR 2, Oak Harbor, OH 4	13469		orization NO.					
			Expir	ation Date	7-17-	96 / 12-13-92	-		
4 Identification of	Systems PRESSURIZE	R CODE SAFETY V	VALVE S/N	56264-00-0006 SU	\$# 084	04			
(b) Applicable E	construction Code ASME	ed for Repairs or Re	episcemen		.72	Code Case N	A		
(c) Design Resp	consibilities CROSEY VA	LIVE AND GAGE C	OMPANY	THE RESERVE OF THE PERSON OF T			at the same of the		
	6. Identification of Comp	onents Repaired o	or Repisced	and Replacement (Compo	nents			
		The second secon	T	13.000	T				
Hame of Component	Eame of Manufacturar	Manufacturer's Serial BO.	Metional Board MO.	Other Identification/ Jurisdictional NO.	Built	Repaired Replaced or Replacement	ABKE . Code Stamper		
DISC INSERT	CROSBY	N84214-36-0006	N/A	HT# 90596	1992	REPLACEMENT	No		
NOZZLE	CROSBY	N94212-32-0003	N/A	N/A	1992	REPLACEMENT	No		
	WING PARTS DURING RI NOZZLE S.) DISC PIN AJ		SURSZER C	AND DESCRIPTION OF THE PERSON	E S/N	56264-00-0005:			
Pressure Relie	Pressure N/A	en Adjustments Ma	ade Using_	Size 4 x 6 Blowdown (If a	N/A	*F ble) N/A			

Authorized inspector's Signisture



CROSBY VALVE B GAGE COMPANY

W R ENTHAM, MASS

O.C.-392 Form N-2

FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES. As Required by the Provisions of the ASME Code, Section III, Division 1

Manufactured and certified by	(name and addr	pany 43 Kentrick St. Whenthan ess of certificate holder)	
Manufactured for		COMPANY CLEVELAND, OH	44101-4608
	(name and acor	ess of purchaser)	
Location of installation	The second secon	D. DAVIS-BESSE POWER STA.	OAK HARBOR, OH43449
	(name and addr		1992
Type D6-C-56264-1 REV.0	ASME SA182 GR F316	80,120 PSI (tensile strength) (CRN)	(year built)
ASME Code, Section III	1971 WINIER (adde	nda) (ciasx)	(Code Case no.)
Remarks:	Const. Spec. (DN. 2 only)	(No.)	
		- Dia. ID (ft. & in.) - Length for each item of this report:	overall (FL & In.)
When applicable, Certificate Ho	National Board No.	for each item of this report: Part or Apurtenance	National Board No. In Numerical Order
When applicable, Certificate Ho Part or Appurtenance Serial Number	olders' data reports are attached	for each item of this report: Part or Apurtenance Serial Number	National Board No.
When applicable, Certificate Ho Part or Appurtenance Serial Number — (1) N94212-32-0003	National Board No.	for each item of this report: Part or Apurtenance Serial Number (11)	National Board No.
When applicable, Certificate Ho Part or Appurienance Serial Number 1) N94212-32-0003	National Board No.	for each item of this report: Part or Apurtenance Serial Number	National Board No.
When applicable, Certificate Ho Part or Appurienance Serial Number 1) N94212-32-0003	National Board No.	for each item of this report: Part or Apurtenance Serial Number (11)	National Board No.
When applicable, Certificate Ho Part or Appurlenance Serial Number — (1) N94212-32-0003 (2)	National Board No.	Part or Apurtenance Serial Number (11)	National Board No.
When applicable, Certificate Ho Part or Appurlenance Serial Number — (1) N94212-32-0003 (2) (3)	National Board No.	Part or Apurtenance Serial Number (11) (12)	National Board No.
When applicable, Certificate Ho Part or Appurtenance Serial Number — (1) N94212-32-0003 (2) (3)	National Board No.	Part or Apurtenance Serial Number (11) (12) (13)	National Board No.
Part or Appurienance Serial Number (1) N94212-32-0003 (2) (3) (4)	National Board No.	Part or Apurtenance Serial Number (11) (12) (13) (14)	National Board No.
Part or Appurienance Serial Number (1) N94212-32-0003 (2) (3) (4) (5)	National Board No.	Part or Apurtenance Serial Number (11) (12) (13) (14) (15)	National Board No.
Part or Appurienance Serial Number (1) N94212-32-0003 (2) (3) (4) (5) (6)	National Board No.	Part or Apurtenance Serial Number (11) (12) (13) (14) (15) (16)	National Board No.
When applicable, Certificate Ho	National Board No.	Part or Apurienance Serial Number (11) (12) (13) (14) (15) (16) (17)	National Board No.

Form H-2

FORM N-2 (back)

Mfr. Serial No. N94212-32-0003

CERTIFICATION OF DESIGN
Design specification certified by JOHN W. MERCHANT P.E. state VA Reg. No. 4418 (when applicable)
Design report* certified by (when applicable)
CERTIFICATE OF SHOP COMPLIANCE
We certify that the statements made in this report are correct and that this COMMINIO NOZZIE conform to the rules of construction of the ASME Code, Section III.
N-1877 Expires 9-30-92
Date 57/5/5Z Name Orosby Valve & Gage Company Signed Could representative)
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 MSSACTEROTTS and employed by *Coo Rollow of NOWNOO MA have inspected these items described in this data report on 3 1/2 and state that to the best of my knowledge and belief, the Certificate Bolder has fabricated these parts or state that to the best of my knowledge and belief, the Certificate Bolder has been authorized for stamping
appurtenances in accordance with the ASME Code, Section iii. Least per any varianty, expressed or implied,
By signing this certificate, neither the inspector nor his amployer concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer concerning the equipment described in this data report.
Date 5 77 Signed 191 5 71. f. fr. Commissions MA 1907
Date (Nat'l Bd (incl. endorsements) state or prov. and no.)

*Ankwright Mutual Insurance Company

CROSBY CROSBY VALVE & WAVE

WRENTHAM.: 485 Page 23

Pa 5. f 5 Q.C .- 70-58

CROSBY FACTORY ORDER NO .: N2769700

TE REVISED 06 MAY 1992

CROSBY ITEM NO.: 001

CUSTOMER ORDER NO.: 3 034061 D92

CUSTOMER ITEM NO.: 001

PO SOBYOLIOFE PG ____OF _C

CERTIFICATE OF AUTHORIZATION NO. N-1877 EXPIRES: 9/30/92

CERTIFICATE OF COMPLIANCE

The Crosby Valva & Gage Company hereby certifies that
Part DISC INSERT . Part No. N94214
Seriel No. (if applicable) N94214-36-0006 +0007 . meets the
requirements of the Customer Purchase Order, Item Description,
Material Specification, Customer Specification, applicable Code
Edition and Addends, Class, applicable drawing; and that all
required tests, and inspections, have been performed; and the item
is interchangeable with the same item supplied in the original
equipment. DWG. # DS-C-56264 Rev. A. O'Processed in accordance
With QC-110 Rev. 18. Applicable Code
ASME Section III 1971 Edition Winter 1972 Addends, Class 1

Frosty QA Records Specialist	April 16, 1992
Prosby QA Records Specialist	Date
or geanette m. Moblies OA Records Specialist	06 MAY 1992
QA Records Specialist	Date

1. Owner Toledo Edison Company Name 300 Madison Aye, Toledo, OH 43652 2. Plant Davis-Besse Nuclear Power Station Name 5501 N. SR 2. Oak Harbor, OH 43449 Address 3. Work Performed By Toledo Edison Company Name 5501 N. SR 2. Oak Harbor, OH 43449 Address			Shee Unit	#1 AVO/93 1 1 of #2 PSP. #1 MWO 1-91 Repair Organization Code Stamp prization No.	-1535- P.O. No	01 Job No., etc.	
5. (a) Applicable C (b) Applicable E	Systems REACTOR CO construction Code ANSI B: dition of Section XI Utilize consibilities ITT GRINNEL	31,1 Edit	ion 19 <u>67</u>		7-17-		
	6. Identification of Comp	onents Repaired	or Replaced	and Replacement (Compo	nents	
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
RCP - 3-6 N/S	GRINNELL	15102	N/A	C-305 HSS5	NA	REPAIRED	N/A
	RAULIC SNUBBERS C-3 IANGERS RCP-3-5E/W A		RE REMOV	ED, REBUILT, FUN	стюн	ALLY TESTED AN	ID .
	- Legal Management of the Control of						
Pressure Relie S C		psi	ade Using_		N/A	°F ble) WA	
Information in items	sheets in the form of li s 1 through 6 on this rep ed at the top of this for	port is included o	drawings a	estion) ay be used, provide t, and (3) each she	d (1) a	size is 8% x 11 in numbered and the n	(2) umber

	FORM NIS-2 /NF	I-1 / NVR-1		Page 2 of 2
	9. REMAR	KS Applic	able Manufacture	re Data Reports to be Attached
				Provide an analysis of the provided by the second s
			5	
				SSMARRINGER HISTORICA OF STRUCTURE SALES OF STRUCTURE OF
We certify that the statements made in the rithe ASME Code Section XI. Type Code Symbol NR Certific Signed 7 Last 2 December or Owners Cowners Counter or Owners Counter Owners Counter or Owners Counter Owners Cou	cate of Authorization	this No. 20	Expirati	on Date 7-17-95 / 677/12 19 9 >
CF	RTIFICATE OF INSE	RVICE INSPECTI	ON	THE RESIDENCE PROTECTION OF A STREET, AND ADDRESS OF A STREET, COMMAND ASSESSMENT AND ADDRESS OF A STREET, AND ADDRESS OF
I, the undersigned, holding a valid commission State or Province of Ohio and emphase inspected the components described in that to the best of my knowledge and belief, described in this Owner's Report in accordance By signing this certificate, neither the Inspections and corrective measures described in any manner for any personative inspection.	on issued by the National Council of the Owner's Report the Owner has perfornce with the requirement for nor his employer raibed in the Owner's lated in the	during the period med examination ents of the ASMI makes any warran amage or a loss of the ASMI makes are warranted amage or a loss of the ASMI makes are warranted amage or a loss of the ASMI makes are warranted amage or a loss of the ASMI makes are warranted amage or a loss of the ASMI makes are warranted amage or a loss of the ASMI makes are warranted amage.	ler and Pressured States of Harmonian States of Harmonian Section 19 April	to <u>4/29/93</u> , and state corrective measures on XI. or implied, concerning the le Inspector nor his employer
V				TAXABLE OF A SERVICE PROPERTY OF THE SERVICE OF THE
We certify that the statements made in this relief device described above conforms to S defined in publications NB-65 and NB-102.	section XI and Section current editions.	the repair, modi	Code and the	National Board rules as
Cerifficate of Authorization No. 316	to use the "VH" st	amp expires	ALL DESIGNATION IN CONTRACT OF THE PARTY OF	19 95
Certificate of Authorization No. 20	to use the "NR" st	amp expires	July 17	19_95
Date 19, Signed To	oledo Edison	Authorized Repre	eentative	Quality Control Mgr.
	CERTIFICATE OF	INSPECTION	PARTICIPATION OF THE PARTICIPA	
I, the undersigned, holding a valid commiss			oller and Press	ure Vessel Inspectors, and
certificate of compatency issued by the Sta	te or Province of	Ohio s	and employed	by H. S. B. I. & I. CO.
of Hartford, CT have inspected the	repair, modification,	or replacement of	described in th	is report
on 19 and state that the has been made or constructed in accordant rules as defined in the publication NB-65 are	ce with Section XI an	d Section III of th	, this repair, m	odification, or replacement and the National Board
By signing this certificate, neither the insperence repair, modification or replacement describiliable in any manner for any personal injury this inspection.	ed in this report. Furt	hermore, neither	the inspector	nor his employer shall be
		ommissions	anidamenta > territoria	
Authorized Inspector's Signature	Dese	Nestio	onel Board, State.	Province and Endorsements

Owner Toledo	Edison Company		Date	4/13/93			
300 Ma	dison Ave., Toledo, OH 4	3652	Shee	t 1 of 4			
Plant Davis-	Besse Nuclear Power Sta	tion	_ Unit _	#1			
	SR 2. Oak Harbor, OH 4			MWO# 1-91	-1616-0	lob No. etc	
	By Toledo Edison Comp		Туре	Code Stamp			
				rization N0.			
5501 N	SR 2, Oak Harbor, OH 4	3445					
			EXPI	ation Date	1-11-95	2	
. Identification of	Systems Containment S	Spray System St	JS# 061-01		i della contractiva di		
(a) Applicable C	onstruction Code ASME I	II CL2 Editi	on 19 71	Addendum No		Code Case N/	A
				10.96			
(b) Applicable E	dition of Section XI Utilize	d for Repairs or H	eplacement	IS 19 00			
(c) Design Resp	onsibilities Toledo Ediso	n					
			- Deple	and Denissament	Omnor	ants	
	6. Identification of Comp	onents Hepaired o	Meplaced	and neplacement	Johnpor		
ame of Component	Name of Hanufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	A.Si Cod Stag
Studs	Nova Machine	YK2	N/A	N/A	1989	Replacement	N
Studs	Nova Machine	24127	N/A	N/A	1992	Replacement	N
Stude	Velan Inc	V630-T66	N/A	N/A	1988	Replacement	N
Nuts	Vitco Nuclear	66H	NA	NA	1988	Replacement	N
Nuts	Nova Machine	39605	N/A	N/A	1988	Replacement	N
Nuts	Nova Machine	616275	NA	N/A	1993	Replacement	N
		7. Descrip	tion of Worl	k	1.15 - 1		
	d nuts for flanges on pip			33A-HCB-3-7 and or	blind i	riange	
wnstream of vah	e CS3 (2" tap off of spo	ol 33A-HCB-3-6).					
			Marie Company of the				
Tests Conducte	d: Hydrostatic (NO)	Pneumatic (NO)		inal Operating Press)
	Pressure NA	psi		Test Temperature_	NA_	°F	
Pressure Reli							
	Service_N/A			Size_N/A_	Market State Committee		
	Opening Pressure N/A			Blowdown (if	applica	ble) N/A	
	Set Pressure and Blowdo	wn Adjustments N	Made Using	NA	est Mediu	6	
				1.7	William Property of the		
	at N/A			Location			

	FORM NIS-2 MR-1 / NO	A-T	Page 2 of 2
	9. REMARKS	Appäcable Manufacturers	Data Reports to be Attached
/A			
A STATE OF THE STA			
	CERTIFICATE OF COMPLI	ANCE	
We certify that the statements made in the ASME Code Section XI.	American and a second second		o the rules of
Type Code Symbol NR Ce	rtificate of Authorization No2	2 Expiration	n Date 7-17-95
Signed Rolut Commer or Chrise	Quelity Control	Manager Date 13	APRIL 19 93
	CERTIFICATE OF INSERVICE IN		
I, the undersigned, holding a valid commis	ssion issued by the National Bos	rd of Boiler and Pressure	
State or Province of Ohio and enhance inspected the components described that to the best of my knowledge and belified described in this Owner's Report in according to the components of the co	d in this Owner's Report during to ef, the Owner has performed axi	he period <u>7/28/92</u> to eminations and taken co	rrective measures
By signing this certificate, neither the Inspexaminations and corrective measures deshall be liable in any manner for any persential inspection.	scribed in the Owner's Report.	Furthermore, neither the	Inspector nor his employe
		0	
Inspector's Signature	Commission	National Board, State, Prov	TOHTO
We certify that the statements made in the relief device described above conforms to defined in publications NB-65 and NB-10.	 Section XI and Section III of the 2, current editions. 	ASME Code and the N	cement of the pressure lational Board rules as
Ceritficate of Authorization No. 316	to use the "VR" stamp exp	Tes	measured 18 mm
Certificate of Authorization No. 20	to use the "NR" stamp exp	ires July 17	19 95
Date19Signed	Toledo Edison Repair Organization Authorit	sed Representative	Guality Control Mgr. Title
	CERTIFICATE OF INSPEC	TION	
I, the undersigned, holding a valid commi			e Vessel Inspectors, and
certificate of competency issued by the S	State or Province of Ohio	and employed by	H. S. B. I. & I. CO.
of Hartford, CT have inspected	the repair, modification, or replac	sement described in this	report
on19 and state the has been made or constructed in accord rules as defined in the publication NB-65	ance with Section XI and Section	id belief, this repair, morn till of the ASME Code s	dification, or replacement and the National Board
By signing this certificate, neither the Inspection, modification or replacement describable in any manner for any personal injuries inspection.	ribed in this report. Furthermore	neither the inspector no	or his employer shall be
	Commissi	one	
Authorized Inspector's Signature	Continues	National Board, State, Pr	rownce and Endorsements

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

1. Owner Toledo	Edison Company		Date		4/13/93		WESSET	
	dison Ave., Toledo, OH 4		Shee	t 3 of	4			
				#				
	Sesse Nuclear Power State					1-1616-0	00	
	SR 2 Oak Harbor, OH 43				AWO# 1-91 Organization			
	By Toledo Edison Comp							ACCORDING TO THE OWNER.
5501 N.	SR 2. Oak Harbor, OH 4	3449			٧٥			
			Expir	ation Dat	0	7-17-95	5	
4. Identification of S	Systems Containment S	pray System SUS	# 061-01					
5 (a) Applicable Co	onstruction Code ASME II	CL2 Edition	on 19 71.	Addend	lum No		Code Case N	/A
	dition of Section XI Utilize							
(c) Design Resp	onsibilities TOLEDO EDI	SION						
	6. Identification of Comp	onents Repaired o	r Replaced	and Rep	lacement (Compon	ents	
Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Identi	ther fication/ stional NO.	Year Built	Repaired Replaced or Replacement	Code Stamped
Nuts	Nova Machine	30404	NA		N/A	1993	Replacement	No
Nuts	Allied Nut & Boft	28969	N/A		N/A	1993	Replacement	No
				-		-		
				-		-		+
				-		-		
		REMA	ARKS				AND DESCRIPTION OF THE PARTY OF	
	A COMPANY OF THE PROPERTY OF T							
			CONTRACTOR AND SCHOOL SET OFFI					
		CONTRACTOR OF THE PARTY OF THE						
				AND THE PERSON NAMED IN COLUMN 2 IN COLUMN				
				AND DESCRIPTION OF THE PERSON	Name and Address of the Owner, when the		ALL A COMMISSION OF THE PARTY O	
	THE RESERVE OF THE PROPERTY OF THE PROPERTY OF THE							
NAME OF TAXABLE PARTY OF TAXABLE PARTY.								

NIS-2 / NR-1 / NVR-1 FORM CONTINUED SUPPLEMENTAL SHEET (BACK)	Sheet 4 of 4
	ACCOUNTS OF THE PARTY OF THE PA
	The second section of the second seco
	COMMINISTRATION AND AND AND AND AND AND AND AND AND AN
	THE PARTY OF THE P
	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IN COL
	THE STREET WHEN PROPERTY WHEN PROPERTY WHEN THE PROPERTY OF THE
	The Parties of the Control of the Co
	TO THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON
	THE THE RESIDENCE OF THE PARTY
OC Manager Robot E Donne Date 13 ANII ROYMOND N. Acond Date 4/	APRIL 4>
Date 1	13/93

