WATERF RD 3 STEAM ELECTRIC STATION HIGHWAY 18 TAFT, LOUISIANA 70066

FOURTH REFUELING INSERVICE INSPECTION SUMMARY REPORT

OWNER
LOUISIANA POWER & LIGHT
317 BARONNE STREET
NEW ORLEANS, LOUISIANA 70160

AGENT
ENTERGY OPERATIONS, INC.
1340 ECHELON PARKWAY
JACKSON, MISSIS-IPPI 39213

AUTHORIZED INS. ZCTION AGENCY ARKWRIGHT MUTUAL INSURANCE COMPANY 225 WYMAN STREET WALTHAM MASSACHUSETTS 02154

COMMERCIAL SERVICE DATE: 09/24/85

Prepared !	ву:	Inservice Inspection	7/1/91 Date
Reviewed	Ву:	Inservice Inspection Lead	7/1/91 boxe
Reviewed	By:	Procurement/Programs Manager	/ 8-6-91 Date
Reviewed	Ву:	Ly Grell Director, Engineering	/ s/-/91 Date
Reviewed	Ву:	Althorized Nuclear Inservice Inspecto	8/1/91 or 8/1/91

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1.0 Introduction

In sucordance with IWA-6000 of ASME Section XI, 1980 Edition thru Winter 81 Addenda, the following is the Inservice Inspection (ISI) summary Report for the Fourth Refueling Outage of Waterford Steam Electric Station, Unit 3. Refuel 4 was the second outage of the second inspection period in the first ten year interval. Included in this report are summaries of examinations, abstracts of conditions found and corrective actions taken, repair/replacement activities and the "Owners Data Report for Inservice Inspection", Form NIS-1. The NIS-2 form, although not mandatory by the Winter 81 Addenda of Section XI, is being used to document repa /replacement activities.

This Summary Report covers Class 1, 2, and 3 components and their supports examined since the RCS Leakage Test at start-up from Third Refueling (11/15/89) up to the RCS Leakage Test at start-up from Fourth Refueling (5/21/91). The NIS-2 forms are included in Section 7.0 of this report and document Class 1 and 2 components and their supports which were repaired/replaced during this same time period.

The selection of items examined during Refuei 4 was based upon the requirements of the Waterford 3 Ten Year ISI Program. These items are listed by Code Item number in Sections 2.2, 3.2, 4.2 and 5.2 of this report. The items which received a limited exam during Refuel 4 have been identified by a note in the comments column. These items will be included in the applicable Relief Request (i.e., ISI-001, ISI-006, ISI-010) in the next revision of the Ten Year ISI Program.

There were four (4) methods of NDE utilized during the implementation of the program: ultrasonics (UT), penetrant (PT), magnetic particle (MT) and visual (VT). All procedures were developed by Entergy with the exception of the procedure used for ultrasonic detection of Intergranular Stress Corrosion Cracking (IGSCC), which was developed by Ebasco Services, Inc. All procedures were reviewed by Entergy and Factory Mutual (ANII) prior to use. Overall implementation and supervisory control of contractors involved with Inser ice Inspection was accomplished with Entergy personnel. The calibra, ca standards used during Refuel 4 are the same standards which were utilized during Preservice examinations with exception of the calibration standard used for Reactor Coolant Pump stud examinations. A new stud calibration standard was developed to facilitate examination from the bore hole. The UT equipment used were USK 6, USK 7 and USL 38 instruments manufactured by Krautkramer. The transducers used were manufactured by Aerotech, Megasonics, Sigma and RTD.

All NDE data, procedures, equipment certifications, material certifications and personnel certifications associated with the examination portion of this report are stored in Waterford 3 Plant Records under R-Type C4.02 (NDE data) and I1.15 (procedures/certifications). Steam Generator tube eddy current examination is being reported in accordance with Waterford 3 Technical Specifications and is not included in this report.