300 Madison Arg., Toledo, OH 43652 Sheet 1 of 2 2. Plant Davis-Besse Nyclear Power Station Unit #1 5501 N. SR 2. Oak Harbor, OH 43449 Separ Organization FC No. Job No. etc. Type Code Stamp NP 5501 N. SR 2. Oak Harbor, OH 43449 Authorization No. 20 Expiration Date 7-17-96. 4. Identification of Systems REACTOR COOLANT SYSTEM 5. (a) Applicable Construction Code ASME IE Ci.1 Edition 19 SE Addendum ST2 Code Case 1440 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86 (c) Design Responsibilities CROSBY VALVE & GAGE 6. Identification of Components Repaired or Replacement Components 8. Identification of Replacement Repaired or Replacement Components 8. Identification of Components Repaired or Replacement Components 8. Identification of Components Repaired or Replacement Components 8. Identification of Components Repaired or Replacement Components 9. Identification of Replacement Repaired Replacement Repaired Replacement Rep	1. Owner Toledo	Edison Company		Date	4/29/93			
2. Plant Davis-Besse Nuclear Power Station Unit 8 1 5501 N. SR 2. Oak Herbor. OH 43449 3. Work Performed By Toledo Edison Company Type Code Stamp NR 5501 N. SR 2. Cak Herbor. OH 43449 4. Identification of Systems REACTOR COOLANT SYSTEM 5. (a) Applicable Construction Code ASME III CL1 Edition 19 St Addendum STD Code Case 1440 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 85 (c) Design Responsibilities CROSBY VALVE & QAGE 6. Identification of Components Repaired or Replaced and Replacement Components 8. Mane of Component Rene of Manufactures Sacial 80. Section Section Statistics Section Sectio	300 Ma	dison Ays, Toledo, OH	43652	Sheet	t 1 of 2			
Type Code Stamp NR 5501 N. SR 2. Oak Harbor, ON 43449 Authorization No. 20 Expiration Date 7-17-95 4. Identification of Systems REACTOR COOLANT SYSTEM 5. (a) Applicable Construction Code ASME III CL1 Edition 19 SE Addendum STQ Code Case 1440 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 SE (c) Design Responsibilities CROSBY VALVE & GAGE 5. Identification of Components Repaired or Replaced and Replacement Components Name of Components Name of Manufactures: A Section NO. 3 Section No. 3 Secti		Autorities		_ Unit _	#1			
Type Code Stamp NR 5501 N. SR 2. Oak Harbor, ON 43449 Authorization No. 20 Expiration Date 7-17-95 4. Identification of Systems REACTOR COOLANT SYSTEM 5. (a) Applicable Construction Code ASME III CL1 Edition 19 SE Addendum STQ Code Case 1440 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 SE (c) Design Responsibilities CROSBY VALVE & GAGE 5. Identification of Components Repaired or Replaced and Replacement Components Name of Components Name of Manufactures: A Section NO. 3 Section No. 3 Secti	5501 N	SR 2. Oak Harbor, OH 4	3449		1-92-01	70-00		THE PARTY NAMED IN
### Storm St		NOOF SEE		Туре				
Expiration Date 7-17-95 4. Identification of Systems REACTOR COOLANT SYSTEM 5. (a) Applicable Construction Code ASME III CL1 Edition 19 St Addendum STQ Code Case 1440 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 85 (c) Design Responsibilities CROSBY VALVE & GAGE 6. Identification of Components Repaired or Replaced and Replacement Components Manne of Component Manne of Manufactures Natural Section 30		rie me		Autho	prization No.		20	
5. (a) Applicable Construction Code ASME III CL1 Edition 19 Si Addendum S72 Code Case 1440 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 85 (c) Design Responsibilities CROSBY VALVE & GAGE 6. Identification of Components Repaired or Replaced and Replacement Components Name of Component Name of Manufacturer Namufacturer Section 3 Section 30 Section 3 Section 30		Address						
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19_86 (c) Design Responsibilities CROSBY VALVE & GAGE 6. Identification of Components Repaired or Replaced and Replacement Components Name of Component Repaired or Replaced and Replacement Components Name of Component Repaired Replaced Record Replaced Replaced Record Replaced Record Record Replaced Record Record Record Replaced Record	4. Identification of	Systems REACTOR CO	OLANT SYSTEM					
6. Identification of Components Repaired or Replaced and Replacement Components **Base of Component** **Base of Manufacturer** **Base of Component** **Base of Manufacturer** **Base of Component** **Base of Manufacturer** **Base of Component** **Base of Manufacturer** **Base of Component** **Base of Replacement** **Base of Component** **B	(b) Applicable E	dition of Section XI Utilize	d for Repairs or R				Code Case 14	40
RC-13A CROSBY N54891-00-0002 NA NA 1976 REPLACED Yes RC-13A CROSBY N54891-00-0001 NA NA 1976 REPLACED Yes RC-13A CROSBY N54891-00-0001 NA NA 1976 REPLACEMENT Yes 7. Description of Work ROSBY VALVE SERIAL # N54891-00-0002 WAS REMOVED AND CROSBY VALVE SERIAL #N84891-00-0001 WAS NSTALLED IN ITS PLACE. CROSBY VALVE SERIAL #N84891-00-0001 WAS REBUILT UNDER INVO 1-91-1117-00 UND SATISFACTORY TESTED AT WYLE TEST LAB BY SAME IMPO. A VT-2 LEAKAGE TEST WAS CONDUCTED AT N.O.P. AND N.O.T. AFTER INSTALLATION. 8. Tests Conducted: Hydrosissic (NO) Pressure 2155 psi Test Temperature NOT "F Pressure Relief Valves: Service NA Size NA Blowdown Adjustments Made Using NA (Twest steelers))			AND THE PROPERTY OF THE PARTY O	or Replaced	and Replacement (Compo	nents	
7. Description of Work 8. Tests Conducted. ends of Work 9. Person of Work	Means of Component	Neme of Manufacturer			Identification/			
7. Description of Work CROSBY VALVE SERIAL # N64891-00-2002 WAS REMOVED AND CROSBY VALVE SERIAL #N64891-00-0001 WAS NSTALLED IN ITS PLACE. CROSBY VALVE SERIAL #N64891-00-0001 WAS REBUILT UNDER MWO 1-91-1117-00 AND SATISFACTORY TESTED AT WYLE TEST LAB BY SAME MWO. A VT-2 LEAKAGE TEST WAS CONDUCTED AT N.O.P. AND N.O.T. AFTER INSTALLATION. 8. Tests Conducted: Hydrostatic (NO) Presumetic (NO) Nominal Operating Preseure (YES) Other (NO) Pressure 2155 pel Test Temperature NOT *F Pressure Relief Valves: Service NA Size NA Biowdown (if applicable) NA Size NA Biowdown (if applicable) NA Conducted NA Conducted NA Conducted NA Conducted NA Conducted NA Conducted NA Conducted NA Conducted NA CONDUCTED	RC-13A	CROSEY	N54891-00-0002	NA	NA	1976	REPLACED	Yes
7. Description of Work CROSBY VALVE SERIAL # N54891-00-3002 WAS REMOVED AND CROSBY VALVE SERIAL #N54891-00-0001 WAS NSTALLED IN ITS PLACE. CROSBY VALVE SERIAL #N54891-80-0001 WAS REBURT UNDER MWO 1-91-1117-00 AND SATISFACTORY TESTED AT WYLE TEST LAB BY SAME MWO. A VT-2 LEAKAGE TEST WAS CONDUCTED AT N.O.P. AND N.O.T. AFTER INSTALLATION. 8. Tests Conducted: Hydrosissic (NO) Preumatic (NO) Nominal Operating Pressure (YES) Other (NO) Pressure 2166 pel Test Temperature NOT "F Pressure Relief Valves: Service MA Size MA Opening Pressure and Biowdown Adjustments Made Using MA (**service**)	RC-13A	CROSSY	N54891-00-0001	HA	NA	1976	REPLACEMENT	Yes
7. Description of Work CROSBY VALVE SERIAL # N54891-00-3002 WAS REMOVED AND CROSBY VALVE SERIAL #N54891-00-0001 WAS NSTALLED IN ITS PLACE. CROSBY VALVE SERIAL #N54891-80-0001 WAS REBURT UNDER MWO 1-91-1117-00 AND SATISFACTORY TESTED AT WYLE TEST LAB BY SAME MWO. A VT-2 LEAKAGE TEST WAS CONDUCTED AT N.O.P. AND N.O.T. AFTER INSTALLATION. 8. Tests Conducted: Hydrosissic (NO) Preumatic (NO) Nominal Operating Pressure (YES) Other (NO) Pressure 2166 pel Test Temperature NOT "F Pressure Relief Valves: Service MA Size MA Opening Pressure and Biowdown Adjustments Made Using MA (**service**)			-					
7. Description of Work CROSBY VALVE SERIAL # N54891-00-3002 WAS REMOVED AND CROSBY VALVE SERIAL #N54891-00-0001 WAS NSTALLED IN ITS PLACE. CROSBY VALVE SERIAL #N54891-80-0001 WAS REBURT UNDER MWO 1-91-1117-00 AND SATISFACTORY TESTED AT WYLE TEST LAB BY SAME MWO. A VT-2 LEAKAGE TEST WAS CONDUCTED AT N.O.P. AND N.O.T. AFTER INSTALLATION. 8. Tests Conducted: Hydrosissic (NO) Preumatic (NO) Nominal Operating Pressure (YES) Other (NO) Pressure 2166 pel Test Temperature NOT "F Pressure Relief Valves: Service MA Size MA Opening Pressure and Biowdown Adjustments Made Using MA (**service**)		AND THE PARTY OF T	-			-	1	
ROSBY VALVE SERIAL # N64891-00-2002 WAS REMOVED AND CROSBY VALVE SERIAL #N64891-00-0001 WAS NSTALLED IN ITS PLACE. CROSBY VALVE SERIAL #N64891-00-0001 WAS REBURLT UNDER MWO 1-91-1117-00 IND SATISFACTORY TESTED AT WYLE TEST LAB BY SAME 1/8/90. A VT-2 LEAKAGE TEST WAS CONDUCTED AT N.O.P. AND N.O.T. AFTER INSTALLATION. 8. Tests Conducted: Hydrostasic (NO) Preumatic (NO) Nominal Operating Pressure (YES) Other (NO) Pressure2185psi				1				
NSTALLED IN ITS PLACE. CROSBY VALVE SERIAL #N64891-86-0001 WAS REBURLT UNDER MWO 1-91-1117-00 UND SATISFACTORY TESTED AT WYLE TEST LAB BY SAME MWO. A VT-2 LEAKAGE TEST WAS CONDUCTED AT N.O.P. AND N.O.T. AFTER INSTALLATION. 8. Tests Conducted: Hydrostasic (NO) Preumetic (NO) Nominal Operating Previous (YES) Other (NO) Pressure	A PROPERTY OF A PROPERTY OF THE PROPERTY OF TH	Accessed to the second			CONTRACTOR OF THE PARTY OF THE			
AT N.O.P. AND N.O.T. AFTER INSTALLATION. 8. Tests Conducted: Hydrostasic (NO) Preumatic (NO) Nominal Operating Preseure (YES) Other (NO) Pressure2185psi								
8. Tests Conducted: Hydrostatic (NO) Preumatic (NO) Nominal Operating Pressure (YES) Other (NO) Pressure 2185 psi Test Temperature NOT °F Pressure Relief Valves: Service NA Size NA Blowdown (If applicable) NA Set Pressure and Blowdown Adjustments Made Using NA (Test Redicts)								
8. Tests Conducted: Hydrostatic (NO) Preumatic (NO) Nominal Operating Pressure (YES) Other (NO) Pressure2185 psi				mreco. At t	1 % SELPTONES. 1 CO			
8. Teets Conducted: Hydrostatic (NO) Preumatic (NO) Nominal Operating Pressure (YES) Other (NO) Pressure					the state of the second state of the second			
8. Tests Conducted: Hydrostatic (NO) Pneumatic (NO) Nominal Operating Praisone (YES) Other (NO) Pressure		DAL						
Pressure 2188 psi Test Temperature MOT *F Pressure Relief Valves: Service MA Size MA Opening Pressure MA Blowdown (V applicable) NA Set Pressure and Blowdown Adjustments Made Using NA (Test Red) to 1		The second second		and the second of the second o				-
Pressure 2188 psi Test Temperature MOT *F Pressure Relief Valves: Service NA Size NA Opening Pressure NA Blowdown (V applicable) NA Set Pressure and Blowdown Adjustments Made Using NA (Test Red) to		ore . F		COMMENSATION COMMENSATION		-		
Pressure Relief Valves: Service NA Size NA	8. Tests Conducted						PESS) Other (NO)	
Service MA Size MA Size MA Size MA Size MA Set Pressure MA Blowdown (V applicable) NA Set Pressure and Blowdown Adjustments Made Using NA (Tree seet to)	Pressure Relie		months page					
Opening Pressure NA Blowdown (Kappicable) NA Set Pressure and Blowdown Adjustments Made Using NA (Two Beauters)					Size MA			
Set Pressure and Blowdown Adjustments Made Using NA (Treet Medical)					Blowdown (V	sppšca	AM (akd	
(Teat Redicts)			en Adjustments M	ade Using				
						sers. Hods o		
MOTE: Supplemental abouts in the ferm of lists, shetches, or drawings may be used, provided (1) size is 8% x 11 in. (2) Information in items 1 through 6 on this report is included on each about, and (3) each about is number	server di una l'an anche l	shores to the form of 1	inte photohou or	Arrend non a	per he used, provide	ed (1)	sime is P% x 11 in	1. (2)

FORM NIS-2 /NR-1 / NO-FF-1	Page 2 of 2
9. REMARKS Applicable Man	utacturers Data Reports to be Attached
VA	
CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement on the ASME Code Section XI.	enforms to the rules of
1,100 0000 01,1100	Expiration Date 7-17-95
Signed Robut & Dornello Quality Control Manager Da	te 29 XXX 12 19 7 3
CERTIFICATE OF INSERVICE INSPECTION	MYNN Admin Sprang dan pulipungkan kuru, sandan perang kananan kalenda pulipungkan yang penangan 1997
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 HSBI & I CO of have inspected the components described in this Owner's Report during the period 2/22	Hartland CT
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, exp	pressed or implied, concerning the
examinations and corrective measures described in the Owner's Report. Furthermore, ne	wither the Inspector nor his employe
shall be liable in any manner for any personal injury or property damage or a loss of any	and arising from or connected with
this inspection.	- 2
Roymand N. Aromb - 4/29/97 Commissions NO 95-	SIN, I, OMTO
Trepeptifirs Signeture Pasional solend, a	SUBBE, PTOVENCE BING CRIGORBETTHERE
CERTIPICATE 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 a defined in publications NB-65 and NB-102, current editions.	and the National Board rules as
Cerifficate of Authorization No. 316 to use the "VR" stamp expires Dec.	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.
Plepair Organization Authorized Representative	Titie
CERTIFICATE OF INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boller and	Pressure Vessel Inspectors, and
certificate of competency lessand by the State or Province of Ohio and em	ployed by H. S. B. L & I. CO.
of Hertford, CT have inspected the repair, modification, or replacement describ	ed in this report
on 19 and state that to the best of my knowledge and belief, this re	spair, modification, or replacement
W 0 4 W 40 - W - W - W - W - W - A COM	
has been made or constructed in accordance with Section XI and Section III of the ASM	E Code and the National Board
has been made or constructed in accordance with Section XI and Section III of the ASM rules as defined in the publication NS-65 and NS-102, current editions.	E Code and the National Board
has been made or constructed in accordance with Section XI and Section III of the ASM 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, so	E. Code and the National Board

feable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with

Digite

Commissions

Hastional Board, State, Province and Endorsements

this inspection.

Authorized inspector's Signature

1. Owner Toledo	Edison Company		Date	5/5/93			
300 Ma	dison Ave., Toledo, OH 4	3652	Sheet	1 1 of 2			
	Besse Nuclear Power Sta		Unit	#1			
					71-00		
	SR 2. Oak Harbor, OH 4		T	Repair Organization			
3. Work Ferformed	By Toledo Edison Comp	DEDY		Code Stamp			
5501 N	SR 2 Oak Harbor, OH 4	3449	Autho	prization NO.		20	and the second second
			Expir	ation Date	7-17-5)5	
4. Identification of	Systems REACTOR CO	OLANT SYSTEM					
(b) Applicable E	dition of Section XI Utilize	d for Repairs or Re	aplacement			Code Case N	4
and the second s	6. Identification of Comp	onents Repaired o	r Replaced	and Replacement (Compo	nents	
Name of Component	Name of Manufacturer	Hanufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.		Pepaired Replaced or Replacement	ASME Code Stamped
RC-13B	CROSBY	N59303-00-0001	NA	NA	1978	REPLACED	Yes
RC-13B	CROSBY	N56264-00-0005	NA	NA	1976	REPLACEMENT	Yes
INSTALLED IN ITS I	PLACE. CROSBY VALVE RY TESTED AT WYLE TES T. AFTER INSTALLATION	SERIAL#N56264- ST LAB BY SAME	D CROSBY 00-0005 W	Y VALVE SERIAL#N AS REBUILT UNDE	R MWC	1-91-1116-00	
Pressure Relie	Service NA Opening Pressure NA	psi		inal Operating Press Test Temperature Size_NA Blowdown (if	NOT	°F)
	Set Pressure and Blowdo	wn Adjustments M	ade Using	NA T	est Madiu	m i	
	at_NA			Location /			
information in item	l sheets in the form of i me ! through 6 on this re ded at the lop of this fo	port is included o	drawings	may be used, provide et, and (1) each she	ed (1)	numbered and the	umber

Page 2 of 2

9. REMARKS Applicable Manufacturers Data Reports to be Attached NA CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASMÉ Code Section XI. Type Code Symbol NR Certificate of Authorization No. 20 Expiration Date 7-17-95 Owner or Owner's Designee Title Quality Control Manager Data 5 May 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 Ohio and employed by H.S.R.I. & I. CO. of Hartford, CT have inspected the components described in this Owner's Report during the period 2-77-93 to 5-0-93 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. Federat & Cook 5-6 43 Commissions NB10992 HIVE WILL COMM 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. Cerifficate 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 Quality Control Mgr. Date ______ 19 ____ Signed Toledo Edison Authorized Representative Repair Organization CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the State or Province of Ohio and employed by H. S. B. I. & I. CO. of Hartford, CT have inspected the repair, modification, or replacement described in this report on ______ 19 ___ and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions __ Authorized Inspectors Signature Date National Board, State, Province and Endorsements

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo	Edison Company		Date	3/29/93			
	adison Ave., Toledo, OH	43652	Shee	et 1 of 2			
	Besse Nuclear Power Sta		Unit	#1			
	SR 2. Oak Harbor, OH 4			MWO# 1-9:	2-0338-	-00	
			Type	Awpair Organization Code Stamp			
	By Toledo Edison Com						
5501 N	SR 2. Oak Harbor, OH 4	13449		orization NO.			-
			Expi	ration Date	7-17-	35	- No. Physical Design
4 Identification of	Systems <u>CTMT. SPRAY</u>	SYSTEM - LOOP	1 \$U\$#	061-01			
5. (a) Applicable C	onstruction Code ANSI B	31.1 Editi	on 19 <u>67</u>	Addendum N/A		Code Case N	(A
(b) Applicable E	dition of Section XI Utilize	d for Repairs or R	eplacemen	ts 19_86			
	onsibilities GRINNELL						
(c) Design Hesp	onsidinaes						
	6. Identification of Comp	onents Repaired o	r Replaced	and Replacement (Compo	nents	
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
C-269	GRINNELL	SN# 30280	N/A	34HCB-4-H32	N/A	REPAIRED	N/A
C-270	GRINNELJ.	SN# 7978	N/A	34HCB-4-H32	N/A	REPAIRED	N/A
		7. Descript	ion of Worl	Κ			
SNUBBERS C-269 A	ND C-270 WERE REBUIL	and the second state of th		And the second s			
					-		
	Pressure N/A	Pneumatic (NO)		nal Operating Press est Temperature		O) Other (NO	
Pressure Relief				Size NA			
	ervice N/A			Blowdown (if a	annlice	nie) N/A	
	pening Pressure NA	un Adjuntmente M	ada Heine		appiiosi	110) 110	
	et Pressure and Blowdov	vn Aujustments Mi	ade Using_	1 70	et Medium		
	t NA sheets in the form of li	are abarahas	drawings	postics ;	d (1)	rize is 8% m ll on	21
Information in items	sheets in the form of 11 through 6 on this rep	ort is included or	n each shee	t, and (3) each she	et is r	numbered and the n	rampse t

of sheets is recorded at the top of this form.

FORM NIS-2/NR-1 / NYR-1 Page 2 of 2
9. REMARKS Applicable Manufacturers Data Reports to be Attached ONE
CERTIFICATE OF COMPLIANCE Alls ben'ny manime statements made in the report are correct and this repair conforms to the rules of the ABME Cade Sent in X
Type Cade 5 y Tota NR Certificate of Authorization No. 20 Expiration Date 7-17-95
Signes Robert & Donalla Quality Control Manager Date 29 MARCH 1993
CERTIFICATE OF INSERVICE INSPECTION If 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 H.S.B. & I.CO. of Hartford, CT have inspected the components described in this Owner's Report during the period 3-3/-92 to 3-29-93, 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. Commissions ND 9557 NT, OHTO 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.
Cerifficate 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
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and
certificate of competency issued by the State or Province of Ohio and employed by H. S. B. I. & I. CO.
Hartford, CT have inspected the repair, modification, or replacement described in this report
on 19 and state that to the best of my knowledge and belief, this repair, modification, or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publication NB-65 and NB-102, current editions.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the

repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with

Date

Commissions_

National Board, State, Province and Endorsements

this inspection.

Authorized inspectors Signature

1 Owner Toledo	Edison Company		Date	3/29/93			
	dison Ave., Toledo, OH 4		-	1 of 2			
	Besse Nuclear Power Sta		Unit	#1			
	SR 2. Oak Harbor, OH 4			MWO# 1-92 Repair Organization	2-0338-	04	
			Type	Repair Organization Code Stamp			
	By Toledo Edison Com						
5501 N	SR 2, Oak Harbor, OH 4	3449		rization NO.			
				ation Date			
4. Identification of S	Systems SECONDARY	SIDE DRAIN LINE	FROM SG	1-1 NOZZLE H S	U\$# 06	3-01	-
5. (a) Applicable Co	onstruction Code ANSI B	31.1 Editi	ion 19 <u>67</u>	Addendum N/A		Code Case N	A
(b) Applicable Ed	dition of Section XI Utilize	d for Repairs or R	eplacement	s 19 86			
(c) Design Resp	onsibilities LISEGA						
	6. Identification of Comp	onents Repaired	or Replaced	and Replacement (Compo	nents	
Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.		Repaired Replaced or Replacement	ASME Code Stamped
C-449	LISEGA	SN# 61195/24	N/A	EBB-5-8-H11	N/A	REPLACED	N/A
C-449	LISEGA	SN# 61195/68	N/A	EBB-5-8-H11	N/A	REPLACEMENT	NA
		7. Descrip	tion of Worl	(
	5/24 WAS REPLACED W						
	NG. (NOTE: FUNCTION				NSFAC	TORY.)	
SNUBBER SN# 6119	5/68 WAS FUNCTIONAL	LY TESTED PRIO	M TO INSTA	LLATION.			
		A STATE OF THE STA					
			CALLOUS DAY BY AND THE THE				
8. Tests Conducted	Hydrostatic (NO) Pressure N/A			nal Operating Press Test Temperature)
Pressure Relie							
	Service N/A					Intel MIA	
	Opening Pressure N/A			_ Blowdown (if	applica	IDIO) NA	
5	Set Pressure and Blowdo	wn Adjustments N	fade Using	NA T	est Medi:	æ 1	
	IT_N/A			Location :			
Information in item	sheets in the form of 1 a 1 through 6 on this re ed at the top of this fo	borr is incremen	r drawings on each she	may be used, provid st, and (3) each sh	ed (1) est is	size is EM x 11 i	number

	9. REMARKS App	plicable Manufacture	ers Data Reports to be Attached
ONE			
	CERTIFICATE OF COMPLIANCE		s to the rules of
Ne can'ty mat ma statements made in me ne 45115 Code Settion K	epont are correct and this replace	ment contorni	S to the rules of
voe Code Symps NR Cent	i cate of Authorization No. 20	Evniral	tion Date 7-17-95
1900 Robit E Darul	h		APRIL DO 42
Ignes / Owner's Swher's	Quality Control Mana	iger Date -	19 /2
	ERTIFICATE OF INSERVICE INSPEC		
the undersigned holding a valid commiss	ion issued by the National Board of B	Boiler and Press	ure Vessel Inspectors in the
State of Province of Ohio and employed inspected the components described	in this Owner's Report during the per	riod 3/12/93	to 4/3/93, and state
har to the heat of my knowledge and belief	the Owner has performed examinat	tions and taken	corrective measures
escribed in this Owner's Report in accorda	ance with the requirements of the AS	ME Code, Secti	on XI.
ly signing this certificate ineither the inspe-	ctor nor his employer makes any war	ranty, expresse	d or implied concerning the
xaminations and corrective measures des	cribed in the Owner's Report. Further	rmore, neither t	he inspector nor his employ
hall be liable in any manner for any persor	hal injury or property damage or a los	is of any kind ar	ising from or connected with
his inspection.			
Roymond N. Acorl.	Commissions N	0.9557-	N.I. OHIO
Inspector's Signature	Date Natio	onal Board, State, P	rovince and Endorsements .
~			THE COLUMN STREET AND THE PROPERTY OF THE PARTY OF THE PA
	CERTIFICATE OF COMPLIANCE	50 mm	
Ve certify that the statements made in this	report are correct and the repair, mo	odification, or re	placement of the pressure
Ve certify that the statements made in this elief device described above conforms to	report are correct and the repair, mo Section XI and Section III of the ASM	odification, or re	placement of the pressure a National Board rules as
Ve certify that the statements made in this elief device described above conforms to	report are correct and the repair, mo Section XI and Section III of the ASM	odification, or re	placement of the pressure e National Board rules as
Ve certify that the statements made in this elief device described above conforms to lefined in publications NB-65 and NB-102.	report are correct and the repair, mo Section XI and Section III of the ASM	odification, or re	placement of the pressure e National Board rules as
Ve certify that the statements made in this elief device described above conforms to efined in publications NB-65 and NB-102. Cerifficate of Authorization No. 316	report are correct and the repair, mo Section XI and Section III of the ASM current editions. to use the "VR" stamp expires	odification, or re Æ Code and the Dec. 13	National Board rules as
Ve certify that the statements made in this elief device described above conforms to refined in publications NB-65 and NB-102. Certificate of Authorization No. 316 Certificate of Authorization No. 20	report are correct and the repair, mo Section XI and Section III of the ASM current editions.	odification, or re ME Code and the	National Board rules as
Ve certify that the statements made in this allef device described above conforms to efined in publications NB-65 and NB-102. Sertificate of Authorization No. 316 Sertificate of Authorization No. 20 ate 19 Signed 7	report are correct and the repair, mo Section XI and Section III of the ASM current editions. to use the "VR" stamp expires to use the "NR" stamp expires foledo Edison	Dec. 13	19 95 , 19 95 Quality Control Mgr.
/e certify that the statements made in this plief device described above conforms to efficie in publications NB-65 and NB-102. eritficate of Authorization No. 316 ertificate of Authorization No. 20 ate 19 Signed 7	report are correct and the repair, mo Section XI and Section III of the ASM current editions.	Dec. 13	National Board rules as
Ve certify that the statements made in this allef device described above conforms to efined in publications NB-65 and NB-102. Sertificate of Authorization No. 316 Sertificate of Authorization No. 20 ate 19 Signed 7	report are correct and the repair, mo Section XI and Section III of the ASM current editions. to use the "VR" stamp expires to use the "NR" stamp expires foledo Edison	Dec. 13 July 17	19 95 19 95 Quality Control Mgr.
Ve certify that the statements made in this elief device described above conforms to efined in publications NB-65 and NB-102. Sertificate of Authorization No. 316 Sertificate of Authorization No. 20 Sertificate of Authorization No. 20 Sertificate of Authorization No. 20	report are correct and the repair, mo Section XI and Section III of the ASM current editions. to use the "VR" stamp expires to use the "NR" stamp expires oledo Edison epair Organization Authorized Rec CERTIFICATE OF INSPECTION	Dec. 13 July 17	19 95 19 95 Quality Control Mgr. Thie
Ve certify that the statements made in this allef device described above conforms to efined in publications NB-65 and NB-102. Sertificate of Authorization No. 316 Sertificate of Authorization No. 20 Signed 19 Signed 7	report are correct and the repair, mo Section XI and Section III of the ASM current editions. to use the "VR" stamp expires to use the "NR" stamp expires foledo Edison epair Organization Authorized Rec CERTIFICATE OF INSPECTION sign issued by the National Board of I	Dec. 13 July 17 Decentative	9 National Board rules as 19 95 19 95 Quality Control Mgr. This
Ve certify that the statements made in this allef device described above conforms to efined in publications NB-65 and NB-102. Sertificate of Authorization No. 316 Sertificate of Authorization No. 20 Signed 19 Signed 7	report are correct and the repair, mo Section XI and Section III of the ASM current editions. to use the "VR" stamp expires to use the "NR" stamp expires foledo Edison epair Organization Authorized Rec CERTIFICATE OF INSPECTION sign issued by the National Board of I	Dec. 13 July 17 Decentative	9 National Board rules as 19 95 19 95 Quality Control Mgr. Thie
Ve certify that the statements made in this slief device described above conforms to efined in publications NB-65 and NB-102. Sertificate of Authorization No. 316 Sertificate of Authorization No. 20 Late 19 Signed Telephone S	report are correct and the repair, mo Section XI and Section III of the ASM current editions. to use the "VR" stamp expires to use the "NR" stamp expires foledo Edison epair Organization Authorized Rec CERTIFICATE OF INSPECTION sign issued by the National Board of I	Dec. 13 July 17 Decentative Boiler and Press	9 National Board rules as 19 95 19 95 Quality Control Mgr. Trile sure Vessel Inspectors, and by H. S. B. I. & I. CO.
Ve certify that the statements made in this elief device described above conforms to efined in publications NB-65 and NB-102. Sertificate of Authorization No. 316 Sertificate of Authorization No. 20 State 19 Signed Telephone and the undersigned holding a valid commission of the undersigned holding and the undersigned holding a valid commission of the undersigned holding and the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersi	report are correct and the repair, mo Section XI and Section III of the ASM current editions. to use the "VR" stamp expires to use the "NR" stamp expires to use the "NR" stamp expires foldo Edison epair Organization Authorized Repair Organization Authorized Repair organization Authorized Repair or Province of Ohio erepair, modification, or replacement	Dec. 13 July 17 Decentative Boiler and Press and employed and described in the	Quality Control Mgr. This Sure Vessel Inspectors, and by M. S. B. I. & I. CO.
Ve certify that the statements made in this elief device described above conforms to efined in publications NB-65 and NB-102. Sertificate of Authorization No. 316 Sertificate of Authorization No. 20 Sate 19 Signed Telephone and State and State and State and State and State that the same and state that	report are correct and the repair, mo Section XI and Section III of the ASM current editions. to use the "VR" stamp expires to use the "NR" stamp expires to use the "NR" stamp expires foledo Edison epair Organization Authorized Repair Organization Authorized Repair Organization Authorized Repair or Province of Ohio etc Ohio etc to the best of my know e and belief	Dec. 13 July 17 Decentative Boiler and Press and employed in the described in the lief, this repair, in	Quality Control Mgr. This Sure Vessel Inspectors, and by M. S. B. I. & I. CO. Inis report Inodification, or replacement
Ve certify that the statements made in this elief device described above conforms to defined in publications NB-65 and NB-102. Certificate of Authorization No. 316 Certificate of Authorization No. 20 Date	report are correct and the repair, mode Section XI and Section III of the ASM current editions. to use the "VR" stamp expires	Dec. 13 July 17 Decentative Boiler and Press and employed in the described in the lief, this repair, in	Quality Control Mgr. This Sure Vessel Inspectors, and by M. S. B. I. & I. CO. Inis report Inodification, or replacement
We certify that the statements made in this elief device described above conforms to defined in publications NB-65 and NB-102. Certificate of Authorization No. 316 Certificate of Authorization No. 20 Date 19 Signed Terminate of Competency issued by the State Hartford. CT have inspected the mass been made or constructed in accordance as defined in the publication NB-65 and NB-65 an	report are correct and the repair, mo Section XI and Section III of the ASM current editions. to use the "VR" stamp expires	Dec. 13 July 17 Decentative Boiler and Press and employed in the described in the described in the described in the described in the ASME Code	Quality Control Mgr. This Sure Vessel Inspectors, and by H. S. B. I. & I. CO. Inis report modification, or replacement and the National Board
We certify that the statements made in this elief device described above conforms to be fined in publications NB-65 and NB-102. Certificate of Authorization No. 316 Certificate of Authorization No. 20 Date	report are correct and the repair, mode Section XI and Section III of the ASM current editions. to use the "VR" stamp expires	Dec. 13 July 17 Decentative Boiler and Press and employed on the described in the described in the described in the described in the ASME Code arranty, expression the Inspector	9 National Board rules as 19 95 19 95 Quality Control Mgr. Trile Sure Vessel Inspectors, and by H. S. B. I. & I. CO. Inis report modification, or replacement and the National Board and or implied, concerning the roor his employer shall be
Ve certify that the statements made in this elief device described above conforms to elined in publications NB-65 and NB-102. Certificate of Authorization No. 316 Certificate of Authorization No. 20 Date 19 Signed T The undersigned holding a valid commission of the undersigned holding a valid	report are correct and the repair, mode Section XI and Section III of the ASM current editions. to use the "VR" stamp expires	Dec. 13 July 17 Decentative Boiler and Press and employed on the described in the described in the described in the described in the ASME Code arranty, expression the Inspector	9 National Board rules as 19 95 19 95 Quality Control Mgr. Trile Sure Vessel Inspectors, and by H. S. B. I. & I. CO. Inis report modification, or replacement and the National Board and or implied, concerning the roor his employer shall be
Ve certify that the statements made in this elief device described above conforms to efined in publications NB-65 and NB-102. Certificate of Authorization No. 316 Certificate of Authorization No. 20 Date 19 Signed T The undersigned holding a valid commission of the undersigned holding a valid c	report are correct and the repair, mode Section XI and Section III of the ASM current editions. to use the "VR" stamp expires	Dec. 13 July 17 Decentative Boiler and Press and employed on the described in the described in the described in the described in the ASME Code arranty, expression the Inspector	9 National Board rules as 19 95 19 95 Quality Control Mgr. True Sure Vessel Inspectors, and by H. S. B. I. & I. CO. Inis report modification, or replacement and the National Board and or implied, concerning the roor his employer shall be
Ve certify that the statements made in this elief device described above conforms to refined in publications NB-65 and NB-102. Certificate of Authorization No. 316 Certificate of Authorization No. 20 Date 19 Signed T The undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned holding a valid commission of the undersigned that the undersigned in the publication NB-65 are suggisted in the publicati	report are correct and the repair, mode Section XI and Section III of the ASM current editions. to use the "VR" stamp expires	Dec. 13 July 17 Decentative Boiler and Press and employed on the described in the described in the described in the described in the ASME Code arranty, expression the Inspector	9 National Board rules as 19 95 19 95 Quality Control Mgr. Trile Sure Vessel Inspectors, and by H. S. B. I. & I. CO. Inis report modification, or replacement and the National Board and or implied, concerning the roor his employer shall be

	Edison Company		Date	4/18/93			-
300 Ma	dison Ave. Toledo. OH 4	3652	Sheet	1 of 2			
	Besse Nuclear Power Stat		Unit_	*1			-
	SR 2. Oak Harbor, OH 43			MWO# 1-92 Repair Organization	-0447-C	ob No etc	
	By Tolego Edison Comp			Code Stamp			
	SR 2 Oak Harhor, OH 43		Autho	rization No.	2	0	
	A GC ***		Expira	ation Date	7-17-9	5	
Identification of	Systems PRESSURIZER	SURGE LINE SN	UBBERS S	SUS# 064-04		and the same of th	
	onstruction Code ANSI B3					Code Case N/	A
	dition of Section XI Utilize	d for Hepairs or Hi	epiacement	2 1 2 and			
(c) Design Resp	onsibilities GRINNELL						
	6. Identification of Comp	onents Repaired o	or Replaced	and Replacement (Compor	nents	
ame of Component	Name of Manufacturer	Hanufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.	Year Built	Repaired Replaced or Replacement	ASMO Code Stamp
C-203	GRINNELL	SN# 14239	N/A	PSU-1-R1	N/A	REPAIRED	NV
					-		-
and the control with the same of the control of the		7 Descrip	tion of Worl				
TETING CHIERE	RS HAVE BEEN REMOVE	D, REBUILT, FU	NCTIONAL	LY TESTED AND TO	HEN		
ISTREM SRUDDE.	RIGINAL LOCATION.						
INSTALLED IN O				and Operation Proc	eure (I	NO) Other (NO))
EINSTALLED IN O	d: Hydrostatic (NO) Pressure NA	Pneumatic (NO)		inal Operating Presi Test Temperature))
Tests Conducted Pressure Relie	Pressure NA ef Valves:	psi		Test Temperature))
Tests Conducted Pressure Relie	Pressure NA ef Valves: Service NA			Test Temperature Size NA	N/A	*F))
Tests Conducted Pressure Relie	Pressure NA ef Valves: Service NA Opening Pressure NA	psi		Size WA Blowdown (if	N/A	*F))
Tests Conducted Pressure Relie	Pressure NA ef Valves: Service NA	psi		Size WA Blowdown (if	N/A	able) N/A))

	FORM NIS-2 /NR-1 / N	VA-1	Page 2 of 2
	9. REMARKS	Applicable Manufact	turers Data Reports to be Attached
NONE			
AND THE RESERVE OF THE PARTY OF	CERTIFICATE OF COMPL		
We certify that the statements made in the ASME Code Section XI.	n the report are correct and this	EDAII contor	rms to the rules of
Type Code Symbol NR	Certificate of Authorization No	20 Expi	ration Date 7-17-95
2.D- L			
Signed / Owner or Ow	Quality Contro	LiMenager Date	19 APRIL 1993
TO AN ART THE PROPERTY OF THE			
	CERTIFICATE OF INSERVICE	The state of the s	
state or Province of Ohio and			Saure Vessel Inspectors in the Hartford CT
have inspected the components descri			2 to 9/19/93 and state
that to the best of my knowledge and b	pelief, the Owner has performed ex	aminations and take	n corrective measures
described in this Owner's Report in acc	cordance with the requirements of	the ASME Code, Se	ction Xi.
By signing this certificate, neither the Ir	aspector nor his employer makes a	ny warranty, express	sed or implied, concerning the
examinations and corrective measures	described in the Owner's Report.	Furthermore, neither	the Inspector nor his employe
shall be liable in any manner for any pe	ersonal injury or property damage	or a loss of any kind	arising from or connected with
this inspection.	1		
Karmond N. TKO	Commission	15 ND-9557-1	V, I, OHIO Province and Endorsements
Ynaperfora Signature	Date	National Board, State,	Province and Endorsements
		THE RESIDENCE OF A SECOND PROPERTY OF THE PARTY OF THE PA	
	CERTIFICATE OF COMPI	JANCE	
We certify that the statements made in			
relief device described above conformation defined in publications NB-65 and NB-		e ASME Code and t	he National Board rules as
Ceritficate of Authorization No. 316	to use the "VR" stamp exp	pires Dec. 13	19 95
Certificate of Authorization No. 20	to use the "NR" stamp ex	oires July 17	19 95
Date, 19, Signe		zed Representativa	Quality Control Mgr.
	The second secon	Englishment of the second	The state of the s
	CERTIFICATE OF INSPE	NOTE	
I, the undersigned, holding a valid com	mission issued by the National Bo	ard of Boiler and Pre	ssure Vessel Inspectors, and
certificate of competency issued by the	e State or Province of Ohio	and amploye	dhy HSBLALCO
certificate of competency issued by the	State of Province of	and employe	10 Dy 11 0. 10 11 11 10 10
of Hartford, CT have inspecte	d the repair, modification, or repla	cement described in	this report
		and the street states are in the	and the second s
on 19 and state thas been made or constructed in acco			
rules as defined in the publication NB-		THE PARTY OF	we ally the Habbild Dould
			and as implied assessment that
By signing this certificate, neither the Ir repair, modification or replacement des			
liable in any manner for any personal in			
this inspection.			
	Commissi	000	
Authorized inspector's Signature	Date	Ons	e Province and Endorsements

Owner Toledo	Edison Company		Date	4/5/93			
300 Medison Ave., Toledo, OH 43652		Sheet	1 of 2				
			Unit	#1			
	Besse Nuclear Power Sta				-0447-	DO .	
	SR 2. Oak Harbor, OH 4		MWO# 1-92-0447-02 Repair Organization P.O. No. Job No. etc.				
Work Performed	By Toledo Edison Com	PROY		Code Stamp			
5501 N. SR 2. Oak Harbor, OH 43449		Authorization No. 20					
			Expir	ation Date	7-17-9	95	Laber Construer
Identification of	Systems PRESSURIZE	SURGE LINE SNI	JBBERS 1	SUS# 054-04	-		
						Code Case N/	A
	onstruction Code ANSI B					0000 0000	
(b) Applicable E	dition of Section XI Utilize	d for Repairs or Re	placement	ts 19 86			
(c) Design Rest	consibilities GRINNELL	A STATE OF THE STATE OF THE STATE OF					-
	6. Identification of Comp	innents Renaired o	r Replaced	and Replacement (Compo	nents	
	6. Identification of Comp	I Paris O	riopiaooo				
Name of Component	Name of Manufacturer	Henufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.		Repaired Replaced or Replacement	ASM Cod Stamp
C-204	GRINNELL	5N# 7440239322	N/A	PSU-1-R2	N/A	REPAIRED	N/A
C-205	GRINNELL	SN# 12831	N/A	PSU-1-R3	NA	REPAIRED	N/A
	1						
					-		
					-		
A STATE OF THE STA		7. Descript	ion of Wor	4		1	
VISTING SNUBBE	RS HAVE BEEN REMOVE				HEN		
	PRIGINAL LOCATION.				-		
	The second secon				CONCUMENTATION OF THE PARTY OF		
					-		
The second section of the second section of the second							
Tests Conducte	d: Hydrostatic (NO) Pressure NA			inal Operating Press Test Temperature			,
	ef Valves:			C: W/A			
Pressure Rei	CO BASE	A CONTRACTOR OF THE PERSON NAMED OF THE PERSON		Size_N/A			
				Olever days at 114	and the same of the same of	who has be the first	
and September 1999	Opening Pressure N/A				applica	able) N/A	
				N/A	applica		

	FORM NIS-2 /NR-1 / NOR-1	Page 2 of 2
	9. REMARKS Ap	plicable Manufecturers Data Reports to be Attached
NE		
	CERTIFICATE OF COMPLIANCE	
We certify that the statements made the ASME Code Section XI.	in the report are correct and this repair	conforms to the rules of
	Certificate of Authorization No. 20	Expiration Date 7-17-95
214		
signed Robert & Dorr	Owner's Designee, Trile	ager Date 6 APAIL 19 93
Owner or o	where Designee, This	
	CERTIFICATE OF INSERVICE INSPE	CTION
, the undersigned, holding a valid cor	mmission issued by the National Board of §	Boiler and Pressure Vessel Inspectors in the
State or Province of Ohio ar	nd employed by HSBIALCO ribed in this Owner's Report during the pe	of Hartford, CT
hat to the hest of my knowledge and	belief, the Owner has performed examina	riod #277 to 92 77 and state tions and taken corrective measures
lescribed in this Owner's Report in a	ccordance with the requirements of the AS	SME Code, Section XI.
By signing this certificate, neither the	Inspector nor his employer makes any wa	rranty, expressed or implied, concerning the armore, neither the Inspector nor his employ
shall be liable in any manner for any I	personal injury or property damage or a lo	ss of any kind arising from or connected with
his inspection.		
Rugnod N. A.O.	N- Commissions A	VB-7557-NI, OMIO
Inspector's Signature	Date Nati	onal Board, State, Province and Endorsements
	CERTIFICATE OF COMPLIANC	E
We certify that the statements made	in this report are correct and the repair, m	odification, or replacement of the pressure
relief device described above confort	rns to Section XI and Section III of the ASI	ME Code and the National Board rules as
defined in publications NB-65 and NE	3-102, current editions.	
Cerifficate of Authorization No. 3	16 to use the "VR" stamp expires	Dec. 13 19 95
Certificate of Authorization No2	to use the "NR" stamp expires	July 17 19 95
Date 19 Sig	ined Toledo Edison	Quality Control Mgr.
in an annual for any charles are a reference and agreement rule. I	Repair Organization Authorized Re	presentative Title
	CERTIFICATE OF INSPECTION	1
the undersigned holding a valid on	***************************************	Boiler and Pressure Vessel Inspectors, and
certificate of competency issued by	the State or Province of Ohio	and employed by H. S. B. I. & I. CO.
of Hartford, CT have inspec	cted the repair, modification, or replaceme	nt described in this report
The second secon		
on 19 and state	e that to the best of my knowledge and be	lief, this repair, modification, or replacemen
has been made or constructed in ac rules as defined in the publication N		of the ASME Code and the National Board
By signing this certificate, neither the	e inspector nor his employer makes any w	arranty, expressed or implied, concerning th
repair, modification or replacement of	described in this report. Furthermore, nert	her the inspector nor his employer shall be
	al injury or property damage or a loss of ar	ny kind ansing from or connected with
this inspection.		
AND ADDRESS TO SELECT THE PROPERTY OF THE PROP	Commissions	

. Owner Toledo	Edison Company		Date	4/7/93	-		-
300 Ma	dison Ave., Toledo, OH 4	3652	Sheet	1 of 2			
	Besse Nuclear Power Sta		Unit	*1			and the same of th
	SR 2. Oak Harbor, OH 4		1000000000	MWO 1-92 Repair Organization	-0469-0	00	No. and State of Stat
	By Toledo Edison Comp		Туре	Code Stamp			NAME AND POST OF
	SR 2 Oak Herbor, OH 4		Autho	rization No.		20	
Separate Manager Manag	Address		Expir	ation Date	7-17-9	5	
4 Identification of 5	Systems AUXILLARY F	EEDWATER SYST	TEM				
5. (a) Applicable C	onstruction Code ANSI B3	1.1 Editi	on 19 67	Addendum		Code Case	
	onsibilities ITT GRINELL				*************		
	6. Identification of Comp	onents Repaired	or Replaced	and Replacement (Compo	nents	
Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/		Repaired Replaced or Replacement	Code
	3 00000000	10101	N/A	Jurisdictional NO.	NA	REPAIRED	Stampe N/A
EBB-4-H15	' GRINNELL	19191	TWA	V180	TOM	REFAILED	140
			1				
			-		-		
		7. Descrip	tion of Wor	k	1		
GRIINNELL HYDRA	AULIC SNUBBER S/N 191				ARY F	EEDWATER	
REBUILT , FUNCT	TONALLY TESTED AND	RE-INSTALLED.					
			AND DESCRIPTION OF THE PARTY OF				
		NAME AND POST OF THE PARTY OF T					
8. Tests Conducted	d: Hydrostatic (NO) Pressure NA			inal Operating Press Test Temperature)
Pressure Relie				Size NA			
	Service N/A Opening Pressure N/A			Blowdown (if	applies	able) N/A	
	Set Pressure and Blowdo	wn Adjustments &	Ande Lisino			I adaMedianna annonana anno	
	Det Flessure and Didwidd	en reguaunema n	nave weny	1.7	nert Meeli	1996 J	
	st N/A						

	FORM NIS-2 /NR-1	NVR-1	Page 2 of 2
	9. REMARKS	Applicable Mar	outacturers Data Reports to be Attached
		THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	
All had a complete the first of the second o	CERTIFICATE OF COM	APLIANCE	
We certify that the statements made in the ASME Code Section XI.	the report are correct and this	repair co	onforms to the rules of
Type Code Symbol NR C	Derlificate of Authorization No.	20	Expiration Date 7-17-95
Signed Robert E Dora	ner's Designee. Title	ntrol Manager Da	te 8 APRIL 19 73
	CERTIFICATE OF INSERVICE	E INSPECTION	
I, the undersigned, holding a valid come State or Province of Ohio and have inspected the components described that to the best of my knowledge and be described in this Owner's Report in accordance.	mission issued by the National employed by HSRI&I bed in this Owner's Report during elief, the Owner has performed	Board of Boiler and LCO of ing the period 20 dexaminations and	Hartford, CT 7-95 to 7-5-73, and state taken corrective measures
By signing this certificate, neither the in examinations and corrective measures shall be liable in any manner for any pethis inspection. Inspectors Signature	described in the Owner's Repo ersonal injury or property dama	ort. Furthermore, ne ge or a loss of any i	either the Inspector nor his employe kind arising from or connected with
We certify that the statements made in relief device described above conforms defined in publications NB-65 and NB-	s to Section XI and Section III	repair modification	n, or replacement of the pressure and the National Board rules as
Cerifficate of Authorization No. 316	to use the "VR" stamp	expires Dec	. 13 , 19 95
Certificate of Authorization No. 20	to use the "NR" stamp	expiresJuh	19 95
Date 19 Sign	ed Toledo Edison Reper Organization Au	uthorized Representative	Quality Control Mgr.
	CERTIFICATE OF INS	PECTION	
I, the undersigned, holding a valid com			d Pressure Vessel Inspectors, and
certificate of competency issued by th	e State or Province ofO	hio and em	ployed by H. S. B. I. & I. CO.
of Hartford, CT have inspecte	d the repair, modification, or re	eplacement describ	ed in this report
on 19 and state that been made or constructed in according as defined in the publication NB-	ordance with Section XI and Se	ection III of the ASM	epair, modification, or replacement IE Code and the National Board
By signing this certificate, neither the li repair, modification or replacement de liable in any manner for any personal this inspection.	scribed in this report. Furthern	more, neither the Ins	spector nor his employer shall be
	Come	nissions	
Authorized Inspectors Signature	Date		rd, State, Province and Endorsements

1. Owner Toledo	Edison Company		Date	3/24/93				
300 Ma	dison Ave., Toledo, OH 4	3652	Sheet 1 of 2					
	Plant Davis-Besse Nuclear Power Station 5501 N. SR 2, Oak Harbor, OH 43449		Unit	#1				
				MWO# 1-92 Repair Organization	2-0473-0	00		
	By Toledo Edison Com			Repair Organization Code Stamp				
	Name			rization No.				
5501 N	SR 2, Oak Harbor, OH 4	J 44 J		ation Date				
4. Identification of S	Systems LOW PRESSU	RE INJECTION LO	OOP 1 SUS	049-02				
5. (a) Applicable C	onstruction Code ANSI B	81.1 Editi	on 19 <u>67</u>	Addendum NA		Code Case N	Α	
(b) Applicable E	dition of Section XI Utilize	d for Repairs or R	eplacement	s 19 86				
(c) Design Resp	onsibilities ITT GRINNEL	L	portraganes printerior sale in 2000 militar					
	6. Identification of Comp	onents Repaired o	or Replaced	and Replacement (Compo	nents		
Name of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.		Repaired Replaced or Replacement	ASME Code Stamped	
C-277	ITT GRINNELL	SN# 9872	N/A	33BCCB-6-H2	N/A	REPAIRED	N/A	
		7 Descrip	tion of Work					
THE SNUBBER SN#	9872 WAS REBUILT AND		tion of Work	The second secon	STING			
8. Tests Conducted Pressure Relie	Hydrostatic (NO) Pressure NA		Nomi	est Temperature	sure (NA	NO) Other (NO))	
				Size_NA_		his M/A		
	Opening Pressure N/A				applica	ible) MA		
	Set Pressure and Blowdo		nade Using_	N/A	est Medit	38.)		
	N/A			Location)	ed (1)	size is 8% × 11 i	n. (2)	
Toformation in items	sheets in the form of 1 is 1 through 6 on this reled at the top of this fo	DOLF TR VIII-TRABA		Aires be used meanid	ed (1) eet is	size is 8% x 11 i numbered and the	n. (2) number	

	9. REMA	ARKS App	icable Manufacturers D	ala Reports to be Attached
ONE				
	-		0.000	
	CERTROATEC	F COMPLIANCE		
。 数本であれて、man A Profession Pa mada 8 V意 Code 3 A Profession N	centificate correct a	nd this repair	conforms to	the rules of
Type Code Sympo NR NR		on No. 20	_ Expiration	Date 7-17-95
Sgres Robert & Dor	or Oxner's Designee Title	ity Control Mana	ger Date 23	MARCH 19 93
	CERTIFICATE OF INS	ERVICE INSPEC	TION	
State or Province of Ohio nave inspected the components dithat to the pest of my k, owledge a described in this Owner's Report in	and employed by H.S. escribed in this Owner's Repand belief, the Owner has per	BI. & I. CO. on during the peri formed examinati	of Har od 3-/7-23 to ons and taken corr	tford, CT 3:27-93, and state ective measures
By signing this certificate, neither the examinations and corrective meas shall be liable in any manner for a this inspection.	sures described in the Owner ny personal injury or property	s Report. Further damage or a loss	rmore, neither the l s of any kind arising	nspector nor his employed from or connected with
Roymond N. Acon	Date C	ommissions MI Nation	3-9557 NI nal Board, State, Provin	OHIO
And the state of t	CERTIFICATE	OF COMPLIANCE		
We certify that the statements ma relief device described above con defined in publications NB-65 and	forms to Section XI and Sect	ind the repair, mo ion III of the ASM	dification, or replac E Code and the Na	ement of the pressure ational Board rules as
Ceritficate 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
Date19	Signed Toledo Edison	Authorized Rep	AND DESCRIPTION OF THE PERSON AND PERSON ASSESSMENT OF THE PERSON ASSES	Quality Control Mgr.
	CERTIFICATE	OF INSPECTION		WARRANCE AND A STATE OF THE PARTY OF THE PAR
the undersigned holding a valid	and the second s		Roller and Pressure	Vessel Inspectors, and
certificate of competency issued				
of Hartford CT have ins				
on	accordance with Section XI	and Section III of	ef, this repair, mod the ASME Code at	ification, or replacement nd the National Board
By signing this certificate, neither repair, modification or replaceme liable in any manner for any persithis inspection.	nt described in this report. F	urthermore, neith	er the inspector no	r his employer shall be
		Commissions		
	CONTRACTOR CONTRACTOR			wince and Endorsements

1. Owner Toledo	Owner Toledo Edison Company			Date 4/3/93					
300 M	edison Ays. Toledo, OH	43652	Sheet 1 of 2						
	Besse Nuclear Power Sta		Unit	*1					
	5501 N. SR 2. Oak Harbor, OH 43449			1-92-04	84-00				
	By Toledo Edison Com			1-92-04 Repair Organization Code Stamp					
	Name			prization NO.					
	SR 2 Oak Harbor, OH 4	¥**9							
			Expir	ation Date	7-17-6	6			
4. Identification of	Systems MAIN STEAM	SYSTEM							
5. (a) Applicable C	Construction Code ANSI B	31.1 Editi	on 19 <u>67</u>	Addendum		Code Case			
(b) Applicable E	dition of Section XI Utilize	d for Repairs or R	eplacement	ts 19 86					
(c) Design Hest	ponsibilities ITT GRINELL								
	6. Identification of Comp	onents Repaired o	or Replaced	and Replacement (Compo	nents	PARK SAME SAME		
Name of Component	Name of Manufacturer	Manufacturer's Serial MO.	National Board NO.	Other Identification/ Jurisdictional NO.	Built	Repaired Replaced or Replacement	Code Stampe		
EBB1SR1	GRINNELL	14734	N/A	C-220	N/A	REPAIRED	No		
	A STATE OF THE STA								
					-				
					-				
	Annual control of the second s	7. Descript	tion of Work	(AND ASSESSMENT OF THE PROPERTY OF THE PARTY			
EMOVED , REBUIL	T AND REINSTALLED G	and the same of th		PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS	P1).				
			Armen and remarks						
		Minutes of the Control of the Contro							
	100								
	- 4			THE PARTY OF THE P					
P Teste Conducted	: Hydrostatic (NO)	Pneumetic (NO)	Nomi	nal Operating Press	ure (N	Other (NO			
D. TRAIS CONGCINE		psi		est Temperature_		•F	1		
Pressure Relie				Size N/A		OVANOLO MENERO DE LA CONTRACTOR DE LA CO			
	Service_N/A					LILL BALL			
	Service N/A Opening Pressure N/A			Blowdown (If	applica	DIR) INA			
		em Adjustments M	ade Using	WA	applica	Market Care and the Care and th			