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

	(Name and Address of Owner)	
2.	Plant Waterford Steam Electric Station, Highway 18, Taft, LA 70066	
	(Name and Address of Plant)	
3.	Plant Unit 34. Owner Certificate of Authorization (if required) N/A	
5.	Commercial Service Date 9/24/85 6. National Board Number for Unit See Below	

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7. Com	pone	DI US	D.SZ	ecu	rd

Component or Appurenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Steam Generator #2	Combustion Engineering	74270-2	N/A	22157
R. C. Pump 1A	Byron Jackson	711-N-0176	N/A	N/A
R. C. Pump 1B	Byron Jackson	711-N-0174	N/A	N/A
R. C. Pump 2A	Byron Jackson	711-N-0173	N/A	N/A
R. C. Pump 2B	Byrou Jackson	711-N-0175	N/A	N/A
Class 1 Valve SI-142A	Anchor/Darling	40345820	N/A	N/A
Class l Piping & Supports	Dravo, Bergen-Paterson	*	N/A	N/A
Class 2 Piping & Supports	Dravo, Bergen-Paterson	*	N/A	N/A
CS Pump B Support	Babcock & Wilcox	71311	N/A	N/A
			No. of Contract of Contract of the Contract of	

^{*} Piping systems and component supports are too numerous to list. See Sections 2.0, 3.0 and 5.0 of this report for complete list of components examined.

FORM NIS-1 (back)

8. Examination Dates 3/16/91 to 5/21/91 9. Inspection Interval from 9/24/85 to 9/24/95
10. Abstract of Examinations, Include a list of examinations and a statement concerning status of work required for current interval. See Fourth Refueling Outage Inservice Inspection Summary Repo
11. Abstract of Conditions Noted See Fourth Refueling Outage Inservice Inspection Summary Report.
12. Abstract of Corrective Measures Recommended and Taken See Fourth Refueling Outage Inservi- Inspection Summary Report.
We certify that the statements made in this report are correct and the examinations and corrective mea- sures taken conform to the rules of the ASME Code, Section XI.
Der 7 / 10 9/ Signed Operations, Inc. By Ck. C. Thurself
Date 7/1 19 91 Signed Operations, Inc. By Chi & Famel
Certificate of Authorization No. (if applicable) N/A Expiration Date N/A CERTIFICATE OF INSERVICE INSPECTION
1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Louisiana and employed by See Below * of Norwood, MA have inspected the components described in this Owners' Data Report during the period 3/16/91 to 5/21/91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this 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 8/17 1991
Compaissions NB 7822, N. T. R. S. I.S. National Board, State, Province and No.
anne mangle nyber on an armine mangle for the contract of the

* Arkwright Mutual Insurance Company Factory Mutual System

2.0 Class 1 Examination Summary

2.1 Class 1 Examination Completion Status 2nd Period, 4th Refueling

CODE ITEM NO.	TOTAL EXAMS SELECTED FOR INTERVAL	EXAMS COMPLETED FOURTH REFUELING	TOTAL EXAMS COMPLETED TO DATE	% EXAMS COMPLETED TO DATE	COMMENTS
B1.11	3	0	0	0	DEFERRED
B1.12	9	0	0	0	DEFERRED
B1.21	1	0	0	0	DEFERRED
B1.22	10	0	4	40	
B1.30	1	0	1/2	50	
B1.40	1	0	2/3	66	
B2.11	2	0	1	50	
B2.12	4	0	2	50	
B2.31	10	3	6	60	
B2.32	18	0	12	66	
B2.40	2	0	1	50	
B3.90	6	0	2	33	
B3.100	6	0	2	33	
B3.110	5	0	3	60	
B3.120	5	0	3	60	
B3.130	6	0	4	66	
B3.140	6	0	4	66	
B4.11	16	16	16	100*	
B4.12	91	91	91	100*	
B4.13	10	10	10	100*	
B4.20	30	30	30	100*	
B5.40	5	0	3	60	
B5.130	-15	Ö	10	66	
B5.140	9	Ö	6	66	
86.10	54	Ö	36	66	
B6.30	54	0	36	66	
	54	0	27	50	
86.40					
B6.50	54	.0	36	66	
86.180	16	16	16	100	
B6.190	16	16	16	100	
86.200	16	16	16	100	
B7.20	1	0	2/3	66	
B7.30	4	0	2	50	
B7.40	4	0	2	50	
87.50	2	0	1	50	
B7.60	4	0	2	50	
B7.70	20	0	13	65	
88.20	1	0	2/3	66	
88.30	40	0	2/3	66	
89.11	80	4	53	66	
89.12	28	0	18	64	
89.21	91	5	60	66	