FORM NIS-2 /NR-1 / NVR-1	Page 2 of 2
9. REMARKS App	licable Manufacturers Data Reports to be Attached
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this	conforms to the rules of
the ASMÉ Code Section XI.	
Type Code Symbol NR Certificate of Authorization No. 20	Expiration Date 7-17-95
Signed Robert & Dorulla Quality Control Mana	5 6 APRIL 9 %
Signed Robert & Dorello Quality Control Mana	ger Date 3 A 19 /2
Carles of Carles and Carles of Carle	
CERTIFICATE OF INSERVICE INSPEC	TION
I the undersigned, holding a valid commission issued by the National Board of B	oiler and Pressure Vessel Inspectors in the
and amployed by WSBIAICO	OT Harttord CT
the appropriate described in this Owner's Report during the per	lod 4 o to 4 - 4 o , and state
that to the hest of my knowledge and belief, the Owner has performed examinat	ions and taken corrective measures
described in this Owner's Report in accordance with the requirements of the AS	ME CODE, SECTION AL
By signing this certificate, neither the inspector nor his employer makes any war	ranty, expressed or implied, concerning the
massives and corrective massives described in the Owners Heport, Further	more, neither the inspector nor his employ
shall be liable in any manner for any personal injury or property damage or a los	s of any kind arising from or connected with
this inspection	A A
Refer & Const. 4-6-93 Commissions NE Netto	NOGOZ (LNE) ALS COMMIN
Inspector's Signature Date Nation	nai Board, State, Province and Endorsements
Inspector's Signature	
CERTIFICATE OF COMPLIANCE	B.
We certify that the statements made in this report are correct and the repair, more relief device described above conforms to Section XI and Section III of the ASM	IF Code and the National Board rules as
defined in publications NB-65 and NB-102, current editions.	
Ceritficate 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	And the second s
Date19Signed Toledo Edison	Quality Control Mgr.
Repeir Organization Authorized Res	presentative Title
CERTIFICATE OF INSPECTION	
i, the undersigned, holding a valid commission issued by the National Board of	Boller and Pressure Vessel Inspectors, and
certificate of competency issued by the State or Province of Ohio	and subjuyed by
of Hartford. CT have inspected the repair, modification, or replacemen	nt described in this report
on 19 and state that to the best of my knowledge and bel	lef, 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.	
Decision this partificate patther the Inspector por his employer makes any we	arranty, expressed or implied, concerning th
and the transcript described in the report buildermore, held	HEL THE LUNCHUSTON HOLLING BUILDINGS STIGHT OF
liable in any manner for any personal injury or property damage or a loss of an	y kind ansing from or connected with
this inspection.	
ALCOHOL MANAGEMENT AND AND AND AND AND AND AND AND AND AND	stionel Board, State, Province and Endorsements
Authorized Inspector's Signature Date N	REMOVEMENT EXCENSES. CALABREA TO THE FORE THE PART SECTION OF THE PART OF THE

Desa

Authorized inspector's Signature

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo	Edison Company		Date 4/9/93				
300 Ma	dison Ave. Toledo, OH	43652	Shee	t 1 of 2			
2. Plant Davis	Besse Nuclear Power Sta	nion	Unit	#1			
	SR 2. Oak Harbor, OH 4		-	MWO 1-92 Repair Organization	-0717-	01	
	By Toledo Edison Com		Type	Code Stamp			1
	SR 2. Oak Harbor, OH 4			orization No.			
	Address			ation Date			
4 Identification of	Systems MAIN STEAM	SYSTEM					
(a) Applicable Co (b) Applicable Ec	onstruction Code ANSI B	31.1 Edit				Code Case	
	6. Identification of Comp		or Replaced	and Replacement (Compo	nents	
	AND CONTRACTOR OF THE PROPERTY						
Name of Component	Name of Manufacturer	Manufacturer's Serial MO.	National Board NO.	Other Identification/ Jurisdictional NO.		Repaired Replaced or Replacement	· ASME Code Stamped
EB8 - 1 - H1	GRINNELL.	18288	N/A	A - 42	N/A	REPAIRED	N/A
EBB - 1 - H1	GRINNELL	18292	N/A	A - 43	NA	REPAIRED	N/A
	CONTRACT AND THE SERVICE CONTRACT THE RESERVE AND ADDRESS OF THE SERVICE AN				-		
			1		-		
	I KC SALIBBERG A 42 AA	7. Descript			-1-H1	- DERINIT	
APPROPRIATE I LEVENCE ALL			MOTEUTH	TOTAL PAPER CON	- 1 - 111	, rubboning	
	TED . AND REINSTALL						-
	STED, AND REINSTALLE	AND DESCRIPTION OF THE PARTY OF	marrier ser author 17/4 menusament (24				
	RTED, AND REINSTALL						
	STED, AND REINSTALLI						
PRINNELL HYDRAU TUNCTIONALLY TES	STED, AND REINSTALLI						
	STED, AND REINSTALL						
UNCTIONALLY TES	Hydrostatic (NO) F	Prieumatic (NO)		nai Operating Press est Temperature		O) Other (NO)	
I. Tests Conducted:	Hydrostatic (NO) Pressure NA.	Preumatic (NO)					
B. Tests Conducted: Pressure Relief	Hydrostatic (NO) F	Preumatic (NO)		est Temperature	NA	*F	
B. Tests Conducted: Pressure Relief Sco	Hydrostatic (NO) F Pressure N/A Valves: ervice N/A	Prieumatic (NO)	T	Size N/A Blowdown (ff t	NA	ole) N/A	

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

FORM NIS-2 /NR-1 / NAR-1	Page 2 of 2
9. REMARKS Applicable Manufactu	irers Data Reports to be Attached
CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this conform the ASME Code Section XI.	ms to the rules of
Type Code Symbol NR Certificate of Authorization No. 20 Expired Signed Published Dynamics Designee, Title	19 93
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pres State or Province of Ohio and employed by H.S.B.I. & I. CO of have inspected the components described in this Owner's Report during the period Cell (4) that to the best of my knowledge and belief, the Owner has performed examinations and taker described in this Owner's Report in accordance with the requirements of the ASME Code, Sec	Hartford, CT 2 to 7/993, and state in corrective measures
By signing this certificate, neither the Inspector nor his employer makes any warranty, express examinations and corrective measures described in the Owner's Report. Furthermore, neither shall be liable in any manner for any personal injury or property damage or a loss of any kind a this inspection. Commissions Commissions National Board, State.	ed or implied, concerning the the Inspector nor his employe arising from or connected with
CERTIFICATE OF COMPLIANCE	OVERTICANO DE LA COMO DE POSA DE LA COMO DEL COMO DE LA COMO DE LA COMO DE LA COMO DE LA COMO DE LA COMO DEL COMO DE LA COMO DE LA COMO DE LA COMO DE LA COMO DE LA COMO DEL COMO DEL COMO DE LA COMO DE LA COMO DE LA COMO DEL
We certify that the statements made in this report are correct and the repair, modification, or relief device described above conforms to Section XI and Section III of the ASME Code and to defined in publications NB-65 and NB-102, current editions. Cerifficate of Authorization No. 316 to use the "VR" stamp expires Dec. 13	replacement of the pressure he National Board rules as
5.1.49	, 19 95
Certificate of Authorization No. 20 to use the "NR" stamp expires July 17 Date 19 Signed Toledo Edison Authorized Representative	Quality Control Mgr.
CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pre- certificate of competency issued by the State or Province of Ohio and employe	
of Hartford. CT have inspected the repair, modification, or replacement described in on19 and state that to the best of my knowledge and beset, this repair, has been made or constructed in accordance with Section XI and Section III of the ASME Corules as defined in the publication NB-65 and NB-102, current editions.	, modification, or replacement
By signing this certificate, neither the Inspector nor his employer makes any warranty, express repair, modification or replacement described in this report. Furthermore, neither the Inspect liable in any manner for any personal injury or property damage or a loss of any kind arising this inspection.	tor nor his employer shall be

Commissions _

Dete

Authorized inepector's Signeture

National Board, State, Province and Endorsements

1. Owner Toled	Edison Company		Date	4/23/93			Material Color II
300 M	adison Aye, Toledo, OH 4	3652	Shee	at 1 of 2			
Plant Devis-Besse Nuclear Power Station 5501 N. SR 2. Oak Harbor, OH 43449			Unit	#1			
				MWO# 1-93	2-0845	-00	
	By Toledo Edison Comp		Туре	Repair Organization Code Stamp			
	N. SR 2. Oak Harbor, OH 43			orization NO.			MICHIGAN IN STREET
	Address	Back to the State of the State		ration Date			
4. Identification of	SystemsCONTAINMENT	VESSEL SYSTE	М				
(b) Applicable 8	Construction Code ASME III Edition of Section XI Utilized	for Repairs or R				Code Case N	/A
	6. Identification of Compo		or Replaced	and Replacement C	Compo	nents	AMERICANIA (ATT AND AND
Name of Component	Name of Manufacturer	Manufacturer's Serial MO.	National Board MO.	Other Identification/ Jurisdictional RO.	Year Built	Repaired Replaced or Replacement	ASME Code Stamped
NUT	SPECIAL T METAL	HT# 4304	N/A	SC 89-9822	N/A	REPLACEMENT	N/A
BOLT	NOVA MACHINE PROD.	HT# 33293/J7P	N/A	SC 15-2247	N/A	REPLACEMENT	N/A
	NE NUT WERE REPLACED EPLACEMENT MATERIAL NUT, 1 1/4" - 8 HEX, MA TOLEDO EDISON SC 8 BOLT, HEX HEAD, 1 1/4 TOLEDO EDISON SC 8	USED IS IDENTII ANG. BRONZE PE 89-9622, BAW OR 4"-8X6", SA 193 (RANSFER THE PROPERTY OF THE PR	TUBE MECHANICAL XLLOWS: 23 HH CLASS A241- 170678, TRANSFER ASS 1, PO # C6095	A, PO	# Q53077 COVER HEX NUT	
Pressure Relia		vn Adjustments M	ade Using	interior :	pplical	ble) N/A	

	LOUM MIS-5	/NR-1 / NVR-1		Page 2 of 2
	9. RE	MARKS A	opécable Mazurtactur	ers Data Reports to be Attached
EE ATTACHED DATA REPORTS.				
			THE RESERVE OF THE PERSON OF T	
Acceptance of the Control of the Con	CERTIFICATE	OF COMPLIANCE	E	
We certify that the statements made in the the ASME Code Section XI.	e report are correc	t and this	conform	s to the rules of
Type Code Symbol NR Cert	tificate of Authoriz	ation No. 20	Expira	tion Date 7-17-95
Signed Robert & Drame Owner or Owner	s Designee, Trile	ality Control Man	ager Date 2	4 APRIL 1993
	Carried Control of the Control of th	NSERVICE INSPE		State of the state
I, the undersigned, holding a valid commission of Province of Ohio and enhance inspected the components described that to the best of my knowledge and belief described in this Owner's Report in according	nployed by H I in this Owner's R of, the Owner has I	S.R.I. & I. CO. eport during the per performed examine	ofonod2-11-93 ations and taken	Hartford, CT to 4-24-95, and state corrective measures
By signing this certificate, neither the Inspectaminations and corrective measures destable liable in any manner for any personant inspection.	scribed in the Own	er's Report. Furth orty damage or a lo	ermore, neither iss of any kind a	the inspector nor his employer rising from or connected with
Replied & Conditional Inspectors Signature	4-24-93 Date	Commissions Nat	BIO 172 (A ional Board, State, F	Province and Endorsements
We certify that the statements made in the relief device described above conforms to defined in publications NB-65 and NB-102	s report are corre	ection III of the AS	nodification, or re	placement of the pressure e National Board rules as
Cerifficate of Authorization No. 316	to use the "V	R" stamp expires	Dec. 13	19 95
Certificate of Authorization No. 20	to use the "h	IR* stamp expires	July 17	19 95
Date 19 Signed	Toledo Edison Repeir Organization	Authorized Ri	apresentative	Quality Control Mgr.
	CERTIFICAT	E OF INSPECTION	N	
I, the undersigned, holding a valid commit				sure Vessel Inspectors, and
certificate of competency issued by the S	State or Province of	1 Ohio	and employed	i by _ H. S. B. I. & I. CO.
of Hartford, CT have inspected to	the repair, modific	ation, or replaceme	ent described in t	this report
on 19 and state that has been made or constructed in accordurates as defined in the publication NB-65	ance with Section	XI and Section III	elief, this repair, of the ASME Co.	modification, or replacement de and the National Board
By signing this certificate, neither the Insprepair, modification or replacement described in any manner for any personal injuthis inspection.	ribed in this report	Furthermore, ner	ther the Inspecto	r nor his employer shall be
		Commissions		r# (.:
Authorized Inspector's Signature	Date			e, Province and Endorsaments

FORM NIS-2 / NR-1 / NVR-T OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

	Edison Company	AND THE PARTY OF T		4/7/93		An Paris Laboratory	and the same
_300 Me	dison Ave. Toledo, OH 4	3652		t 1 of 2			
. Plant Davis-	Besse Nuclear Power Sta	tion	Unit	*1			
5501 N	SR 2. Oak Harbor, OH 4	3449		MWO 1-92 Repair Organization	-0950-	Job No., etc.	
Work Performed	By Toledo Edison Comp	pany	Туре	Code Stamp			
	SR 2 Oak Harbor, OH 4		Autho	prization NO.		20	and the same of the same of
serveyer fledibude of united	Address		Expir	ation Date	7-17-	95	
Identification of	Sustants MAIN FEEDWA	TER SYSTEM					
	Systems MAIN FEEDWA						
(a) Applicable C	Construction Code ANSI B	31.1 Editi	on 19 57	Addendum		Code Case	
(b) Applicable E	dition of Section XI Utilize	d for Repairs or R	eplacemen	ts 19 86			
	consibilities ITT GRINELL						
(c) Design Hest							
	6. Identification of Comp	onents Repaired	r Replaced	and Replacement (Compo	nents	
ame of Component	Name of Manufacturer	Manufacturer's Serial NO.	National Board NO.	Other Identification/ Jurisdictional NO.		Repaired Replaced or Replacement	ASMO Code Stamp
EEB-3-SR25A	GRINNELL	12850	NIA	C-181	NA	REPAIRED	N/A
EBB-3-SR24A	GRINNELL	12484	N/A	C-179	N/A	REPAIRED	NA
EBB-3-SR20	GRINELL	12493	N/A	C-254	N/A	REPAIRED	NA
					-		
					+		-
		7. Descrip	tion of Worl	K	-		-
RIINNELL HYDR	AULIC SNUBBERS S/N'S				WERE	REMOVED FROM	THE
NN FEEDWATER	SYSTEM, REBUILT, FUI	NCTIONALLY TES	STED AND	RE-INSTALLED.			
			Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Ma			-	
			AND THE RESERVE OF THE STATE OF		-		
						-	
. Tests Conducted	d: Hydrostatic (NO)			inal Operating Press Test Temperature)
December Delic	Pressure NA	psi		lest remperature			
Pressure Relie				Size NA			
	Opening Pressure N/A			Blowdown (if	applica	ible) N/A	
	Spenning resoure IVA		Inda Heine				
	Cat Dressure and Blouds	WITH AMILIEPPENAMED BY					
	Set Pressure and Blowdo	wn Adjustments N	nade Using,	1 7	set Bedi	. 1	

Page 53
of 2
o be Attached
of
7-95
19 93
AND THE PROPERTY OF THE PROPER
pectors in the
23, and state
asures
oncerning the
or his employer onnected with
HIC
rsements
-
the pressure and rules as
II UIU I III
pr.

	FORM NIS-2 /NR-1 / NVR-	1	Page 2 of 2
	9. REMARKS	Applicable Manufactur	ers Data Reports to be Attached
	CERTIFICATE OF COMPLIAN	E	A THE RESIDENCE AND ADDRESS OF A SHARE THE PARTY OF THE RESIDENCE AND ADDRESS OF A SHARE AND ADDRESS OF THE PARTY OF THE P
We certify that the statements made in the ASME Code Section XI.	the report are correct and this	conform	s to the rules of
Type Code Symbol NR	Certificate of Authorization No. 20	Expira	tion Date 7-17-95
Signed Robert & Doore	26	4	12/11/ 97
Signed / office Owner or Owner	Quality Control Ma	nager Date	APRIL 1993
	The Court of the C		MARKET AND THE CONTRACT OF THE
	CERTIFICATE OF INSERVICE INSP	ECTION	
I, the undersigned, holding a valid com	mission issued by the National Board o	Boiler and Press	ure Vessel Inspectors in the
State or Province of Ohio and	employed by HSBL&LCO	of	Hartford CT
have inspected the components descri	bed in this Owner's Report during the p	eriod 2-/-93	to 475-23, and state
that to the best of my knowledge and b	pelief, the Owner has performed examin	nations and taken	corrective measures
described in this Owner's Report in acc	cordance with the requirements of the	ASME Code, Sect	ion XI.
By signing this certificate, neither the Ir	annotar our his amniouer makes any w	arranh/ ovnrocco	d or implied concerning the
by signing this certificate, heither the in examinations and corrective measures	described in the Owner's Report Furt	harmore neither	the inspector per his employ
snall be liable in any manner for any pe	ersonal injury or property damage or a	oss of any kind at	ising from or connected with
this inspection.	ordering rightly or property according		
	1		
(Kutmond N. Acm	Commissions	10-7551	N I CHIC
Inspectors Signature	Date N	stional Board, State, P	rovince and Endorsements
		ALTERNATION OF THE PARTY OF THE	
	CERTIFICATE OF COMPLIAN	CE	
We certify that the statements made in	this report are correct and the report	modification or re	placement of the pressure
relief device described above conform	s to Section XI and Section III of the Al	SME Code and the	e National Board rules as
defined in publications NB-65 and NB-			
Cerifficate of Authorization No. 316	to use the "VR" stamp expires	Dec. 13	19 95
20		July 17	19 95
Certificate of Authorization No. 20	to use the "NH" stamp expires	3517 17	19 55
Date, 19 Sign	ed Toledo Edison		Quality Control Mgr.
Date Sign	Repair Organization Authorized	Representative	Thie
			Militaria de la companio della compa
	CERTIFICATE OF INSPECTIO	N N	
I, the undersigned, holding a valid com	nmission issued by the National Board	of Boiler and Pres	sure Vessel Inspectors, and
certificate of competency issued by th	e State or Province of Ohio	and employed	by M. S. B. I. & I. CO.
. Hartford CT	ad the second second was a second	and standard to a	his somet
of Hartford, CT have inspecte	ed the repair, modification, or replacem	ent described in t	лів героп
on 19 and state	that to the heat of our knowledge and h	aliaf this rannir	modification or replacement
has been made or constructed in acco	ordance with Section XI and Section III	of the ASME Cov	le and the National Board
rules as defined in the publication NB-		J. DIE PROME GOV	THE RESERVE THE SECOND
By signing this certificate, neither the I	Inspector nor his employer makes any	warranty, express	ed or implied, concerning the
repair, modification or replacement de	scribed in this report. Furthermore, ne	ither the inspecto	r nor his employer shall be
liable in any manner for any personal	injury or property damage or a loss of	any and arising fr	om or connected with
this inspection.			
	Commissions		
Authorized Ingravers Clares	Date	OTHER CONTRACTOR OF STREET	Province and Endorsements
Authorized Inspector's Signature	LPB19	- THE REST WAS DESCRIBED TO A STREET	The second secon

1. Owner Toledo	Edison Company		Date	2/23/93	-		
300 Ma	dison Ave. Toledo, OH	13652	Shee	t 1 of 2			
	Besse Nuclear Power Sta		_ Unit	#1			-
	SR 2. Oak Harbor, OH 4			MWO# 1-92 Repair Organization	2-1006-	00	
	By Toledo Edison Com			Repair Organization Code Stamp			
				orization NO.			
5501.N	SR 2. Oak Harbor, OH 4			ation Date			
4. Identification of	SystemsCTMT. SPRAY	DISCHARGE LIN	E SUS#	061-01			
	onstruction Code ANSI B					Code Case N	A
	onsibilities ITT GRINNEL		ent trought reason terminal advanced				-
	6. Identification of Comp	onents Repaired o	y Replaced	and Replacement (Compo	nents	
Hame of Component	Name of Manufacturer	Manufacturer's Serial MO.	National Board NO.	Other Identification/ Jurisdictional MO.	Your Built	Remaired Replaced or Replacement	ASME Code Stampe
A-63	ITT GRINNELL	SN# 21304	N/A	34-QC8-5-H32	N/A	REPLACED	No
A-93	ITT GRINNELL	SN# 18380	N/A	34-QC8-5-H32	N/A	REPLACEMENT	No
A-82	ITT GRINNELL	SN8 14150	NA	34-QC8-5-H32	NA	REPLACED	No
A-92	ITT GRINNELL.	SN# 16150	N/A	34-9C8-5-HB2	HVA	MEPLACEMENT	No
		7. Descript				MALL V TECTED D	PIOP
The second secon	ERS WERE REPLACED	MITH SPARE SHU	SSERE, O	P WHICH WERE PU	WC I FO	MAKET TESTED P	nion
TO INSTALLATION		and provide the second region of the second region of the			NAME OF TAXABLE PARTY.		
	en montanta describir de presenta de la composição de la	AND THE RESIDENCE OF THE PARTY			***************************************		
e a proportion de la compact d							
	of the control of the						
	Augustin de la company de la c	Chinese and the contract of th			-	BERKENSON FOR CONTRACTOR	
			ALC: THE RESIDENCE OF THE PERSON			MILLIANS AND STREET, S	
8. Tests Conducted	Pressure N/A	Pneumetic (NO)		nat Operating Press Test Temperature	N/A	of Other (NO)
Pressure Relie	f Valveer					80	
S	Service_WA			Size_WE	-		
	pening Pressure N/A	CHANGE OF THE STREET, SALES OF THE SALES OF THE SALE		Blowdown (H	applica	Die) NA	
	Set Pressure and Blowdon	en Adjustments M	ade Using_	N/A (7	nert Moditiv	et 1	
	I N/A			ocation)			
Information is its	sheets in the form of li e 1 through 6 on this rep ed at the top of this for	DOLC TO THE THORNE A	denselven a	way he used, provid	*6 (1) se: 10	size is 8% x 11	

	FORM NIS-2 /NR-1 / NVA-1	Page 2 of 2
		cable Manufacturers Data Reports to be Attached
NONE	Арри	ebre mediciners base negons to be Attached
Mo continuent the statements made in	CERTIFICATE OF COMPLIANCE the report are correct and this replacem	and conforms to the suize of
the ASME Code Section XI.	the report are correct and this replacement	att comorns to the rules of
Type Code Symbol NR		Expiration Date 7-17-95
Signed Robert & Dorall	Quality Control Manag	er Date 24 FEB 1993
Owner or Own	ner's Designes. Title	Date 10
	CERTIFICATE OF INSERVICE INSPECT	ION
the undersigned holding a valid comm	nission issued by the National Board of Bo	
State or Province of Ohlo and	employed by H.S.B.L.&I.CO.	of Hartford CT
have inspected the components describ	ped in this Owner's Report during the perio	d 8-21-92 to 2-25-93 , and state
described in this Owner's Report in acc	elief, the Owner has performed examination ordance with the requirements of the ASM	E Code, Section XI.
By signing this certificate, heither the in	spector nor his employer makes any warra described in the Owner's Report. Furthern	nore, neither the inspector nor his employe
shall be liable in any manner for any pe	rsonal injury or property damage or a loss	of any kind arising from or connected with
this inspection.		
Robut E Cook	2/25/43 Commissions NB1	099Z(ANI) oho Commu
Inspectors Signature		Board, State, Province and Endorsements
	CERTIFICATE OF COMPLIANCE	identian or repleasment of the system
We certify that the statements made in relief device described above conforms	this report are correct and the repair, mod to Section XI and Section III of the ASME	Code and the National Board rules as
defined in publications NB-65 and NB-1		
Cerifficate of Authorization No. 316	to use the "VR" stamp expires	Dec. 13 19 92
		And the second s
Certificate of Authorization No. 20	to use the "NR" stamp expires	July 17 19 95
Date 19 Signe	d Toledo Edison	Quality Control Mgr.
	Repeir Organization Authorized Repre	sentative Title
		AND DESCRIPTION OF THE PROPERTY OF THE PROPERT
	CERTIFICATE OF INSPECTION	Additional Consequence of Committee Control
I the undersigned, holding a valid com-		siler and Pressure Vessel Inspectors, and
	mission issued by the National Board of Bo	
certificate of competency issued by the	mission issued by the National Board of Bo	and employed by H. S. B. I. & I CO
certificate of competency issued by the	State or Province of Ohio at the repair, modification, or replacement	described in this report
certificate of competency issued by the of Hartford. CT have inspected on 19 and state the	State or Province of Ohlo at the repair, modification, or replacement of the best of my knowledge and belief	described in this report this repair, modification, or replacement
certificate of competency issued by the of Hartford. CT have inspected on 19 and state the has been made or constructed in according	state or Province of Ohlo at the repair, modification, or replacement of the best of my knowledge and belief reaches with Section XI and Section III of the	described in this report this repair, modification, or replacement
certificate of competency issued by the of Hartford. CT have inspected on 19 and state the has been made or constructed in according to the publication NB-6	state or Province of Ohlo and the repair, modification, or replacement of the best of my knowledge and belief reaches with Section XI and Section III of the	described in this report this repair, modification, or replacement ASME Code and the National Board

liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with

Date

Commissions

National Board, State, Province and Endorser «

this inspection.

Authorized Inspector's Signature

As Required by the Provisions of the ASME Code Section XI

1. Owner Toledo	Edison Company		Date	4/28/93			-
300 Ma	dison Ave. Toledo. OH 4	3652	Shee	1 of 4			
2. Plant Devis-	Besse Nuclear Power Stat	lon	_ Unit_	*1	adent de minere		
5501 N	SR 2. Oak Harbor, OH 43	1449	-	1-93-02 Repair Organization	27-00	lob No. els	
	By Toledo Edison Comp		Турв	Code Stamp			
	SR 2. Oak Harbor, OH 43		Autho	rization NO.	2	10	
X2X1.1.1	Address		Expir	ation Date	7-17-0	6	
	Systems MAIN STEAM						H.,
(a) Applicable C (b) Applicable E	onstruction Code ASME III dition of Section XI Utilized onsibilities CONTROL CO	for Repairs or R	epiacemen	Addendum \$72 bs 19 86		Code Case N	2
(c) Design Hesp	6. Identification of Compx			and Replacement	Compo	nents	
Name of Component	Name of Manufacturar	Manufacturer's Sex al NO.	National Board MO.	Other Identification/ Jurisdictional BO.	Built	Repaired Replaced or Replacement	A.SM Cod Stam
LUG ASSEMBLY	CONTROL COMP. INC.	M327890	NA	AVV-CS11A	1992	REPACEMENT	Ye
1/2"NUT	NOVA	NA	NA	SA194GR2H	1986	REPLACEMENT	No
					+		-
		A ANNA DESCRIPTION OF THE PARTY					
	SSEMBLY AND ONE1/2"	7. Descrip	tion of Wor	K ARREAGEN	EOD V	NI VE AVV JOSTI	
Pressure Relie	Pressure 910	Pneumatic (NO)		inal Operating Presi Test Temperature	NOT	°F))
				Blowdown (If	applica	uble) NA	
	Opening Pressure NA	AND THE PARTY OF T					
	Opening Pressure 198 Set Pressure and Blowdon	en Adjustments N	lade Using	NA.	Twert. Black!	1980 I	

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

	FORM NIS-2 /NR-1 / NVA	Page 2 of 4
SEE N-2 DATA FORMS FROM CONTRO	9. REMARKS OL COMPONENTS INC. ATTACHED.	Applicable Manufacturers Data Reports to be Attached
	CERTIFICATE OF COMPLIAN	VCE
We certify that the statements made the ASME Code Section XI.	in the report are correct and this repli	conforms to the rules of
Type Code Symbol NR Signed Robot ED	Certificate of Authorization No. 20 Quality Control M Owners Designee, Title	Expiration Date 7-17-95 Anager Date 28 APRIL 19 93
n communicative de sectional contraction de des des de communicatives de communicative de communicative de des	CERTIFICATE OF INSERVICE INSI	PECTION
State or Province of Ohio are have inspected the components described to the best of my knowledge and	nd employed by HSBI&ICO cribed in this Owner's Report during the	period 3/5/95 to 4/28/93, and state inations and taken corrective measures
examinations and corrective measure	es described in the Owner's Report. Fu	warranty, expressed or implied, concerning the rthermore, neither the Inspector nor his employer loss of any kind arising from or connected with
Raymond N. Aco.	Date Commissions	NB-9557-N, T, OHT C
	CERTIFICATE OF COMPLIA	NCE
	ms to Section XI and Section III of the A	, modification, or replacement of the pressure ISME Code and the National Board rules as
Cerifficate of Authorization No. 3	16 to use the "VR" stamp expire	6 Dec. 13 19 95
Certificate of Authorization No. 2	to use the "NR" stamp expira	us July 17 19 95
Date 19 Sig	ned Toledo Edison Repeir Organization Authorized	Quality Control Mgr. Representative Title
	CERTIFICATE OF MISPECTI	ON
, the undersigned, holding a valid co	mmission issued by the National Board	of Boiler and Pressure Vessel Inspectors, and
certificate of competency lesued by t	the State or Province of Ohlo	and employed by H. S. B. I. & I. CO.
of Hartford CT have inspec	cted the repair, modification, or replacer	ment described in this report
	cordance with Section XI and Section II	belief, this repair, modification, or replacement I of the ASME Code and the National Board
repair, modification or replacement d	sescribed in this report. Furthermore, no	warranty, expressed or implied, concerning the either the inspector nor his employer shall be any kind arising from or connected with
	Commission	
Authorized Inepector's Signature	Date	Nettonal Board, State, Province and Endorsements

	DIAMOND POWER SP	CEDURES		
			ITEM NO.	588
	MUCLEAR	and a second control of the second se	SECTION	7,811
UBJECT:	ADDREST - MALIAN AND AND THE STATE OF THE ST		PROC. NO.	T-103
lata She	ets for Hydrostatic Test of the	e Closure	PAGE NO.	15
	ents Only (Reference: Paragr		DATE	4/9/76
			REVISION	0
. Se	rial number of closure compo	nents:		
	Closure insert serial number		70	
	Closure Nut serial number			-
C.	Square Head Screw serial n	umbers 96 8 5	49. 476 - 44	3-467.45
	Vent Valve Assembly serial			
	Vent Plug serial number	ACCORDING TO A STATE OF THE PARTY OF THE PAR		
	ressure test gage serial number			
	rdro Fixture temperature prio	r to filling '	90	or
	ater temperature prior to filli	ng 73		ok
	abilized test temperature		F	
. Ac	tual hydrostatic test pressure	7450	paig	
. Re	sults of visual inspection for	leakage (No les	ikage allowed):
Α.	Vent Valve Assembly	04	-	
. St	abilized test temperature		or.	
. Ke	esults of visual inspection for		tkage allowed	1):
Α.		OK		
	Regions around openings			
	Transition welds	O.K		
	Seal areas			
. F.	SEARING FLATE -S	2 # 7		
				1582
			111	- 2
	DP!	SC Inspector	Secretary	97
	4 5/1	SC Inspector	Dr. 160	
	AN			
			25	
	Dat	e 12-16-		

DP-6229

9 oF 13



74

MILL CERTIFICATION INDEX FOR 704282-1145 MOTOR TUBE CAPS FOR PCE - 507601-N

CRDM MO.	Part	BERIAL	PURCHASE ORDER NO.	NEAT
1601	704282-1145	076	45000-C	3963649
1603	704282-1145	065	45000-C	3963619
1603	704282-1145	068	45000-C	3963649
1604	704282-1145	670	45000-C	3963649
1605	704282-1145	064	45000-C	3963649
1606	704282-1145	069	45000-C	3963649
1607	704282-1145	071	45000-C	3963649
1608	704282-1145	062	45000-C	3963649
1609	704282-1145	677	45000-C	3963649
1610	704282-1145	079	45000-C	3963649
1611	704282-1145	022	45000-C	3963650
1612	704262-1145	027	45000-C	3963650
1613	706282-1145	023	45000-C	3963650
1614	704282-1145	026	45000~C	3963650
1615	704282-1145	025	45000-C	3963650
1616	704282-1145	081	45000-C	3963649
1617	704282-1145	019	45000-C	3963650
1618	704282-1145	029	45000-C	3963650
1619	704282-1145	073	45000-C	3963649
1620	704282-1145	072	45000-C	3963649
1621	704282-1145	058	45300-C	3963649
1622	704282-1145	054	45000-C	3963649
1623	704282-1145	074	43000-C	3963649
1624	704282-1145	056	45000-C	3963649

PAGE LEL OF 122

10 .F 13

MILL CERTIFICATION INDEX FOR 704285-1142 MOTOR TUBE BASE FOR PGE - 507601-N

CRDR	Part Number	SERIAL NUMBER	PURCHASE ORDER NO.	NEAT
WO.	704285-1142	012	45000-C	3963650
1601		001	45000-C	3963650
7605	764285-1142	005	45000-C	3963650
1603	704285-1142	008	45000-C	3963650
1604	704285-1142		45000-C	3963650
1605	704285-1142	013	45000-C	3963650
1606	704285-1142	011		3963650
1607	704285-1142	009	45000-C	3963650
1608	704285-1142	010	45000-C	
1609	704285-1142	014	45000-C	3963650
LOLU	704285-1142	017	45000-C	3963650
1611	704285-1142	023	45000-C	3963650
1612	704205-1142	018	43000-C	3963650
1613	704285-1142	007	45000-C	3963650
	704285-1142	015	45000-C	3963650
1614	704285-1142	016	45000-C	3963650
1615	704285-1142	620	45000-C	3963650
1616		021	45000-C	3963650
1617	704285-1142	024	45000-C	3963650
1618	704285-1142	025	45000-C	3963650
1619	704285-1142	027	45000-C	3963650
1620	704285-1142		45000-C	3963649
1621	704285-1142	040		3963649
1622	704285-1142	039	45000-C	3963650
1623	704285-1142	026	45000-C	3963650
1624	704285-1142	002	45000-C	3963630

PAGE 62 OF 122

ALTE MCWINES

JUITS O JOHN THE THE THE LABOR TORY & HELD TACHTERS

JUITS O JOHN THE THE THE LABORATORY & HELD FACHITHS

RGC HERA LORIC MERFECTION

		Beton			physical Tele materials to appropriate constitution on agreeming depart
pages no capable or state i agranuteum automotivament	45000-C		6-25-7		64172-00
P.O. BOX 415	OCK & WILCOX CO.		٦ ٦	260	SAME DE. MAIN ST.
ME SA-182F-304). FORM 5503 REV. 11-19-	304 VAR	/	36 PCS. 36 PCS.	BASES	6480# 2160#
04285-1647 REV. B AND 70	04285-1548 REV.	A /	PER DV	G.	001 THRU 036
ST WATER QUENCHED - H	T. CHART ATTACH	1ED	-		construction approximate the construction of the con-
THE WOOD INTERFERENCE AGE	- many	- Management	LARD LAR	1	P
6 2 3963650 .073 1.4	0 .028 .004	.53	18.45	9.83	
	.10				
Desirable of the second	BOY C M SPECA	LERQES RI	AMA CO	MARRING SS	100 Signature of S
mo mo	5 80 101 PEWBE 8 P 8 1	60.0	80.4	Street ReduC	K-C ARMITY
	,,000 00,000	/			
ATERIAL FREE FROM MERCUI ATERIAL AND TESTS MEET OLSECTION III DIVISION	THE REQUIREMENTS	ODE WI	THOUT	(11-18-7)	OR CLASS 1 VESSELS
			7m		MESOD BE (13)
MEPUBLIC	1				UN 3 0 1975
DED TITLE REVO 177.	MEV. 48(2-6-76)	SUMPLIES THE BOOKS NOW!			
AND ATTACHMENT 64	ETTACHED	SPEE ALA	-	- CANADA - AND AND AND AND AND AND AND AND AND AND	
		COLUMN T	w DER	PROC. NO.	62914, REV. 18(6-
PARTONIA GOOD PER A262	PH ATTACHED	strains, roles do t	ME BELLIO	TTWTTWW.	IN NO. OF THE REAL PROPERTY OF THE PER
LARGODIAN BYAR PHOTOMICROGRA	Dust and the country is an	D You got some or you	San Me Grand	PRIES STEEL	CMP ATH
		736 dd	,	Latiberang PELS Life	general 2 no 122
					PAGE LAS OF LINE

12 OF 13

0 0 5 10 0 8 7 1

133

Babcock & Wilcox

13 OF 13

Disamend Penrer

P G. Bec 415, Lancapear, Onic 43130 Tecaporare: (614) 663-6640

NONDESTRUCTIVE EXAMINATION CERTIFICATION PRESSURE BOUNDARY COMPONENTS

BADCOCK AND NILCOX COMPANY, NUCLEAR VIRGINIA
DADCOCK AND WILCOX COMPANY, NOCLEAR OF THE CUSTOMER POWER GENERATION DIVISION, LYNCHBURG, VIRGINIA
BAW Contract No. 620-0024 B&W Purchase Order No. 028282LG
Diemond Power Sales Order No. 307601W
Control Rod Drive Mechanism No.'s 1601 thre 1660
This is to certify that the pressure boundary components of the above CRDM's were nondestructively examined in accordance with the ARME Boiler & Pressure Vessel Code 1974 Edition with no eddends, utilizing the procedures outlined below and the components were acceptable.
Liquid Penetrant
Visible Flourescent
OC-8 Issue 3 thru 7 AS-2 Issue 5 thru 7
Magnetic Particle
QC-49 Issue 1 thru 2 As-H-21 Issue 2
Radiographic
705310-1130 Rev A *QC-17 Issue 3 705311-1139 Rev. A *QC-16 Issue 7 705312-1138 Rev. A *Longitudinal at *I4db sensitivity As-R-13 Issue 2 As-B-14 Issue 3
Package for individual component test results
and personnel qualifications.
March 17. 1978
PMCE_122 OF 122
Demone Power a subsidiary of Belecock & Wilcox

[871

()

BW Nuclear Service Company Engineering & Plant Service Division

CERTIFICATE OF COMFORMANCE

DRIGINGL/REFEREN	CED BAN SPECIFICATI	CUST. C.D. NO. (8) 1
TOP DONTE TE	PARTON DOCUMENT(S)	1 21-1001171-0
DALL CONTROLL MO	708-7089070	DA DATA PACKAGE NO. 1
BAN ORDER NO. :	03140% E	BAW CO. C. NO. (5) 1 01-01
ASME III Certifi	cate of Authorizati	ion No. N-1650 expires 1/21/92.
CUSTOMER	B&W P. D.	
DIY LIEM NO.		P/N 10-005 CRDM Hold Down Bolt Assy.
225 1	1 100611	HT# 20233-2 (Boltm)
		HT# 8060748 (Washers)
MEREBY CERTIFIES WITH THE APPLIC MENTS AND ARE IN ORIGINALLY SUPPL	CABLE CODES, SPECIF VIERCHANGEABLE IN FI LIED, UNLESS OTHERW	heen reviewed by EPS OA and fo
The referenced (and the same of th	
acceptable, exce	ept as noted below. y result in equipme DS DA Department.	. Nonconformance to referenced ent being released to ship in a QR
ecceptable, exceptable, except	ept as noted below. v result in equipme	ent being released to ship in a Q2
acceptable, exc requirements may status by the El Nonconformance	result in equipments: 'to requirements:	ent being released to ship in a Q2
ecceptable, excrequirements may status by the El Nonconformance	result in equipments: 'to requirements:	ent being released to ship in a QR : N/R olved as follows: N/R
ecceptable, excrequirements may status by the El Nonconformance	ppt as noted below. y result in equipme DE DA Department. 'to requirements: s) will be/was reso	ent being released to ship in a QR in N/R olved as follows: N/R
ecceptable, excrequirements may status by the El Nonconformance	ppt as noted below. y result in equipme PS DA Department. 'to requirements: s) will be/was reso de because:N/A	ent being released to ship in a QR : N/R olved as follows: N/R

[308]



SSED STEEL CO . JENKINTOWN PENNA 19046

CERTIFICATE OF CONFORMANCE

Fig. assists not excessed by OAA assert-Bouget high bypes invited in an eventure of end by become found to recent the experimentals expectationary to the day servant. An earlier pays from the other pays from the other pays from the experimental business of the experimental pays of the experiment

THE HALICOCK & WILCOX COMPANY POWER PENEMATION GROUP P.O. 183X 1260 LYNCHURE, VIRGINIA 24505

PAGE 1 UF 2

CONTRACT #620-0017

OSIAOSLE CO'83

DWG. #139006D REV.5
CROM HOLD DOWN BOLT SHOP ORDER # 650660- 04

THE FINISHE FRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES INTAINED IN THE BLUEFTINT, PURCHASE ORDER CHANGE #2. 08-1087000001 REV.04 9/76, PURCHASE

RAW MATERIAL SPICE ASME SA-403 GR. 660 CL.A. PURCHASED FROM:

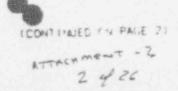
OHEMISTRY: MILL REPORT ATTACHED.

OHEMISTRY: M

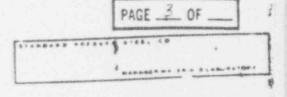
LITHASONIC INSPECTION PERIONNED BY SPS CO. TO ASME ART. NB-2000 AND APPROVED INDOCEDURE UT-60010 9/4/75 REV.C 3/24/77. 1005 OF BARS TESTED AND ACCEPTED.

- Michael British 18 32/70 3

- *.0 MANULACTURING, PERFORMED BY SPS CO. IN ACCORDANCE WITH APPROVED PRICEDURE M-77365-5
- ACCUMPANCE WITH AT PENFORMED BY PRECISION HEAT TREAT CO. TO ASME SA-453 GR. 660 CL.A IN ACCUMPANCE WITH ATMOSP PROCEDURE HT 77365-5 2'18/77 HEAT TREAT SUMMARY: SULUTION AT 16:00F, HOLD FOR 2 HOURS MIN 7:01L QUENCH/ AGE AT 1325/0F, HOLD FOR 16 HOURS MIN AIR.







STANDARD PRESSED STEEL CO . JENKINTOWN PENNA 18046

CERTIFICATE OF CONFORMANCE

The counterfor or closed by this senterforced has been benter to an excellence or in excellation became in the communities was not only the counterforce and not considered and communities the communities and notice and only the counterforce and the counterforce

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP
P.O. BOX 1260
LYNCHOURG, VIRGINIA 24505

PAGE 2 OF ?

CONTRACT #620-0017

THE PRODUCT NUMBER OF DESCRIPTION LABORATORY CONTROL NUMBER

(CONTINUED FROM PAGE 1)

ALO LIQUID PENETRANT INSPECTION: OF CROM BOLTS PERFORMED BY SPS CO. TO ASME SUB. ART.

NB2580 AND APPROVED PROCEDURE PT69805 7/30/75 REV.A 6/4/77. 100% TESTED AND

ACCEPTED.

DC STRUCTIVE TESTING INSPECTOR

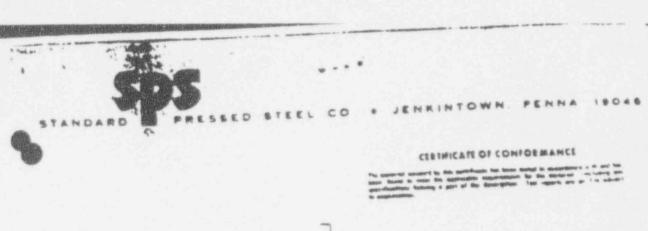
CLIANING PERFORMED BY SPS CO TO APPROVED PROCEDURE C-77365-1 3/21/77 REV.B 7/13/77.

. . O MECHANICAL TEST RESULTS : SEE ATTACHMENTS .)

30

ATTACHMENT - 2

Sean a Dantt



THE DAUCOCK & WILCOX COMPANY POWER GENERATION GROUP P.O. BOX 1260 LYNCHRURG, VIRGINIA 24505

PAGE 1 OF 2

CONTRACT #620-0017

OSTAOSLE CO 63 DIAGRATION SONTEGI NUMBER

PRODUCT NUMBER OF DESCRIPTION TABLES OF THE PROPERTY FOR THE TABLE TO THE PROPERTY FOR THE

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES

NTAINED IN THE BLUEFRINT, PURCHASE ORDER CHANGE \$2, 18-106700000; REV. 04 . 9/76.

NTAINED IN THE BLUEFRINT, PURCHASE ORDER CHANGE \$2, 18-106700000; REV. 04 . 9/76.

24-1001318 REV. 00 12-76

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES

NTAINED IN THE BLUEFRINT, PURCHASE ORDER CHANGE \$2, 18-106700000; REV. 04 . 9/76.

24-1001318 REV. 00 12-76

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES

NTAINED IN THE BLUEFRINT, PURCHASE ORDER CHANGE \$2, 18-106700000; REV. 04 . 9/76.

AND ACCEPTED TO: THE APPLICABLE NOTES

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE NOTES

THE FINISHED PRODUCT WAS MANUFACTURED.

THE

1.0 RAW MATERIAL: SPEC., ASME SA-453 GR. 860 CL.A. PURCHASED FROM: ALTON.

1.0 RAW MATERIAL: SPEC., ASME SA-453 GR. 860 CL.A. PURCHASED FROM: ALTON.

1.1 LIQUID PENETRANT INSFECTION: PERFORMED BY SPS CO. TO ASME SUB. ART. MB2580,

1.1 LIQUID PENETRANT INSFECTION: PERFORMED BY SPS CO. TO ASME SUB. ART. MB2580,

AND APPROVED PHOCEDURE PT69805 7/30/75 REV.A 4/4/77. 1000 IF BARS TESTED

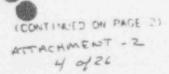
AND ACCEPTED.

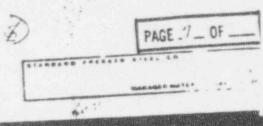
NON-DESTRUCTIVE TESTING INSPECTOR

PROCEDURE UT-60010 9/4/75 REV.C 3/24/17. 1308 OF BALS TESTED AND ACCEPTED.

MACHINETT IN THE STANDARD PROTOR

- 2.0 MANUFACTURING MERFORMED BY SPS CO. IN ACCORDANCE WITH APPROVED PROCEDURE M-77365-5
- 3.0 HEAT THEAT PERFORMED BY PHECISION HEAT TREAT CO. TO ASME SA-453 GR. 660 CL.A IN
 ACCOMPANCE WITH ACCORDING PROCEDURE HT 77365-5 2/18/77
 HEAT TREAT SUMMARY SOLUTION AT 1650°F, HOLD FOR 2 HOURS MIN /AOIL QUENCH/ AGE AT
 13250F, HOLD FOR 16 HOURS MIN AIR.





JENKINTOWN. PENNA 18048

CERTWICATE OF CONFORMANCE

THE HAUCOCK & WILCOX COMPANY HOWER GENERATION GROUP P.O. BOX 1260 LYNCHBURG, VIRGINIA 24505

PAGE 2 OF 2

CONTRACT #620-0017

DWG . #1390060 PLY . 5 LAG . NO. 00870 CROM HOLD DOWN BOLT SHOP ORDER #650660 04 OTY 220

THE SANT RECEDIT CORES PROPERTY 031405LE CO#3

but to Calteracategos 2/22/78.

ITEM PI

QUANTITY

PRODUCT NUMBER OR DESCRIPTION

LABORATORY CONTROL NUM

(CONTINUED FROM PAGE 1)

LIQUID PENLIRANT INSPECTION: OF CROM BOLTS PERFORMED BY SPS CO. TO ASME SUB. ART. MB2500 AND APPROVED PROCEDURE PT69805 7/30/75 REV.A 4/4/77. 100% TESTED AND ACCEPTED.

LEVEL. III

- CITAMING PERFORMED BY SPS OD TO APPROVED PROCEDURE C-77365-1 3/21/77 REV.B 7/15/77.
- MECHANICAL TEST RESULTS: (SEE ATTACHMENTS.)

ATTACHMENT 5 4 26



PAGE _8_ OF.

Their Or Chebre A Popul

2/22/78

SED STEEL CO . JENKINTOWN, PENNA 18048 CERTIFICATE OF CONFORMANCE THE DADCOCK & WILCUX COMPANY POWER GENERATION GROUP P.O. BOX 1200 PAGE 1 OF 2 LYHCHBURG, VINSINIA 24505 CONTRACT # 620-0017

LASCEATORY CONTEOL MAN PRODUCT NUMBER OF DESCRIPTION PERMANO 178 M LAB. NO. 00865 DWG . #170379C REV . 1 HOLD DOWN WASHER 220 SI OP ORDER NO. 650662-01

THE FINISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE HOTES CONTAINED IN THE BLUEPRINT, PURCHASE GROER CHANGE #2, 08-1087000001 REV. 04 9/76, 19-1212 REV. 01 1-74, 10-1093 REV. 02 3-74, 48-1596 REV. 01 9-76, 24-1001318 REV. 00 12-76

RAW MATERIAL, SPEC. ASME SA-540 GR.B23 CL.1. PURCHASED FROM: REPUBLIC MEAT NO. 806074U SPS STEEL DATE: GC 483 R CHEMISTRY: MILL REPORT ATTACHED 1.0 1.1 ULTRASONIC INSPECTION: PERFORMED BY SPS CO. TO ASME SUB ART MB2000 AND APPROVED PROCEDURE UT-60010 9/4/75 REV.C 3/24/77. 100% OF BARS TESTED AND ACCEPTED.

TOTAL PORT NOT HAVE BEEN STREET

031405LE CO#3

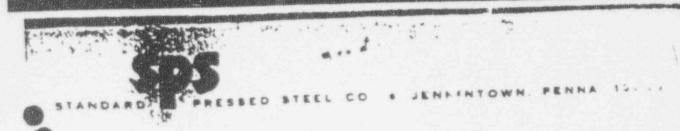
- PENFORMED BY SPS CO. IN ACCORDANCE NI APPROVED PROCEDURE MANUFACTURING PENFORMED BY NONE .
- HEAT TREAT : PERFORMED BY SPS CO. TO SA-540 GR. B23 CL. 1, IN ACCORDANCE WITH APPHOVED PROCEDUPE HT-77365-6 2/18/77, REV. A 9/16/77. HEAT TREAT SUMMARY: HARDEN 5.0 #1550°F/2 HRS OIL QUENCH, TEMPER 1000°F / 2 HRS. AIR COOL.
- LIQUID PENETRANT INSPECTION: OF WASHERS PERFORMED BY SPS CO. TO ASME ART NB-2000 PARA, NE 2546 AND APPROVED PROCEDURE PT-69805 7/30/75 REV.A 4/4/77. ALL WASHERS TESTED AND ACCEPTED. CTIVE TESTING INSPECTOR

(CONTINUED ON PAGE ?) ATTACHMENT -Z 6 9/26

PAGE . 12 . OF ..