2.1 Cont'd Class 1 Examination Completion Status 2nd Period, 4th Refueling

CODE ITEM NO.	TOTAL EXAMS SELECTED FOR INTERVAL	EXAMS COMPLETED FOURTH REFUELING	TOTAL EXAMS COMPLETED TO DATE	% EXAMS COMPLETED TO DATE	COMMENTS
B9.31	3	0	2	66	
B9.32	4	1	2 0 2	50	
B10.20	4	0	2	50	
B12.10	2	0	0	0	DEFERRED
B12.20	1	1		100	
B12.40	1	0	0	0	DEFERRED
B12.50	6	1	4	67	
B13.10	1	0		100**	
B13.30	6	6	0	0	DEFERRED
B13.31	16	0	0	0	DEFERRED
B13.32	1	0	0	0	DEFERRED
B14.10	8	0	0	0	DEFERRED
Cat. F	-A 1	0	2/3	66	
Cat. F	-C 137	- 3	90	66	
Flywhee	els 4	4	4	100**	REG. GUIDE 1.14

^{* 100%} examined each refueling outage.

2.2 Class 1 Items Examined 4th Refueling

CODE CATEGORY	CODE ITEM #	WELD/ ITEM #	DRAWING	SIZE	MATERIAL	COMMENT
В-В	B2.31	04-032	1-3200	24" DIA.	CS CLAD	LIMITED EXAM
		04-033	1-3200	24" DIA.	CS CLAD	
		04-034	1-3200	24" DIA.	CS CLAD	
B-E	B4.11	02-8-01	1-1300	3/4" DIA.	INCONEL	SEE PARA. 6.2
		05-A-01	1-2100	3/4" DIA.	SS	SEE PARA. 6.2
		05-A-02	1-2100	3/4" DIA.	SS	SEE PARA. 6.2
		05-B-01 thru 05-B-04		3/4" DIA.	SS	SEE PARA. 6.2
		05-C-01	1-2100	1" DIA.	SS	SEE PARA. 6.2

^{** 100%} examined at approximately 3 year intervals.

FOURTH REFUELING INSERVICE INSPECTION SUMMARY REPORT

2.2 Cont'd Class 1 Items Examined 4th Refueling

CODE CATEGORY			DRAWING	SIZE		MATERIAL	COMMENT
B-E	B4.11	03-N-01 thru 03-N-04		3/4"	DIA.	SS	SEE PARA. 6.2
		04-N-01 thru 04-N-04	1-3200	3/4"	DIA.	SS	SEE PARA. 6.2
	B4.12	02-V-01 thru 02-V-91	1-1300	4"	DIA.	INCONEL	SEE PARA. 6.2
	B4.13	02-U-92 thru 02-U-10			IA.	INCONEL	SEE PARA, 6.2
	B4.20	05-H-01 thru 05-H-30	1-2100	1-1/2"	DIA.	SS	SEE PARA, 6.2
B-F	B5.40	16-017	1-4500	12"	DIA.	CS CLAD & CAST SS	
B-G-1	B6,180	38-S-01 THRU 38-S-16		4-3/4"	STUD:	s cs	
		39-S-01 THRU 39-S-16	1-5300	4-3/4"	STUD	S CS	BASELINE - NO CREDIT TAKEN
	86.190	39-L-01 THRU 39-L-16	1-5300	4-3/4" LIGAMEN		CS	
	86.200	38-N-01 THRU 38-N-16	1-5200	4-3/4"	NUTS	cs	
		39-N-01 THRU 39-N-16	1-5300	-3/4"	NUTS	CS	BASELINE - NO CREDIT TAKEN
B-J	B9.11	18-015	1-4104	12"	DIA.	SS	SEE NOTE 1
		18-019	1-4104	124	DIA.	SS	SEE NOTE 1
		18-020	1-4104	12"	DIA.	SS	SEE NOTE 1
		18-022	1-4104	12"	DIA.	SS	LIMITED EXAM

2.2 Cont'd Class 1 Items Examined 4th Refueling

CODE CATEGORY	CODE ITEM #	WELD/ ITEM #	DRAWING	SIZE	MATERIAL	COMMENT
B-J	B9.11	18-027	1-4104	8" DIA.	SS	LIMITED EXAM
		18-029	1-4104	8" DIA.	SS	
		20-027	1-4204	12" DIA.	SS	SEE NOTE 1
		20-029	1-4204	12" DIA.	SS	SEE NOTE 1
		20-030	1-4104	12" DIA.	SS	
		20-034	1-4104	12" DIA.	SS	SEE NOTE 1
	B9.21	20-061	1-4204	3" DIA.	SS	
		22-047	1-4205	3" DIA.	SS	
		22-048	1-4205	3" DIA.	SS	
		30-013	1-4207	3" DIA.	SS	
		30-014	1-4207	3" DIA.	SS	
	B9.32	21-030	1-4102	3" DIA.	SS	
B-L-2	B12.20	39-005	1-5300	72" DIA.	CAST SS	LIMITED EXAM
B-M-2	B12.50	SI-142A	1-4204	8" DIA.	CAST SS	
F-C	N/A	RCRR-0022	1-4505	2" DIA.	CS	
		RCRR-0031	1-4506	2" DIA.	CS	
		RCSH-0103	1-5100	4" DIA.	CS	
N/A	N/A	37-007	1-5100	78" DIA.	CS	RCP FLYWHEEL
		38-007	1-5200	78" DIA.	CS	RCP FLYWHEEL
		39-007	1-5300	78" DIA.	CS	RCP FLYWHEEL
		40-007	1-5400	78" DIA.	CS	RCP FLYWHEEL