MARABER WATER ALE LANGER

B11=8688 P866868 87684 40



CERTIFICATE OF COMPOR MANCE

and he films is fall done from bearn assisted in an understand an inter-grant film approximate for a management from the film of the parts of parts fall in the company films of the contract of the second form of

THE HABOOCK & WILCOX COMPANY POWER GENERATION GROUP P.O. UOX 1260 LYNCHBURG, VIRGINIA 24505

PAGE 2 OF 2

MG. #170379C TEV. 1 HOLD DOWN WASHER LAB. # 20865 TOTAL OF ORDER #650662-01 ITEM# 1 OTY 220

CONTRACT # 620-0017

1 7'E AL

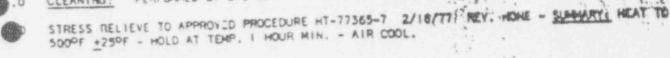
PITTHAUG

PRODUCT NUMBER OR DESCRIPTION

LABORATORY CONTROL 1 3

(CONTINUED FROM PAGE 1)

CLEANING: PERFORMED BY SPS CO. TO APPROVED PROCEDURE C-77365-1 3/21/77 REV. 8 7/13/7



HEAT TREAT LOT #1 7.0

MLCHANICAL TEST RESULTS: 5.0

8.1 5.2	HARDNESS: DHN 352-362 CHARPY V IMPACT #+400F:	FT/B	MILLS	1
		45 43 43 50 46 50	28 34 32 33 32	40 50 50 40 40

165,700 PSI 166,400 5.3 TENSILE 152,700 PS1 153,500 YIELD: 17.7 \$ 16.7 ELONG: 58.7 \$ 57.0 RED. OF AREA:

ATTACHMENT - 2 7 of 26



PAGE . L3 OF .

BUSERVICE COMPANY

S. Dasgupte, Quality Assurance	BWN5-205538-5 (10/89)
E. Wilder, Technical Support, NPC E. Wilden	Customer or File EW/90-002
Subs	Date
IWA-7200 Review for CRDM Holddown Bolts	February 6, 1990

Reference: B&W Contract No. 788-7089070 & Customer's P.O. #5008923 D90

The customer's purchase order specifies that the supplier shall provide certification that the product (CRDM Hold Down Bolt Assembly, B&W P/N 1006110-005) supplied for this purchase order muets the requirements of the 1968 Edition, Summer 1970 Addenda of Section III of the ASME Boiler and Pressure Vessel Code for Class I Components.

The parts being furnished were manufactured to the ASME Boiler and Pressure Vessel Code, 1974 Edition with no addenda, Section III, Class 1, Nuclear Power Plant Components.

In review of the requirements for bolting in accordance with the ASME Boiler and Vessel Code 1968, Summer 1970 Addends and the 1974, No Addends of Sections 11 and III. Class 1. Nuclear Power Plant Components, it has been determined that the bolts are equivalent in physicals, chemicals and testing and are acceptable for the intended application.

Steph 7/162 2/7/90 Engineering concurrence

EW/515

cc: H. B. Prasse

R. R. Tein R. C. Pillow

S. Fyfitch

ATTACHMENT-Z 8 0/ 26

PAGE 15 OF _

24

BW Nuclear Service Company Engineering & Plant Service Division

CERTIFICATE OF CONFORMANCE

DESCRIPTION DESCR
DESCRIPTION RDM Hold Down Bolt Assy. Onsisting of: ts - HTS 20233-2 (126 ea) HTS 20233-3 (116 ea)
oneseting of: ts - HTS 20233-2 (126 ea) HTS 20233-3 (116 ea)
oneseting of: ts - HTS 20233-2 (126 ea) HTS 20233-3 (116 ea)
one:sting of: ts - HTS 20233-2 (126 ea) HTS 20233-3 (116 ea)
HT# 20233-3 (116 ea)
-8 - HTM 8060748 (C4C ##)
ith B&W QA Program
BILL OF BASE HE No. Only.
ARE FURNISHED IN ACCORDANCE ND PURCHASE ORDER REQUIRE- ND FUNCTION WITH THOSE BELOW.
reviewed by EPS QR and four reance to referenced eleased to ship in a QR HOLD
11cms: N/A
110ws: N/A

KTTACHMENT-Z

PUS-21071-7 (4-75) Manager, MPCD Purchasing Mucloar Power temperation Division P. U. 201 1260 Lynchburg, Virginia 24505 SUPPLIES CENTIFICATE OF COMPONICE STANDARD PRESSED STEEL CO. P.O. Mo. (a): 031405LE NAW Contract No. (a): 620-0018 C.O. Mo.(a): BOY Hark Mo. (8): NONE 11 mm No. (n): 2 08-1067000001 REV.04 9/76 i.H. i) Specification Humber(s): Equipment Description: CONTROL ROD DRIVE MECHANISM HOLD DOWN BOLT ASSEMBLIES tereprisons (List of Sew Approved CVAR Mumbers): NONE 10. 11. of equipment identified berein meets the requirements of the above listed ! " stion(s) and purchase order. Any exceptions to the Specifications or urder requirements of this Contract known to the undersigned are listed and have been reported to and approved in writing by The Babcock & William Documentation is available at the Manufacturer's plant, and documentation, ited by the Baw MPGD QA Data Sheets or Quality Requirements Matrices, I.u. . . mblod and is bring or has been transmitted to B&W-NPCD. . . undersigned is the Quality Assurance/Control Manager of THE MIT PRESSED STEEL CO. (Mame of Supplier Authorized Signature Manage Break Tille

instructions for completion of this form are delineated on the reverse side.

ATTACHMENT - 2

PAGE ___ OF ___

PAGE 2 OF __

N. PENNA 19046 O JEMEINTO PRESSED STEEL, CO THAM SURMOUND TO STANFOT THE DAHCOCK & WILCOX COMPANY FOWEH GENERATION GROUP P.O. BOX 1260 PAGE 1 OF 2 LYNCHEURG, VIRGINIA 24505 CONTRACT #62 -- 0018 TINE HOLD DEED SOCIETY BALL OF CHIEFE A INCH 2/23/78 031405LE 00.83 LABORATORY CONTROL NUMBER PRODUCT NUMBER OR DESCRIPTION QUARTIT 19章 66 00303 LAB. NO. DWG . \$1390060 REV . 5 CROM HOLD DOWN BOLT 78 SHOP ORDER #650660- 05 THE FIRISHED PRODUCT WAS MANUFACTURED, TESTED, AND ACCEPTED TO: THE APPLICABLE HOTES CONTAINED IN THE BLUEPRINT, PURCHASE ORDER CHANGE \$2, 08-1087000001, REV. 04 . 8/76, 09-1212 REV. 01 1-74, 10-1095 REV. 02 3-74, 48-1396 REV. 01 9-76, 26-10012:2 REV. 00 12-76; CODE SEC. 111 1974 EDITION, NO ADDENDA, INCLUDING THE FOLLOWING: RAW MATERIAL: SPEC., ASME SA-453 GR. 660 CL.A. PURCHASED FROM:

HEAT NO. 2023-3 SPS STEEL DATE: AM 143 Y CHEMISTRY: MILL REPORT ATTACHED.

LIQUID PENETRANT INSPECTION: PERFORMED BY SPS CO. TO ASME SUB. ART. MB2580,

AND APPROVED PROCEDURE PT69805 7/30/75 REV.A 4/4/77. 100% OF BARS TESTED 1 IVE TESTING INSPECTOR AND ACCEPTED TRASONIC INSPECTION: PERFORMED BY SPS CO. TO ASHE ART. NB-2000 AND APPROVED CCEDURE UT-60010 9/4/75 REV.C 3/24/77. 100% OF BARS TESTED AND ACCEPTED. michael HON-DESTRUCTIVE TEST MAN - ACTURING: PERFORMED BY SPS CO. IN ACCORDANCE WITH APPROVED PROCEDURE M-77365-5 HEAT TREAT : PERFORMED BY PRECISION HEAT TREAT CO. TO ASHE SA-453 OR. 660 CL./ IN 17365-5 2/18/77 3.0 ACCORDANCE WITH APPROVED PROCEDURE HT HEAT TREAT SUMMARY: SOLUTION AT 16500F, HOLD FOR 2 HOURS MIN - 70TL QUENCH, AC A 13250F, HOLD FOR 16 HOURS MIN - AIR. PAGE 3 OF _ UNTIMED ON PAGE 21 ---------Proposite my 12 and 19 ar ar . . . ATTACHMENT- 2 _ OF_ PAGE ___

STANDARDI PRESSED STEEL CO	M.W.O.T.M. N. BL C	PENNA 18046
	CERTIFICATE OF COM	SHAME
	The contention between its depreciation in their to twen found to seen the approximation experimentalist que-discrimina decome is pain or the description.	ples production was the sequence, the spin amount on the respond count deleted on the interestical in the The spin
	in exception particle 2 seas in go distributors	
7		
THE HAUCOCK & WILCOX COMPANY		
PROWER GENERAT, DR GROOT		
LANCHARINE A THE THIE STATE THE	PAGE 2 OF 2	
LYNCHOURG, YTHOTATA		
00683	CONTRACT \$620-0018	
S. #1390061 REV. 5 LAB. NO. 00883	TOTIS TO RECORD COMME COMME	Seek & Consultation
OM HOLD DOWN FIOTE 2100 ONSTERNA STATE	031405LE CO. #3 .	2/23/78
	The second secon	LABORATORY CONTROL NO
PRODUCT N	CHAPTE OF DESCRIPTION	SACTOR CONTRACTOR AND ADDRESS OF THE PROPERTY OF THE PERSON NAMED IN COLUMN 2
NBZ 580 AND APPROVED PROCEDURE PT 59805	D. C. STRUCTIVE TESTING	LEVEL TIT
.0 LIQUID PENETRANT INSPECTION: OF CROM INSESSION AND APPROVED PROCEDURE PT59805 ACCEPTED. O CLEANING: PERFORMED BY SPS CO. TO A	NON-DESTRUCTIVE TESTING	LEVEL TIT
NB2580 AND APPROVED TO ACCEPTED.	NON-DESTRUCTIVE TESTING	LEVEL TIT

ATTACHMENT-Z

	AND DESCRIPTION OF THE PARTY OF		BARRION SUPPLIES	
	ED STEEL CO	. JENKINTOWN	PENNA 18048	2
STANDAND MES PALES				. 7
		CERTIFICATE OF CO	NEGRMANCE	
			SQP back distributions of bottom con-	
		Pio servourosi consensad in distri consensacion van co- tresin listano in teresin tino applicazioni reagantivate agoni rilizzazione fazzacione e paro el filte disecuripate	gen, for day contravel, was unaded one gas, four appears one on fine cultures	
		to constrainties.		
	4000			
	CANY			
THE DARLOCK & WILCOX COM	- Alla I			
P.O. BOX 1260		A		
LYNCHIBURG, VIRIGINIA 2450	35	PAGE 1 OF 2		
				. 1
Name .				- 1
		CONTRACT #628-0018	C. J J.	1
		CONTRACTOR COMPANIES	112 "X > 2/2 V/78	
		031403LE 00.#3 %: 3	MANUAL SECTION OF THE PROPERTY	
		AND OF BEECH STON	LABORATORY CONTROL N	994 my
QUANTIY	THE REAL PROPERTY AND PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF	ABER OR DESCRIPTION	00473	
39	SHOP ORDER #6	CROM HOLD DOWN BOLT	LAB. NO.	
AND ACCEPTED.	EDJRE PT69805 7/:	NON-OF STRUCTIVE TEST	ING INSPECTOR	
PROCEDURE UT-600	TION: PERFORMED B	3/24/77. 100% OF BA	RS TESTED AND ACCEPTE	5.
		NON-DESTRUCTIVE TEST	May Maregion	
2.3 MANUFACTURING: PERFO				5-3
O HEAT TREAT : PERFORME			ARR OD SECTION	
ACCORDANCE WITH APPRO	SOLUTION AT 16500	7 TREAT CO. TO A ME S/ /7365-5 2/18/7 DE FOR 2 HOURS M	A-453 GR. 660 CL. A IN	
	SOLUTION AT 16500		IN - FOIL QUENCY ADD	AT
MEAT TREAT SUMMARY:	SOLUTION AT 16500	FOR 2 HOURS M	PAGE 7 -	AT
ACCORDANCE WITH APPRO	SOLUTION AT 16500	FOR 2 HOURS M	IN - FOIL QUENCY ADD	AT
HEAT TREAT SUMMARY:	SOLUTION AT 16500	FOR 2 HOURS M	PAGE 7-	OF
ACCORDANCE WITH APPROACH THEAT TREAT SUMMARY: 13250F, HOLD FOR 16 1	SOLUTION AT 16500 HOURS MIN - AIR.	FOR 2 HOURS M	PAGE 7 -	OF
MEAT TREAT SUMMARY:	SOLUTION AT 16500 HOURS MIN - AIR.	FOR 2 HOURS M	PAGE 7 -	OF

PRESSED STEEL CO . JENKINTO" V. PENNA 19046

CESTIFICATE OF CONFOS MANCE

THE BAUCOCK & WILCOX COMPANY POWER GENERATION GROUP P.O. DOX 1260 LYNCHOURG, YIRGINIA 24505

DWG. #139006U REV. 5 LAB. NO. 00873 CROM HOLD DOWN BOLT SHOP ORDER#650660-17EM #2 OTY 39

PAGE 2 OF 2

CONTRACT #620-0018

CITCHE FRANCISCO COMMON PROPERTY 031405LE CO.#3

2/23/78

I FE An

QUANTITY

PRODUCT NUMBER OR DESCRIPTION

LABORATORY CONTEQU NUMBER

(CONTINUED FROM PAGE 1)

LIQUID PENETRANT INSPECTION: OF CROM BOLTS PERFORMED BY SPS CO. TO ASME SUB. ART. NB2580 AND APPROVED PROCEDURE PT69805 7/30/75 REV. A 4/4/77 .. 1005 TESTED AND

ACCEPTED.

CLEANING: PERFORMED BY SPS CO. TO APPROVED PROCEDURE C-77365-1 3/21/77 REV. B 7/13/77

MECHANICAL TEST RESULTS: (SEE ATTACHMENTS.)

ATTACHMENT -2

PAGE E OF -

					Description of the second		PRINCIPLE AND INTERPRETATION AND MARKET
4	400				With the second	MNA. 180	46 /
BTA	HOARD PRE	BEED STEEL	CO. 8	76 600 540 2	About the same of		
					6 20		
				COM THROCA	AR DE COMBLOS W	ARCE	
ESIA.			Por soon breath for	princi spourone by GML Spol asset to execut the supplies	Hilingson kind ferras kapiteri ka sinjahkungukiteraparan dar dan dan singatiparkan buat car	surprises, technicies are surprises, technicies are sortic sets as the subject	× 7.2
			n= 10000	describes.	N. T.		
*	F BABCOCK & WILCOX	PERMIT					
PO	WER GENERATION GROU	P					
P.	O. BOX 1260		P	AGE 1 OF 2			
LY	NOHBURG, VIRGINIA 2	# 20 J			Ĭ		
	Lac.		mw1	PACT 8 min	And The		
				4945.1	Budget a	IN MINERAL MERIL	and comments of the same of
				HAUSLE CO.	出版的是	E/25/78 ··	25. 50
			-	F 70	nen combination (All y Million con all Martin Res 2008)	24 4 6 46	on vitable
1	TIRMAUQ	PRODU	CTHUMBERO	e perceiption	THE PARTY OF	BEATRET COS	
-	CARDONNESS PROPERTY CARDONNESS PROPERTY CONTRACTOR AND ADDRESS OF THE PARTY OF THE		nev 1 11311	O FORMAL MARSH	1876	AR MO DE	28.5
	39_	DWG . #1703790	DER NO.550	662-01	1 14		in the
COMPANY AND A	AINED IN THE BLUEPH 212 MEY.OI 1-74, CODE SEC. III 197	INT, PURCHASE OR	THE CHANGE	1396 REV.01	Burnet Bill It is well as		
NOVE D	AINED IN THE BLUEPH 212 MEY.OI 1-74, COOK SEC. III 187	INT, PURCHASE OR 10-1095 REV.02 4 EDITION, NO AD	DER CHANGE 3-74, 48- DENDA, INC	1396 FEY.01	9-76; 24 POLLOWING:	-10013\8 PE	v.00 12-7
NOVE D	AINED IN THE BLIEPH 212 REV.OI 1-74, CODE SEC. III 187 HAW MATERIAL, SPEC. HEAT NO. 3060748	INT, PURCHASE OR 10-1095 REV.02 4 EDITION, NO AD 5 ASME SA-540 SPS STEEL DATE:	3-74, 48- DENDA, INC GR.B23 CL. GC 483 R	1396 REV.01	9-76; 26 POLLOWING: SED FROM: RI TRY: MILL RI COMP SUB ART	EPUBLIC EPORT ATTAC	EV.00 12-7
P-II	AINED IN THE BLIEPH 212 REV.OI 1-74, CODE SEC. III 187 HAW MATERIAL, SPEC. HEAT NO. 3060748	ASME SA-540 SPS STEEL DATE: NSPECTION: PERFO	GR. B23 CL. GC 483 R DRMED BY SF	I PURCHA CHEMIS S CO. TO A S REV.C 3/	9-76; 26 POLLOWING: SED FROM: RI TRY: MILL RI COMP SUB ART	EPUBLIC EPORT ATTAC	EV.00 12-7
P-II	AINED IN THE BLIEPH 212 REV. 01 1-74, CODE SEC. 111 187 HAN MATERIAL, SPEC. HEAT NO. JOGOTAU 1.1 ULTRASONIC II AND APPROVED AND ACCEPTED	ASME SA-540 SPS STEEL DATE: NSPECTION: PERFO	GR. B23 CL. GC 483 R DRMED BY SE DIO 9/4/7!	1. PURCHA CHEMIS S CO. TO A S REV.C 3/	POLLOWING: SED FROM: RITRY: MILL RISME SUB ART 24/77. 100%	EPUBLIC EPORT ATTAC NB2000 OF BARS TE	EV.00 12-7
10 - 11 - 12 - 12 - 12 - 12 - 12 - 12 -	HAN MATERIAL, SPECHEAT NO. JOSOTAU I.I ULTRASONIC II AND APPROVED MARCHACTURING: N-77365-6 1/3/78	PEHFORMED BY SPS	GR.B23 CL. GC 483 R DRMED BY SE DIO 9/4/7! 127 LOCATE NOR-DESTRU	DING THE	POLLOWING: SED FROM: RITRY: MILL RISME SUB ART 24/77. 100%	EPUBLIC EPORT ATTAC NB2000 OF BARS TE	EV.00 12-7
1-4- 3-2 3-2 3-3 3-3	HAN MATERIAL, SPECHEAT NO. JOSOTAU I.I ULTRASONIC II AND APPROVED MARCHACTURING: M-77365-6 1/3/78 HEAT TREAT: PERF APPROVED PROCEDUR 615500F/2 HRS 011	PEHFORMED BY SPS REV. NOVE. TORMED BY SPS REW. NOVE.	GR. B23 CL. GC 483 R DRMED BY SE DIO 9/4/7! CO. IN AC TO SA-540 (18/77, REV 1000°F / 2	DING THE CHAIS CONTRACT OF THE CORDANCE WILL	POLLOWING: SED FROM: RITRY: MILL RISME SUB ART 24/77. 100% TH APPROVED TH APPROVED ITH APPROVED THE TREE COOL.	EPUBLIC EPORT ATTAC NB2000 OF BARS TE	WED STED
3.0	HAN MATERIAL, SPECHEAT NO. 0006 SEC. 111 187 HAN MATERIAL, SPECHEAT NO. 0060748 1.1 ULTRASONIC III AND APPROVED AND ACCEPTED MARCH ACTURING M-77365-6 1/3/78 HEAT TREAT: PERF APPROVED PROCEDUR 615509F/2 HRS 011 PARA NO 2546 AND PARA NO 2546 AND	PEHFORMED BY SPS REV. MOVE. TORMED BY SPS REV. MOVE. TORMED BY SPS REW. MOVE.	GR. B23 CL. GC 483 R DRMED BY SP 010 9/4/7! 77 ACLS NOR-DESTRU CO. IN AC 18/77, REV 1000°F / 3	CORDANCE WILL GR. B23 CI A 9/16/77 HRS. AIR	POLLOWING: SED FROM: RITRY: MILL RISME SUB ART 24/77. 1005 MO CASPECTO TH APPROVED .1, IN ACCO. MEAT TREE COOL. SPS CO. TO 15 REV.A 4/1	EPUBLIC EPORT ATTAC NBZOOO OF BARS TE 27 R PROCEDURE OROANCE WITH AT SUMMARY: ASME ART NB	HARDEN
19-11 13-16 0 . 3	HAN MATERIAL, SPECHEAT NO. JOSOTAU I.I ULTRASONIC II AND APPROVED MARCHACTURING: N-77365-6 1/3/78 HEAT TREAT: PERF APPROVED PROCEDUR 615500F/2 HRS DIII	PENFORMED BY SPS REV. NOVE. PENFORMED BY SPS REV. NOVE. PORMED BY SPS REV. NOVE.	GR. B23 CL. GR. B23 CL. GC 483 R DRMED BY SH DIO 9/4/7! NOR-DESTRU CO. IN AC TO SA-540 18/77. REV 1000°F / 3 WASHERS PER SURF PS-69:	CORDANCE WILLIAMS AIR OR BEST CO. TO A CORDANCE WILLIAMS AIR OR BEST CO. A ST.	POLLOWING: SED FROM: RITRY: MILL RISME SUB ART 24/77. 100% THE APPROVED THE APPROVE	EPUBLIC EPORT ATTAC NBZOOO OF BARS TE 27 R PROCEDURE OROANCE WITH AT SUMMARY ASME ART NB	HARDEN
3.0	HAN MATERIAL, SPECHEAT NO. 0006 SEC. 111 187 HAN MATERIAL, SPECHEAT NO. 0060748 1.1 ULTRASONIC III AND APPROVED AND ACCEPTED MARCH ACTURING M-77365-6 1/3/78 HEAT TREAT: PERF APPROVED PROCEDUR 615509F/2 HRS 011 PARA NO 2546 AND PARA NO 2546 AND	PENFORMED BY SPS REV. NOVE. PENFORMED BY SPS REV. NOVE. PORMED BY SPS REV. NOVE.	GR. B23 CL. GR. B23 CL. GC 483 R DRMED BY SH DIO 9/4/7! NOR-DESTRU CO. IN AC TO SA-540 18/77. REV 1000°F / 3 WASHERS PER SURF PS-69:	CTIVE TESTI	POLLOWING: SED FROM: RITRY: MILL RISHE SUB ART 24/77. 1005 HO CASPECTO TH APPROVED 11. IN ACCO. HEAT TREE COOL. SPS CO. TO 15 REV.A 4/1	EPUBLIC EPORT ATTAC NB2000 OF BARS TE PROCEDURE PROCEDURE AND SHE ART NB A/77. ALL WEL ZZZ	HARDEN
3.0	HAN MATERIAL, SPECHEAT NO. 3060748 ILI ULTRASONIC III AND APPROVED AND ACCEPTED MARCHAST TREAT: PERF APPROVED PROCEDUR 615500F/2 HRS DIII LIQUID PENETHANT PARA NO 2546 AN TESTED AND ACCEP	PEHFORMED BY SPS REV. MOVE. PERFORMED BY SPS REV. MOVE. PORMED BY SPS CORMED BY SPS	GR. B23 CL. GR. B23 CL. GC 483 R DRMED BY SH DIO 9/4/7! TO SA-540 18/77, REV 1000°F / 3 NON-DESTRU	CTIVE TESTI	POLLOWING: SED FROM: RITRY: MILL RISME SUB ART 24/77. 1005 MO (ASPECTO TH APPROVED .1. IN ACCO. MEAT TREE COOL. SPS CO. TO S REV.A 4/1	EPUBLIC EPORT ATTAC NB2000 OF BARS TE PROCEDURE PROCEDURE AND SHE ART NB A/77. ALL WEL ZZZ	HARDEN

STANDARD PRESSED BYEFE CO & JENKINTOWN PENNA 18046 3

CERTIFICATE OF CONFORMANCE

The resolution of developed by their sports legacy but forces destroic or propagation is in 2 and the conpage of facilities to sport this appropriately representation the time destroice one facilities are properly represented to the destroice of the contract of the co

THE THOCOCK A WILCON COMPANY HOWER SEMERATION SHOUP P.O. MOX 1260 LYX HOURS, VIRSINIA 24505

PAGE 2 OF 2

100 OF OFFICER #C10662-01 11EM# 2 01Y 57 0314051E 00.#3

OS1405LE CO./3 2/23/76

THE QUANTITY PRODUCT NUMBER OF DESCRIPTION LABORATORY CONTROL NUMBER

(CONTINUE), FROM PAGE 10

CLLA HILL PLUEDICALE BY SPS CO. TO APPHOVED PROCEDURE C-77365-1 3/21/77 REV. 8 7/13/77

THE AS HELIEVE TO AFPROVED PROCEDURE HT-77365-7 2/18/77 REV. NONE - SUMMARY: HEAT TO

oran total til #1

Sunday A. Tr. S. St. S. S.

. \$	THE STATE OF	1MF KCT 444 271		F7/#	MILIS	
				15	28	40
				4.5	2.	50
				4.5	34	50 -
				5.0	32	40
				46	3.5	4.3
				5.5	34	. 40
	Mark.	10	€,400	165,750 0	or 1	
	9.14.1			152.75 F		

100,400 115,700 PC

PAGE _- J_ OF __

ATTACHMENT - 2

with A Vigation

BUSERVICE COMPANY

3

To	Dasgupte, Quality Assurance	@WWS-205538-5 (10/89)
(12) ·····	. Wilder, Technical Support, NPC E. Wilden	Customer or File EW/90-00?
200		Date February 6, 1990
. 11	HA-7200 Review for CRDM Holddown Bolts	February 5, 1990

Reference: B&W Contract No. 788-7089070 & Customer's P.O. #5008923 D90

The customer's purchase order specifies that the supplier shall provide certification that the product (CRDM Hold Down Bolt Assembly, B&W P/N 1006110-005) supplied for this purchase order meets the requirements of the 1968 Edition. Summer 1970 Addenda of Section III of the ASME Boiler and Pressure Yessel Code for Class 1 Components.

The parts being furnished were manufactured to the ASME Boiler and Pressure Vessel Code, 1974 Edition with no addenda, Section III, Class I, Nuclear Power Plant Components.

In review of the requirements for bolting in accordance with the ASME Boiler and Vessel Code 1968, Summer 1970 Addenda and the 1974, No Addenda of Sections II and III. Class 1, Nuclear Power Plant Components, it has been determined that the bolts are equivalent in physicals, chemicals and testing and are acceptable for the intended application.

Steph Mill 47/40 Engineering Concurrence

EW/512

cc: H. B. Presse

R. R. Klein

R. C. Pillow

S. Fyfitch

ATT ACHMENT -Z

PAGE __ OF __

BABCOCK & WILCOX NUCLEAR POWER DIVISION CERTIFICATE OF CONFORMANCE NUCLEAR PARTS

CUSTOMER/PLANT SITE: Toledo Edison Co.

UCLEAR	R PARTS TEC	HNICAL DOC	UMENT(S): 2	21-1101010-03	23_1172097-00
&W COP	NTRACT NO.:	783-7039	010	DA DATA PACKAGE NO.:	1.004
&W OR	DER NO.:	065158		B&W C.O. NO.(S):	1-004
77	CUSTOMER	98k P.O.	B&W/SUPPLIER, CUSTOMER P/N	/ DESCRI	IPTION
				Flange Rings, S/N's	28, 29, 30, 36
The	above item:	s are provi	ded in accordance	ance with B&W QA Progr	ram 56-1151178-07
		A APRIL C.	151 05	Authorization No. N-16	650 expires Jan. Zl.
ASME	III Class	I - ASME C	ertificate of	Authorization No. N-16	650 expires Jan. 21.
ASME	III Class	I - ASME C	ertificate of	Authorization No. N-16	650 expires Jan. 21.
ASME	III Class	I - ASME Co	ertificate of	Authorization No. N-16	650 expires Jan. 21.
			MIST FAD DE	DUER DIVISION HEREBY	CERTIFIES THAT THE
THE BA	ABCOCK & WI LISTED ABO	LCOX COMPA DVE ARE FUR AND PURCHA	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REQUI SE ORIGINALLY	OWER DIVISION, HEREBY ORDANCE WITH THE APPLI IREMENTS AND ARE INTER SUPPLIED, UNLESS OTHE	CERTIFIES THAT THE CABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW.
THE BA	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTION	LCOX COMPA DVE ARE FUR AND PURCHA ON WITH THO	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REQUI SE ORIGINALLY	OWER DIVISION, HEREBY DRDANCE WITH THE APPLI IREMENTS AND ARE INTER SUPPLIED, UNLESS OTHE	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW.
THE BA	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTION eferenced (LCOX COMPA DYE ARE FUR AND PURCHA ON WITH THO	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REQUI SE ORIGINALLY kage has been	DWER DIVISION, HEREBY DRDANCE WITH THE APPLI IREMENTS AND ARE INTER SUPPLIED, UNLESS OTHE reviewed by NPD QA ar	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW. and found acceptable.
THE BA ITEMS SPECIA FIT, A The m excepa	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTIO eferenced Of t as noted ment being	LCOX COMPA DVE ARE FUR AND PURCHA ON WITH THO DA Data Pac below. No released t	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REOU! SE ORIGINALLY kage has been inconformance to ship in a O	OWER DIVISION, HEREBY ORDANCE WITH THE APPLI IREMENTS AND ARE INTER SUPPLIED, UNLESS OTHE reviewed by NPD QA ar to referenced requirer A HOLD status by the I	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW. and found acceptable.
THE BA ITEMS SPECIA FIT, A The m excepa	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTIO eferenced Of t as noted ment being	LCOX COMPA DVE ARE FUR AND PURCHA ON WITH THO DA Data Pac below. No released t	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REOU! SE ORIGINALLY kage has been inconformance to ship in a O	OWER DIVISION, HEREBY ORDANCE WITH THE APPLI IREMENTS AND ARE INTER SUPPLIED, UNLESS OTHE reviewed by NPD QA are to referenced required A HOLD status by the I	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW. and found acceptable.
THE BA	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTION eferenced (t as noted ment being	LCOX COMPA DYE ARE FUR AND PURCHA ON WITH THO DA Data Pac below. No released t	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REQUI SE ORIGINALLY kage has been inconformance to ship in a Or	DWER DIVISION, HEREBY DRDANCE WITH THE APPLIFICATION OF THE SUPPLIED, UNLESS OTHE reviewed by NPD QA are to referenced required A HOLD status by the MARKET N/A	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW. and found acceptable, ments may result in NPD QA Department.
THE BA	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTION eferenced (t as noted ment being	LCOX COMPA DYE ARE FUR AND PURCHA ON WITH THO DA Data Pac below. No released t	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REQUI SE ORIGINALLY kage has been inconformance to ship in a Or	DWER DIVISION, HEREBY DRDANCE WITH THE APPLIFICATION OF THE SUPPLIED, UNLESS OTHE reviewed by NPD QA are to referenced required A HOLD status by the MARKET N/A	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW. and found acceptable.
THE BA ITEMS SPECIAL FIT, A The mexcep equipal Nonco	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTION eferenced (t as noted ment being	LCOX COMPA DYE ARE FUR AND PURCHA ON WITH THO DA Data Pac below. No released t	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REQUI SE ORIGINALLY kage has been noconformance to ship in a Di rements:	OWER DIVISION, HEREBY DROANCE WITH THE APPLIFICATION OF THE SUPPLIED, UNLESS OTHE reviewed by NPD QA are to referenced requires A HOLD status by the MAA	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW. and found acceptable, ments may result in NPD QA Department.
THE BA ITEMS SPECIAL FIT, A The m excep equip Monco	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTION eferenced (t as noted ment being	LCOX COMPA DVE ARE FUR AND PURCHA ON WITH THO DA Data Pac below. No released t s) to requi	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REOU! SE ORIGINALLY kage has been inconformance to ship in a O	OWER DIVISION, HEREBY DROANCE WITH THE APPLIFICATION OF THE SUPPLIED, UNLESS OTHE reviewed by NPD QA are to referenced requires A HOLD status by the MAA	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW. and found acceptable, ments may result in NPD QA Department.
THE BA ITEMS SPECIAL FIT, A The m excep equip Monco	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTIO eferenced Of t as noted ment being nformance(LCOX COMPA DVE ARE FUR AND PURCHA ON WITH THO DA Data Pac below. No released t s) to requi	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REOU! SE ORIGINALLY kage has been inconformance to ship in a O	OWER DIVISION, HEREBY DROANCE WITH THE APPLIFICATION OF THE SUPPLIED, UNLESS OTHE reviewed by NPD QA are to referenced requires A HOLD status by the MAA	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW. and found acceptable, ments may result in NPD QA Department.
THE BA ITEMS SPECIAL FIT, A The re excep equipa Nonco	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTION eferenced (t as noted ment being nformance()	LCOX COMPA DYE ARE FUR AND PURCHA ON WITH THO DA Data Pac below. No released t s) to requi	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REOU! SE ORIGINALLY kage has been inconformance to ship in a O	OWER DIVISION, HEREBY DROANCE WITH THE APPLIFICATION OF THE SUPPLIED, UNLESS OTHE reviewed by NPD QA are to referenced requires A HOLD status by the MAA	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM, ERWISE NOTED BELOW. and found acceptable, ments may result in NPD QA Department.
The BI ITEMS SPECII FIT, I The m except equipm Nonco	ABCOCK & WI LISTED ABO FICATIONS, AND FUNCTIO eferenced Of t as noted ment being nformance(LCOX COMPA DYE ARE FUR AND PURCHA ON WITH THO DA Data Pac below. No released t s) to requi	NY, NUCLEAR PO NISHED IN ACCO SE ORDER REOU! SE ORIGINALLY kage has been inconformance to ship in a O	OWER DIVISION, HEREBY DROANCE WITH THE APPLIFICATION OF THE SUPPLIED, UNLESS OTHE reviewed by NPD QA are to referenced requires A HOLD status by the MAA	CERTIFIES THAT THE ICABLE CODES. RCHANGEABLE IN FORM. ERWISE NOTED BELOW. and found acceptable, ments may result in NPD QA Department.

SUPPLIER CERTIFICATE OF CONFORMANCE

Supplier Name & Lecation Cleveland	Special Tool Inc., Wickliffe, Ohio
BAM PO/PA NO. (8) 0651 58 VC	CO NO. (1) 1 thru 4
B&W Contract No. (1) 788-325039	

Oty, Item No. Mart/Part No.

46 01 1006110-004 Plange Rings, MK-120 per Dwg. 1460478-2

Ht. No. 58761

The material has been ultrasonically tested, magnetic particle examined and 100% visually and dimensionally inspected in accordance with Sec. 3.0 of SP Spec. 06-1146005-01.

The parts have been identified by vibrotool with S/M's: 1 thru 18, and 20 thru 47.

QA progress in accordance with CST Inc. QA Marwal Rev. 1 dated 12-1-76 with addendas 'A' thru 'D', as audited to Best Spec. 09-1212-01, & NCA-3800

Any special extification statements required by this order may be inserted in the space off or on a separate certificate.

The items identified herein meet the requirements of the above listed procurement documents. Any exceptions to the technical or procurement requirements of this contract known to the undersigned have been reported to and approved in writing by SAM-NPGD. Documentation requirements of the BAM-NPGD technical and procurement documents have been met. including retention of auditable records at the supplier's plant and submittal of documents to SAM-NPGD for information and/or approval.

ATTACHMENT - 2

Authorized Signature of Supplier's QA/QC Manager

(2evised)

See reverse side for form completion inegractions.

PAGE 2 OF H

CLEVELAND SPECIAL TOOL INC.

Bushar/Commercial Quality Fascence...

Epocial Machine Work

1381 EAST 38894 STREET & WYCK LIFFE, OHIO 44082 PHONE: (216) 844-1838

to all the requirements of the material specifications
Customer Order
to all the requirements of the material specifications, es, and dimensional specifications on the coluding those of your latestent of the items indicated:
es, and dimensional specification of your latest ent of the items indicated:
nciuding those of your latest ent of the items indicated:
es, and dimensional specific noluding those of your latest ent of the items indicated:
es, and dimensional specific noluding those of your latest ent of the items indicated:
manufacture and a manufacture
ted, magnetic particle
onally inspected in accordance
A STREET TO SECURE A PROBLEM TO SECURE THE SECURE OF SECURE SECUR
enterent en enterent enterent enterent enterent enterent enterent enterent enterent enterent enterent enterent
tool with S/Moss 1 thru 18,
and the second s
and the same of th
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE
5 8 4 8

Babcock & Wilcox

а масфеннов сотрату

-Nuclear Power Division

To S. Desgupta, Quelity Assurance	BWNP 20553A-4 (1/8)
From E. Wilder, Technical Support, EP8	Customer EW/88-004
Subi INA-7200 Review 788-7089010	Date June 20, 1988

The customer's purchase order specifies that the supplier shall provide certification that the product (CRDM Flange Ring, B&W P/N 1006110-004) supplied for this purchase order meets the requirements of the 1968 Edition, Summer 1970 Addenda of Section III of the ASME Boiler and Pressure Vessel Code for Class A.

The parts being furnished were menufactured to the ASME Boiler and Pressure Vessel Code, 1980 Edition, Winter 1981 addenda, Section III, Class I, Nuclear Power Plant Components.

In review of the requirements for material in accordance with the ASME Boiler and Vessel Code 1968, Summer 1970 Addenda and the 1980, Winter 1981 Addenda of Sections II and III. Class 1. Nuclear Power Plant Components, it has been determined that the material is equivalent in physicals, chemicals and testing and is acceptable for the intended application.

Steph Fifth 6/20/17

EW/slt

cc: H. B. Prasse HEP R. R. Klein S. Fyfitch D. L. Booth

ATTACHMENT - 2

PAGE _____OF ____

1 OF 5"

3

BW Nuclear Service Company Engineering & Plant Service Division

CERTIFICATE OF CONFORMANCE

+ 1 - 7 * 1 1 ; 7

CUSTOMER/PLANT BITE: Toledo Edison Co.	and the same of th
CUST. C.C. NO. (8) 1	
ORIGINAL/REFERENCED BAW SPECIFICATION/DRAWING (WHEN REQUIRED):	No.
21-114488-63	MITT
BEH CONTRACT NO. : 788-7089895 OR DATA PACKAGE NO. : 23-1178125-829	
BEW ORDER NO. : 83-765184-15 BEW CO. O. NO. (8) : 16-17	eneiv
BEW ORDER NO. : 83-765184-15	
ASME III Certificate of Authorization No. N-1658 expires 1/21/92. CVAR # 87-1193682-00	mark.
CUSTOMER BAN P.O. BAN PIN DESCRIPTION	
917. ITEM NG. 11006110-004 Flange Rings, 8/N's: 79421-46, 37, 2, 24, 22, 44, 43, 27 14, 15, 50, 33, 3, 40, 48, 21, 20, 4, 11, 49	,
Rev. 81 Added 39, 88, 35 Rev. 82 Adds: 51, 53-57, 59, 68, 62, 64-69, 71, 72.	
The above items seet all of the requirements of the purchase order and are supplied in accordance with BWNS QA Propras 56-1151178-08.	
AND THE PARTY OF T	
MEREBY CERTIFIES THAT THE TIEMS TO THE WITH THE APPLICABLE CODES, SPECIFICATIONS, AND PURCHASE ORDER REQUIREMENTS AND ARE INTERCHANGEABLE IN FORM, FIT AND FUNCTION WITH THOSE ORIGINALLY SUPPLIED, UNLESS OTHERWISE NOTED BELOW.	
The referenced QR Data Package has been reviewed by EPS QR and f	ound
The referenced QA Data Package has bonconformance to referenced acceptable, except as noted below. Nonconformance to referenced	OLD
manufactured and result in equipment being	
status by the EPS QA Department.	
Nonconformance(s) to requirements: N/A	DATE OF THE PARTY.
Nonconformance(s) will be/was resolved as follows: N/A	
Shipsent was sade because: N/A	
eRev. 82 - Increases qty. from 23 to	
AR each (Total P. D. Gty.)	0
Adds S/N's: 51, 53-57, 59, 60, 62, Manager, EDB/OR Date	
64-67, /1, /6:	
ATTACHMENT-2	m _p
22 of 26 PAGE / OF	- 6
I I MULTINIA DE LA COLLEGIA DEL COLLEGIA DE LA COLLEGIA DEL COLLEGIA DE LA COLLEG	1

BUSERVICE COMPANY

1

2 085

4

To an artist of the second	S. Desgupta, Quality Assurance	gwws-205539-5 (10/8
Frum	C.A. Ouellatte, Materials Support Ca. Quellatte	Customer or File
Subi	C.A. Quallacte, Macerials Support	Date
20:01	TUA-7200 Reconciliation 788,7089,095	February 20 1990

The customer's purchase order, S 010463 D90, specifies that the supplier shall provide certification that the product (Flange for CRDM connection to reactor vessel nozzle flange, B&W P/N 1006110-006) supplied meets the requirements of the ASME Boiler and Pressure Vessel Code for Class I, Nuclear Power Plant Components, Section III, 1968 edition through Summer 1970 addends.

The parts were manufactured to the ASME Boiler and Pressure Vessel Code. Section III. 1974 edition with no addenda.

It has been determined through a review of the ASME Boiler and Pressure Codes for Class I. Nuclear Power Plant Components. Sections II and III. 1968 edition through Summer 1970 addends and 1974 edition with no addends. that the plates are equivalent in chemicals, physicals, and testing, and are acceptable for the intended application.

Technical Concurrence

CC: RR Klein HB Prasse KS Price CA Ouellette E Wilder

ATTACHMENT- 2 23 of 26

PAGE 2 OF_

. . / 1 7 7 1 6 3

BW Nuclear Service Company Engineering & Plant Service Division

CERTIFICATE OF COMFORMANCE Nuclear Parts Center

CUSTOMER/PLANT SITE:IOLAND_	Edison Co.		
CUSTOMER ORDER NO. : 5 010463	090 CU	ST. C.O. NO. (5) 1
ORIGINAL/REFERENCED BAN SPECIF			
NUCLEAR PARTS TECHNICAL DOCUME			
BEN CONTRACT NO. 1 _ZBB-7089095	ge pat	A PACKAGE NO.	23-1178125-00
BEW ORDER NO. 1 83-765184-13	BAW C	D. D. NO. (S):	14
ASME III Certificate of Author	ization No.	N-1650 expin	es 1/21/92.
CUSTOMER BAW P.O.	BAM P/N	DE	SCRIPTION
	06110-004	Flange Ring 79421-46. 27.	
The above supplied items compl purchase order.			
The above items are supplied in 56-1151178-08.	A STATE OF THE PARTY OF THE PAR	THE PARTY OF THE P	AND PARTY AND PROPERTY AND ADDRESS OF A PARTY
THE BAN NUCLEAR SERVICE COMPA HEREBY CERTIFIES THAT THE ITEM WITH THE APPLICABLE CODES, SE MENTS AND ARE INTERCHANGEABLE ORIGINALLY SUPPLIED, UNLESS OF	ECIFICATION IN FORM, F	NS. AND PURCHA IT AND FUNCTI	SE ORDER REQUIRE-
The referenced QA Data Packag acceptable, except as noted be requirements may result in equ status by the EPS QA Departmen	elow. Monc uspment bes	ng released to	ship in a QA HOL
Monconformance(s) to requirem	ents: <u>N</u>	/8	
Nonconformance(s) will be/was	resolved a	s follows:	N/A
Shipment was made because:	N/A		
ATTACHMENT-Z		A or Total	2-27.90
24 % 26		Manager / EPS	QA Date
		/	
			I MARE / UP ADDOCT



. . 7 7 7 7 1 0 2 5

10	S. Dasgupta, Quality Assurance	BWNS 205538 5 (10/89)
From	C.A. Quellette, Materials Support Ca. Quellette	Customer or File
Subi	C.A. Ouellette, Materials Support C.A. Quellette	Date

The customer's purchase order, S 010463 D90, specifies that the supplier shall provide certification that the product (Flange for CRDM connection to reactor vessel nozzle flange, B&W P/R 1006110-004) supplied meets the requirements of the ASME Boiler and Pressure Vessel Code for Class I, Nuclear Power Plant Components, Section III, 1968 edition through Summer 1970 addenda

The parts were manufactured to the ASME Boiler and Pressure Vessel Code. Section III, 1974 edition with no addenda.

It has been determined through a review of the ASME Boiler and Pressure Codes for Class I, Nuclear Power Plant Components, Sections II and III, 1968 edition through Summer 1970 addends and 1974 edition with no addends, that the plates are equivalent in chemicals, physicals, and testing, and are acceptable for the intended application.

Africe 2/20/90

cc: RR Klein
HB Prasse
KS Price
CA Ouellette
E Wilder

ATTACH MENT - Z

PAGE 2 OF 3

BW Nuclear Service Company Engineering & Plant Service Division CERTIFICATE OF CONFORMANCE N.cieer Perts Center CUSTOMER/PLANT SITE: _ Toledo Edison Co. CUSTOMER ORDER NO. : 5 010463 090 CUST. C.O. NC. (S): _____ ORIGINAL/REFERENCED BEN SPECIFICATION/DRAWING (WHEN REDUIRED): _____ MUCLEAR PARTS TECHNICAL DOCUMENT(S): 21-1144888-02 BEW CONTRACT NO. : _788-7089095 OR DATA PACKAGE NO. : _23-1178125-01* BEW ORDER NO. : 83-765184-13 PAW CO. D. NO. (S): 14 ASME III Certificate of Authorization No. N-1650 expires 1/21/92. CUSTOMER BAN P. O. QIY. ITEM NO. ITEM NO. BAN P/N DESCRIPTION Flange Rings, S/N'nz 79421-46, 37, 2, 24, 22, 44, 43, 27, 14, 15, 50, 33, 3, 40, 48, 21, 20, 4, 11, 49, *Added: 39,08,35. The above supplied items comply with all of the requirements of the ourchase order. BUNS DA Program 56-1151178-08 applies to this order. THE BEW NUCLEAR SERVICE COMPANY, ENGINEERING & PLANT SERVICE DIVISION, HEREBY CERTIFIES THAT THE ITEMS LISTED ABOVE ARE FURNISHED IN ACCORDANCE WITH THE APPLICABLE CODES, SPECIFICATIONS, AND PURCHASE ORDER REQUIRE-MENTS AND ARE INTERCHANGEFBLE IN FORM, FIT AND FUNCTION WITH THOSE ORIGINALLY SUPPLIED, UNLESS OTHERWISE NOTED BELOW. The referenced QA Data Package has been reviewed by EPS QA and found acceptable, except as noted below. Monconformance to referenced requirements may result in equipment being released to ship in a QA HOLD status by the EPS OA Department. Nonconformance(s) to requirements: ___ Nonconformance(s) will be/was resolved as follows: ____N/8-N/A Shipment was made because: _ Toledo Edison ON Gocument Heview *Rev. 01-Increase quantity to EAMay 23. Added S/N's 39,08,35. IMA 7200 REVIEW contained in Date Manager Rev. 00. ATTACH ME UT - Z

I THE STATE OF THE UNITED

Aug-real of this columnet does not with " U / onlyset specification

- 2. I. V SAN

requiements V

26 01 26

PAGE __ OF _

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

A soft with the state of the soft of the s
1. Work performed by B & W NUCLEAR SERVICE COMPANY PER : P.O. C 605600 D92 TASK 5.0
1. Work performed by
3315 OLD FOREST ROAD, P.O. BOX 10935 LYNCHBURG, Va 24506
(aodress)
2 OWNER TOLEDO EDISON COMPANY
The state of the s
300 MADISON AVENUE TOLEDO OHTO 43652
DAVIE DESCE NIV. END PAULES STATIONS
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 I-I OG3-OI (FEEDWATER)
5. a. identification of component repaired, modified or replaced OTSG 1-1 FEEDWATER RISER PIPE
b: Name of manufacturer BAISCOCK # WILCOX
c: Identifying nos 620 -0014-55-11 N-158 NA 0T361-1 1972
(mart, serial no.) (Net t. Bd. no.) (unsolctional no.) (other) (year built)
6. Applicable section(s) XI of ASME Code, 1986 edition N/A addenda NO Code Case N/A
7. Design responsibilities BABCOCK WILCOX
8. Tests conducted: hydrostatic pneumatic design pressure pressure psi. IN SERVICE 9. Description of work ADD AN ADDITIONAL FIELD WELD TO FEED WATER RISER PIPE AT EACH RISER
9. Description of work ADD AN ADDITIONAL FIELD WELD to sketch(es) is acceptable if properly identified)
ON OTSG 1-1 (32) WELDS TOTAL, ADDED FIELD WELDS PER NCR 93-0120 AND
93-0115 . REPLACED STUDS AND NUTS AT RISER LOCATION 1-31 (BEA.) AND 1-19 (1EA.) 50'CLOCK POSITION.
10. Remarks: WPS USED 51-1221674-01
WELD TRAVELER 50-1218800-02
* PERFORMED BY TOLEDO EDISON
ALSO SEE CODE CASES N-474, 416 AND 416-1
ALSO SEE CODE CASES N-4/4, 4/6 AND 4/6
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 19 94
Signed BWAS Super Constitution (Ittle) (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 com-
petency issued by the state or province of and employed by A S B T + T
of #APTE to Chave inspected the repair, modification or replacement described in this report
on 5-6 19 95 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.
5-6 92 7/ C (NBID992 ANI) fin Com_
Date 197 Signed Tax Signed Commissions (Nat') 8d no lincluding 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