NOTE 1: These high alloy stainless steel welds were ultrasonically examined without a scan to detect transverse reflectors during Refuel 3. This scan has been performed on each of these welds during Refuel 4.

Credit towards Table IWB-2412-1 of ASME Section XI was taken during Refuel 3.

- 2.3 Abstract of Conditions Noted and Corrective Actions Taken
 - 2.3.1 ISI examinations did not identify any conditions on Class 1 items which exceeded the allowable standards in IWB/IWF-3000.
- 2.4 Additional Examinations
 - 2.4.1 Additional examinations were not required on Class 1 items per IWB/IWF-2430.
- 2.5 Successive Examinations
 - 2.5.1 There were no success. examinations performed per IWB/IWF-2420(b) on Class 1 items during Refuel 4.
 - 2.5.2 There were no Class 1 items which met the criteria of IWB/IWF-2420(b) during Refuel 4. Therefore, no successive examinations will be required in future refueling outages.

3.0 Class 2 Examination Summary

3.1 Class 2 Examination Completion Status 2nd Period, 4th Refueling

ITS
Q. ISI-011
EACH PERIOD

3.2 Class 2 Items Examined 4th Refueling

CODE CATEGORY	CODE ITEM #	WELD/ ITEM #	DRAWING	SIZE	MATERIAL	COMMENTS
C-A	C1.10	04-035	2-3200	24" DIA.	cs	
C-B	C2.22	04-063	2-3200	34" DIA.	CS	
		04-064	2-3200	18" DIA.	CS	
C-F	C5.11	43-064	2-4101	8" DIA.	CS	
		44-070	2-4201	8" DIA.	CS	
		56-001	2-4209	10" DIA.	CS	
	C5.21	45-023	2-4102	18" DIA.	CS	SEE NOTE 1
		51-003	2-4106	14" DIA.	SS	SEE NOTE 2
		55-038	2-4111	6" DIA.	SS	LIMITED EXAM BASELINE - NO CREDIT TAKEN

3.2 Cont'd Class 2	Items	Examined	4th Refueling
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CODE CATEGORY	CODE	WELD/ # ITEM #	DRAWING	SIZE	MATERIAL	COMMENTS
C+F	C1.10	55-066	2+4113	6" DIA.	SS	LIMITED EXAM BASELINE - NO CREDIT TAKEN
		56-038	2-4211	6" DIA.	SS	LIMITED EXAM BASELINE - NO CREDIT TAKEN
		56-068	2-4212	6" DIA.	SS	LIMITED EXAM BASELINE - NO CREDIT TAKEN
F-A	N/A	62-104	2-5200	N/A	CS	
F-C	N/A	CSRR-0350	2-4109	10" DIA.	CS	
		CSRR-3010	2-4110	10" DIA.	CS	

- NOTE 1: This weld received a magnetic particle (MT) examination only. The required volumetric examination was performed during Refuel 3.

 Credit towards Table IWC-2412-1 of ASME Section XI was taken during Refuel 3.
- NOTE 2: This high alloy stainless steel weld was ultrasonically examined without a scan to detect transverse reflectors during Refuel 3. This scan has been performed on this weld during Refuel 4. Credit towards Table IWC-2412-1 of ASME Section XI was taken during Refuel 3.
 - 3.3 Abstract of Conditions Noted and Corrective Actions Taken
 - 3.3.1 ISI examinations did not identify any conditions on Class 2 items which exceeded the allowable standards in IWB/IWF-3000.
 - 3.4 Additional Examinations
 - 3.4.1 Additional examinations per IWC/IWF-2430 were not required on Class 2 items.
 - 3.5 Successive Examinations
 - 3.5.1 There were no successive examinations performed per IWC/IWF-2420(b) on Class 2 items during Refuel 4.
 - 3.5.2 There were no Class 2 items which met the criteria of IWC/IWF-2420(b) during Refuel 4. Therefore, no successive examinations will be required in future refueling outages.