BIN NUCLEAR SERVICE C	OMPANY PER: P.O. C 605600092 TASK 5.0
1. Work performed by	(name) (repair organization's P.O. no., job no., etc.)
3315 OLD FOREST ROAD P.O. BOX	10935, LYNCHBURG, Va. 24506
2. Owner TOLEDO EDISON COMPANY	(name)
TO EN	
300 MADISON AVENUE TOLEDO	Laddress
3. Name, address and identification of nuclear power plant DA	IN BESSE NUCLEAR PANER STRTION
5501 NORTH STATE ROUTE Z, OAK	HARBOR ONIO 43449
a. Identification of system	3-01
5. a: Identification of component repaired, modified or replaced	OTSG 1-2 PEEDWATER RISER PIPE
h. Name of manufacturer BABCOCK 1 WILLOX	
c: Identifying nos. 620 - 00/4 - 55 - /2 N - /59	(jurisdictional no.) (other) (year built)
Annual Resident Control	
6. Applicable section(s) A of ASME Code, 19.5 G	edition N/A addenda NO Code Case N/A
7. Design responsibilities BABCCCK ! WILCOX	The second of th
* 8. Tests conducted: hydrostatic D pneumatic D design	ADD AN ADD IT WAL FIELDWELD TO FEEDWATER
9. Description of work CTSG 1-2 (32) Sector (use of additional	sheel(s) or sketch(es) is acceptable if properly identified)
DIES DIPE OF TACH PIER PERIOT S	TUBS I NUTS AT RISER LOCATIONS Z-25 (BEA.)
Z-14 (8EA.) Z-29 (8EA.) AND Z-27	(B FA.)
10. Remarks: WPS USED 51-12 2/674-0/	A STATE OF THE PROPERTY OF THE
10. Hemarks: OUT 3	
WELD TRAVELER 50-12 18800-02	
* PERFORMED BY TOLEDO EDISON	
ALSO SEE CORE CASES N - 474 4/6	1011 - I
ALSO SEE CORE CASES N - 4/74, 4/6	416-1
CONTRACTOR OF THE PROPERTY OF	
CERTIFICA	TE OF COMPLIANCE
We certify that the statements made in this report are correct and t	hat all design, material and workmanship on this MeDiFiCATION
conforms to the applicable section of the ASME Code.	preparation of replantation of
Certificate of Authorization no. 64 to use the "NR" star	mp expires MAY 17 19 94
Signed BWNS The ### For S	Das Gupta MANAGER BWNS QA 1912
	ATE OF INSPECTION
I, the undersigned, holding a valid commission issued by the Nati	ional Board of Boller and Pressure Vessel Inspectors, and certificate of com-
petency issued by the state or province of	inspected the repair, modification or replacement described in this report
	edge and belief, this repair, modification or replacement has been made or
constructed in accordance with Section XI and Section III of th	e ASME Code and the National Board rules as defined in the publications
NR.65 and NR.102 current aditions. By signing this cartificate of	either the inspector nor his employer makes any warranty, expressed or im-
plied concerning the censis modification or reniacement descri	bed in this report. Furthermore, neither the Inspector nor his employer shall
he liable in any manner for any personal injury of property darr	age or a loss of any kind arising from or connected with this inspection.
Date 5- 6 1983 Signed Refer & Corol	Commissions NB 10892 ANT) OF CO
(Authorized Inspection	inal i so no including endorsements) state or province and included

1.	WORK PERFORMED BY BIN NUCLEAR SERVICE COMPANY PER PO. C. 605600 D92 TASK 5.2
	3315 OLD FOREST ROAD PO BOX 10935 LYNCHBURG VA Z4506
	180°04)
2	OWNER TOLEDO EDISON COMPANY
	[Fafre]
	300 MADISON AVENUE TOLEDO ONTO 43652
	MOPPOPS)
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 0736 - 063-01
5	a: Identification of component repaired, modified or replaced OT 3 4 - 1-1
	b: Name of manufacturer BABCOCK ! WILCOX
	c. Identifying nos 620-0016-55-11 N-15R N/8
	(mir a sensi no.) (har't Sid no.) Gunadictional no.) (other) (mae' built)
6.	Applicable section(s) XI of ASME Code, 19 86 edition N/A addenda NO Code Case N/A
7.	Design responsibilities BABCOCK WILCOK
6.	Tests conducted: hydrostatic □ pneumatic □ design pressure □ pressurepsl.
9.	Description of work PERFORM TUBE PLUGGING AND STABILIZATION ROSEA ON CONTRACT
	transfer a montain a metallinative schapene il supporti logi
	EXAMINATIONS IN CTSG 1-1 (B STEAM GENERATOR INLET AND OUTLET)
10	Remarks: SEE BWNS FIELD PROCEDURE 1154835 A REV. 29 FOR DOCUMENTATION
	OF WORK PERFORMED.
	SEE (3) PAGE LIST IDENTIFIED AS OCIE 93-440 Pg 2 OF/3 THRU 4 OF 13
******	FOR ROW, COL. AND PLUG SERIAL NUMBER INSTALLED
	grand the state of
-	
*	ALSO SEE ASME SECTION III 1986 NO ADDENDA AND 1989 CODE CASE N-474-1
Mr.	MATERIAL ASME SECTION II 1968 EDITION WITH SUMMER 1968 ADDENDA
幺	MANUFACTURER: ASME SECTION III 1968EDITION WITH SUMMER 1968 ADDENDA
	THE THE ADDENDA
	CERTIFICATE OF COMPLIANCE
Ne	certify that the statements made in this report are correct and that all design, material and workmanship on this MODIFICATION
cor	itorms to the applicable section of the ASME Code.
	rificate of Authorization no. 64 to use the "NR" stamp expires MAY 17 19 94
	Company of the compan
	reper organization: seuthbridge representatives
	CERTIFICATE OF INSPECTION
. 19	he undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of com-
pet	ency issued by the state or province of DHID and employed by H. S. B. I. Co.
-	of MARTPERD CT have inspected the repair, modification or replacement described in this report
	19 13 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or
con	istructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications
NR	THE PARTY WITH THE PARTY OF THE
7 90	65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes
plie	too and MB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty expressed or im-
Dille	ed and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or im- id, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall
be	do and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or im- id, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
bie	ed and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or im- id, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall

1. Work performed by B W NUCLEAR SERVICE COMPANY PER: PO. C605600 D92 TASK 5. 2A PROPER organization & P.O. no., No. no. no. no. no. no. no. no. no. no. n
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 ORK HARBOR, OHIO 43449
4. Identification of system 0756 1-2 063-01
5. a: Identification of component repaired, modified or replaced OTSG 1-2 b: Name of manufacturer BABCOCK 1 WILCOX
c: Identifying nos 620 -0014-55-12 N-159 N/A OTS 6 1- Z 1972
6. Applicable section(s) ST of ASME Code, 19.86 edition, N/A addenda NO Code Case, N/A
7. Design responsibilities BABCOCK & WILCOX
8. Tests conducted: hydrostatic D pneumatic D design pressure D pressure psi. 9. Description of work PERFORM TUBE PLUGGING AND STABILIZATION BASED ON EDBY CURRENT (use of additional shapedis) or shapeding is acceptable if property identified)
EXAMINATIONS IN OTS 6 1-2 (A STEAM GENERATOR INLET AND OUT LET)
10. Remarks: SEE BWAS FIELD PROCEDURE 1154835A REV. 29 FOR DOCUMENTATION OF WORK PERFORMED
MORK PERSONNED
SEE ATTACHED (20) PAGE LIST IDENTIFIED AS GCIR 93-471 PG 2 OF41 THRU 21 OF41
FOR ROW, COL, AND PLUG SERIAL NUMBER INSTALLED
** N/A ASME SECTION XT 1986 NO ABBENDA
K ALSO SEE ASME SECTION III 1986 NO ADDENDA AND 1989 CODE CASE N-474-1
* METERIAL: ASME SECTION II 1968 EDITION WITH SUMMER 1968 ADDENDA
* MANUFACTURER: ASME SECTION ITT 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 PODIFIC A TIO AS speak, modification or representation of the ASME Code.
Cardinate of Authorization on 64 to use the "NR" stamp expires MAY 17 19 94
Signed BWAS CATILLY FOR S. DAS GUPTA MANAGER BWAS QA 4-20 19 93
CERTIFICATE OF INSPECTION
L the undersigned, holding a valid commission issued by The National Board of Boller and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of OHID and employed by H. S. B. T. (CO.
of HARTISON D. CT have inspected the repair, modification or replacement described in this report
on 4-20 19 93 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
MB-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 4-20 1923 Signed Reduct E. Coop Commissions NB 10992 (ANI) Edito Corporate Insurance and number

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

1. Work performed by B # W N	UCLEAR SERVICE COMPANY PER P.O. C 606600 D92 TASK # 428
3315 OLD FOREST	ROAD P.C. BOX 10935 LYNCHBURG Va 24506
2 Owner TOLEDO EDISON	COMPANY
2. Owner TOLEDO EDISON	(Name)
300 MADISON AL	VENUE TOLEDO OHIO 43652
	(address)
3. Name address and identification	n of nuclear power plant DAVIS BESSE NUCLEAR POWER STRTION
5501 NORTH STA	TE KOUTE Z, OAK HARBON, OHIO 43447
4. Identification of system MA	KE UP 065-01
5. a: identification of component r	repaired, modified or replaced MUIA VALVE
b: Name of manufacturer VE	LAN INC.
K c: Identifying nos	al no.) (Nat'l Bolino.) (jurisdictional no.) (other) (year built)
	of ASME Code, 19 8 6 edition. N/A addenda NO Code Case N/A
7. Design responsibilities VEL	
8. Tests conducted: hydrostatic A	m REPAIR WORK ON LETDOWN COOLER VOLVE MUIA VALVE **
9 Description of work 1 sweet	(use of additional sheetis) or sketch(es) is acceptable if properly identified)
PRESERVICE HYDROST	ATIC TEST TO BE PERFORMED BY TOLEDO EDISON . (LEAK AGE)
10 Remarks: SEE FPR - 9	3-0059-701 FOR APPROVAL OF MATERIALS DIFFERENT THAN
ORIGINAL DESIGN	
* ALSO SEE 1948 ASMI	E STANDARD COPE FOR PUMPS AND VALVES (DRAFT)
* * SEE : VELAN FORGE	D GATE VALVE MAINTENANCE (03-1221774), PACKING VALVES
(03-1271773) MAINT	TENANCE AND REPAIR OF LIMITORQUE VALVE ACTUATORS TYPES
SMB-00 THROUGH 5M	B-000 (03-1221722) FOR DOCUMENTATION OF WORK.
REPLACED WEDGE 5	TOCK CORE T 326313; SA 182 FXM-19 STELLITED; HEAT \$ 697657
REPLACED STEM 3	TRICK CODE T326963; SA 564, 68 680; HEAT # H 5364
	Doe north section Til
	BRIGINALLY CONSTRUCTED TO PRE ASME SECTION TIL
(REPORT 1471) N	-Z CODE DOTA REPORT NOT REQUIRED .
B PEEFORMED BY TOL	EN FOISON
M LECLORISED 21 LOG	-COO - COO -
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	CERTIFICATE OF COMPLIANCE
this carries that the statements made	e in this report are correct and that all design, material and workmanship on this REPLACEMENT/Mobification or replacement
conforms to the applicable section	repair, modification or replacemen
Conforms to the applicable section	64 to use the "NR" stamp expires MAY 17 19 94
Signed BWNS	LAN PETELLOTE FOR S. DASGUMA MANAGER BWNS QA 5/6 1993
irepair organizationi	(initial) (date)
	CERTIFICATE OF INSPECTION
I the undersigned holding a valid of	commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of com-
petency issued by the state or pro	wince of OH. and employed by H 5. B IY Co
and the state of the state of the	of Hagr Fine CT have inspected the repair, modification or replacement described in this report
on 5-6 1993 and state	that to the best of my knowledge and belief, this repair, modification or replacement has been made of
constructed in accordance with S	ection 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	s. By signing this certificate, neiths: the inspector nor his employer makes any warranty, expressed or in
plied concerning the repair modif	fication or replacement described in this report. Furthermore, neither the Inspector nor his employer sha
be liable in any manner for any no	ersonal injury or property damage or a loss of any kind arising from or connected with this inspection
Date 5-6 1953 Sinner	Tolet E. Carl Commissions NBIUSY'E MAN Hours Comme
Date 5-4 1913 Signed	Authorized Inspectors Commissions NBID592 APT Has Commented in Authorized Inspectors (Nat I Bd no lincluding endorsements) state or province and num

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

Work performed by Welding Services Inc.	(name)	6410D93	(reper organics	tion's P. O. no. job. no.,etc.)
2225 Skyland Ct., Norcross, Georgia,	3007.1			
Owner Toledo Edison Company	(ecid/ress)		District of the South Wilders Constitution of the South	
300 Madison Ave., Toledo, Ohio 43652	(name)			
Name, address and identification of nuclear power plant Davis Oak Harbor, Ohio 43449	-Besse Nucle	ar Power Plant	Unit 1 550	01 N. S.R. 2,
System Reactor Coolant, Steam Generator	1-2		A CONTRACTOR OF THE CONTRACTOR	
a Component repaired, modified or replaced OTSG 1-2				
b Name of manufacturer Babcock & Wilcox Compa	ny		\$1.7 A	1070
c identifying nos 620-0014-55-12, N159,	N/A	The state of the s	N/A	1972
(mit's serial no.) (Nes'). Bd. No.)	(junedictiona		(other)	(year built)
d Construction Code ASME III 1968 Summer		32-4. 1407-1		(Code Class)
(edition) (edition)		(Code Cate	None	(CODE CHINE)
Section XI 1986	None		(Code Case(s))	
(edition)	(addends)	nianamante were made	877277777	
Applicable edition of ASME Code Section XI under which repairs,	ITIGOTINGEDOTE, OF TH	Prince Committee		rocks) (Code Case)
Design responsibilities Toledo Edison Tests conducted hydrostatic D pneumatic D design pressure		1) Acc	antaraa ta	he performed
Design responsibilities		1) 100	ontonoo to	he nerformed I
TARRE OCCUMEN NUMBER DUSTORISTIC II DIRUTTADO LI URBIGII DIREGOLI	re Dressure	psi 1) ACC	eptance to	De berrormen
	re D pressure	Tol	edo Edison	be perrormen
Description of work	r sketch(se) is acceptable	I property identified)	Ledo Edison	
Description of work	swetch(see) to accomplished 4622.10 on	# property identified) the OTSG 1-2 (Generator Up	per Hand Hole
Repair of cladding per ASME Sec III NE	4622.10 on	the OTSG 1-2 (WSI performed	Generator Up	per Hand Hole
Repair of cladding per ASME Sec III NE	4622.10 on	the OTSG 1-2 (WSI performed	Generator Up	per Hand Hole
Repair of cladding per ASME Sec III NE	4622.10 on AO8240 R/O.	# property identified) the OTSG 1-2 (WSI performed eat treatment.	Generator Up	per Hand Hole
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A	4622.10 on AO8240 R/O.	the OTSG 1-2 G WSI performed eat treatment.	Generator Up	per Hand Hole
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A	4622.10 on AO8240 R/O.	the OTSG 1-2 G WSI performed eat treatment.	Generator Up	per Hand Hole
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, Dye Penetr	3 4622.10 on 008240 R/O. 2 postweld he ant Examina:	wsi performed at treatment.	Generator Up	per Hand Hole
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, Dye Penetr	4622.10 on AO8240 R/O.	wsi performed at treatment.	Generator Up	per Hand Hole
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks supplied preheat and intermediate per WSI QAP 9.6 Rev. 0 Dye Penetr	* SHOPECHEEN) TO SOCIOPALINE 3 4622.10 on 408240 R/O. 2 postweld he ant Fxamina	# property identified the OTSG 1-2 (WSI performed eat treatment.	Generator Up NDE. and Co NDE was p	per Hand Hole operheat erformed
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks: Supplied preheat and intermediate per WSI QAP 9.6 Rev. 0 Dye Penetr CEPTER. We certify that the statements made in this report are correct and the National Board rules as defined.	scentifical to acceptance 3 4622.10 on a08240 R/O. postweld he ant Fxamina: FICATE OF COMPLIANCE IN THE PUBLICATION OF COMPLIANCE	properly identified: the OTSG 1-2 (WSI performed eat treatment. Tion. ANCE tion or replacement of too N8-102, current edition.	Senerator Up NDE. and Co NDE was p	per Hand Hole operheat erformed
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/0 7 WPS #A Remarks supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as defined.	scentifical to acceptance 3 4622.10 on a08240 R/O. postweld he ant Fxamina: FICATE OF COMPLIANCE IN THE PUBLICATION OF COMPLIANCE	# property identified the OTSG 1-2 (WSI performed eat treatment. Tion. ANCE	Senerator Up NDE. and Co NDE was p	per Hand Hole operheat erformed
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks: Supplied preheat and intermediate per WSI QAP 9.6 Rev. 0 Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as defined to us	secretaines) is acceptance at 4622.10 on a08240 R/O. postweld he ant Fxamina: FICATE OF COMPLIANCE IN THE PROBLEM OF THE PRO	properly identified: the OTSG 1-2 (WSI performed eat treatment. Tion. ANCE tion or replacement of too N8-102, current edition.	enerator Up NDE. and Co NDE was p	per Hand Hole operheat erformed
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/0 7 WPS #A Remarks supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as defined to the Certificate of Authorization no. NR-69 to us to us	PRATE OF COMPLITE THE PROPERTY OF COMPLETE	wsi performed eat treatment. ion. ANCE tion or replacement of to N8-102, current edition of the Nov. 7	he items described	per Hand Hole operheat erformed
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks: Supplied preheat and intermediate per WSI QAP 9.6 Rev. 0 Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as defined to us	PRATE OF COMPLITE THE PROPERTY OF COMPLETE	properly identified: the OTSG 1-2 (WSI performed eat treatment. Tion. ANCE tion or replacement of too N8-102, current edition.	he items described	per Hand Hole operheat erformed above conforms to
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/0 7 WPS #A Remarks supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as definitionate of Authorization no. NR-69 to us	PRATE OF COMPLITE THE PROPERTY OF COMPLETE	wsi performed eat treatment. ion. ANCE tion or replacement of to N8-102, current edition of the Nov. 7	he items described	per Hand Hole operheat erformed above conforms to
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks: supplied preheat and intermediate per WSI QAP 9.6 Rev. 0. The Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as definitionate of Authorization no. NR-69 to us Date 4-7 19.93 Signed Welding Services	PRATE OF COMPLITE THE PROPERTY OF COMPLETE	wsi performed eat treatment. ion. ANCE ton NB-102, current editi (pires Nov. 7	he items described	per Hand Hole operheat erformed above conforms to
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Permarks supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as defin Certificate of Authorization no. NR-69 to us Date 4-7 19.93 Signed Welding Services in the section of the National Board rules as defined to us	PICATE OF INSPEC	wsi properly identified the OTSG 1-2 (WSI performed eat treatment. ion. ANCE tion or replacement of the on N8-102, current edition or replacement of the one N8-102, current edition or replacement of the one N8-102, current edition or replacement of the one N8-102, current edition or replacement of the one N8-102, current edition or replacement of the one N8-102, current edition or replacement of the one N8-102, current edition or replacement of the one N8-102, current edition or replacement of the one N8-102, current edition or replacement of the one N8-102, current edition or replacement of the one N8-102, current edition or replacement of the one N8-102, current edition or replacement edition	he items described on . 19 95	per Hand Hole operheat erformed above conforms to
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks: Supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as definicate of Authorization no	PICATE OF INSPEC	wsi performed the OTSG 1-2 (WSI performed eat treatment. ion. ANCE tion or replacement of the NB-102, current edition of the Nov. 7 But Gaste (Authorized represent to the Nov. 7	he items described on 1995 QA St.	per Hand Hole operheat erformed above conforms to
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks. Supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as defining to us to us the manual point of the ASME Code and the National Board rules as defining to us to us the manual point of the ASME Code and the National Board rules as defining to us to us the manual point of the Manual Point of the Manua	PICATE OF INSPECtional Board of Boile imployed by H	wsi performed eat treatment. ion. ANCE tion or replacement of ton N8-102, current edition pires Nov. 7 Began authorized representation of the control of	he items described on 19 95 QA Standard on 19 95	per Hand Hole operheat erformed above conforms to opervisor and state that to the
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks. Supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as defining to us to us to the ASME Code and the National Board rules as defining to us to us to us to the ASME Code and the National Board rules as defining to us to us to us to us to the ASME Code and the National Board rules as defining to us to	secichies) is acceptante 3 4622.10 on 108240 R/O. 2 postweld he cant Examinat FICATE OF COMPLI the repair, modificat ned in the publicable the "NP" stamp s. PICATE OF INSPEC- tional Board of Boile is employed by H ment describe in the	wsi performed eat treatment. ion. ANCE tion or replacement of the NB-102, current edition of the Nov. 7 But authorized representations of the Nov. 7	he items described on 1995 OA Standard OB 1995 The process and obtained on 1995 The process of 1993 The process of 1993	per Hand Hole operheat erformed erformed above conforms to opervisor the of competency and state that to the Second and the Nation
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks. Supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as defining to us to us to the ASME Code and the National Board rules as defining to us to us to the Asme Section Secti	secichies) is acceptante 3 4622.10 on 108240 R/O. 2 postweld he cant Examinat The repair modification of the publicable and in the publicable and the "NP" stamp so anization) PICATE OF INSPEC	wsi performed eat treatment. ion. ANCE tion or replacement of the NB-102, current edition of the Nov. 7 But Grand Pressure Vessel in the Nov. 7 TXM or and Pressure Vessel in the Nov. 7 is report on 4/1/15 to in accordance with the Nov.	he items described on 1995 OA Standard OF 1995 The process and oen 1995 The process of the ASM octor nor his employers and oen 1995	per Hand Hole operheat erformed above conforms to pervisor the competency and state that to the ECode and the Nation yer makes any warran
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks. Supplied preheat and intermediate per WSI QAP 9.6 Rev. 0. Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as definitionate of Authorization no. NR-69 to us Date4-719.93 Signed Welding Services process or supplied by the state or province ofOH/O	**Section of secondaries a 4622.10 on 108240 R/O. **postweld he can't Examinate Fixaminate Fixamin	with performed the OTSG 1-2 (WSI performed the treatment. TON. ANCE TON PERSON TON TON TON TON TON TON TON TON TON T	he items described on	per Hand Hole operheat erformed erformed above conforms to ipervisor (make) and state that to the EC Code and the Nation yer makes any warrancector nor his employed.
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Permarks. Supplied preheat and intermediate per WSI QAP 9.6 Rev. 0, The Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as defined in the ASME Code and the National Board rules as defined as the section XI of the ASME Code and the National Board rules as defined by the state or province of Welding Services and the undersigned, holding a valid commission issued by the state or province of Welding Services beat of my knowledge and belief, this repair, modification or replace Board rules as defined in the publication NB-102, current edition, expressed or implied, concerning the repair, modification or replace shall be lighted any manner for any personal injury or property distant the lighted any manner for any personal injury or property distant the property of the state of the property of the state of the property of the state of the property of the property of the state of the property of the state of the property	**Section of secondaries a 4622.10 on 108240 R/O. **postweld he can't Examinate Fixaminate Fixamin	with the OTSG 1-2 (WSI performed eat treatment. Tion. ANCE Tion or replacement of the property of the New York of the property of the prop	he items described on 1995 A SI PROPERTY OF THE INSTITUTE OF THE INSTITUT	per Hand Hole operheat erformed erformed above conforms to include the conforms to include the conforms to the code and the Nation yer makes any warranteector nor his employed its inspection.
Repair of cladding per ASME Sec III NE Flange Face. WPS #M03243 R/O 7 WPS #A Remarks. Supplied preheat and intermediate per WSI QAP 9.6 Rev. 0. Dye Penetr We certify that the statements made in this report are correct and Section XI of the ASME Code and the National Board rules as definicate of Authorization no. NR-69 to us Date 4-7 19.93 Signed Welding Services process or and the undersigned, holding a valid commission issued by The National Board rules as defined in the state or province of \$\text{OHIO}\$ HIO and of Harress. CT have inspected the repair, modification or replace board rules as defined in the publication NB-102, current edition.	**Section of secondaries a 4622.10 on 108240 R/O. **postweld he can't Examinate Fixaminate Fixamin	with the OTSG 1-2 (WSI performed eat treatment. Tion. WSI performed eat treatment. Tion. WSI performed eat treatment. Tion. WSI performed eat treatment. Tion. WSI performed eat treatment. Tion. WSI performed eat treatment. Tion. WSI performed eat treatment. Tion. WSI performed eat treatment. Tion. WSI performed eat treatment. Tion. WSI performed eat treatment. Tion. Tion. WSI performed eat treatment. Tion. Tion. WSI performed eat treatment. Tion. Tion. Tion. Tion. WSI performed eat treatment. Tion. Tion. WSI performed eat treatment. Tion. Tion. WSI performed eat treatment. Tion. WSI performed eat treatment. Tion. Tion. WSI performed eat treatment. Tion. Tion	he items described on. 19 95 OA Station XI of the ASN or nor his employer, neither the inspector or nor his employer, neither the inspector nor his employer, neither the inspector or his employer, neither the inspector or his employer, neither the inspector or his employer, neither the inspector nor his employer, neither the inspector or his employer, neither the inspector or his employer, neither the inspector or his employer.	per Hand Hole operheat erformed above conforms to include the late of competency and state that to the IE Code and the Nation yet makes any warran pector nor his employing inspection.