4.0 Class 3 Examination Summary

1.1 Class 3 Examination Completion Status 2nd Period, 4th Refueling

ITEM NO.	TOTAL EXAMS SELECTED FOR INTERVAL	EXAMS COMPLETED FOURTH REFUELING	TOTAL EXAMS COMPLETED TO DATE	% EXAMS COMPLETED TO DATE
Cat. F-A	10	0	6	60
Cat. F-C	591		384	65

4.2 Class 3 Items Examined 4th Refueling

CODE CATEGORY	CODE ITEM #	WELD/ ITEM #	DRAWING	SIZE	MATERIAL	COMMENTS
F-C	N/A	ACH-0434	8469-315	6" DIA.	CS	
		ACH-0609	2469-202	6" DIA.	CS	
		ACR-0406	8469-195	6" DIA.	CS	LIMITED EXAM
		ACR-0407	8469-195	6" DIA.	cs	LIMITED EXAM
		ACR-0409	8469-195	6" DIA.	CS	LIMITED EXAM
		ACR-0417	8469-195	6" DIA.	CS	LIMITED EXAM
		ACR-0421	8469~315	6" DIA.	CS	LIMITED EXAM
		ACR-0422	8469-315	6" DIA.	CS	LIMITED EXAM
		ACR-0430	8469-315	6" DIA.	CS	LIMITED EXAM
		ACR-0443	8469~346	6" DIA.	CS	LIMITED EXAM
		ACR-0444	8469-191	6" DIA.	cs	LIMITED EXAM
		ACR-0450	8469-191	o" DIA.	CS	LIMITED EXAM
		ACR-0452	8469-191	6" DIA.	CS	LIMITED EXAM
		ACR-0457	8469-191	6" DIA.	CS	LIMITED EXAM
		ACR-0480	8469-346	6" DIA.	cs	LIMITED EXAM

4.2 Cont'd Class 3 Items Examined 4th Refueling

CODE	CODE	WELD/ ITEM #	DRAWING	SIZE		MATERIAL	COMMENTS
F-C	N/A	ACR-0564	8469-318	6"	DIA.	cs	LIMITED EXAM
		ACR-0565	8469-318	6"	DIA.	CS	LIMITED EXAM
		ACR-0566	8469-318	6"	DIA.	cs	LIMITED FXAM
		ACR-0588	8469-202	6"	DIA.	CS	LIMITED EXAM
		ACR-0589	8469-202	6"	DIA.	CS	LIMITED EXAM
		ACR-0607	8469-202	60	DIA.	CS	LIMITED EXAM
		ACR-0612	8469-324	6"	DIA.	CS	LIMITED EXAM
		ACR-1037	8469-315	6"	DIA.	CS	LIMITED EXAM
		ACR-1040	8469-328	10"	DIA.	CS	
		ACR-1042	8469-352	10"	DIA.	CS	
		ACR-1064	8469-352	10"	DIA.	cs	LIMITED EXAM SEE PARA. 4.3.1
		ACR-1093	8469-216	6"	DIA.	CS	LIMITED EXAM
		ACV-0451	8469-376	6"	DIA.	cs	LIMITED EXAM ADDITIONAL EXAM SEE PARA. 4.4.1
		ACV-0472	8469-346	6"	DIA.	CS	LIMITED EXAM SEE PARA. 4.3.3
		CCRR-0321	4305-6251	20"	DIA.	CS	
		CCRR-0322	4305-6251	20"	DIA.	CS	SEE PARA. 4.3.4
		CCRR-0359	4305-6254	30"	DIA.	CS	
		CCRR-0389	4305-6251	20"	DIA.	CS	
		CCRR-0444	4305-5685	20"	DIA.	cs	
		CCRP-0529	4305-6264	6"	DIA.	cs	LIMITED EXAM
		CCRR-0530	4305-6264	6"	DIA.	cs	LIMITED EXAM

4.2 Cont'd Class 3 Items Examined 4th Refueling

CODE CATEGORY		WELD/ ITEM #	DRAWING	SIZE		MATERIAL	COMMENTS
F-C	N/A	CCRR-0531	4305-6264	611	DIA.	cs	LIMITED EXAM
		CCSH-1166	4305-6377	20"	DIA.	CS	SEE NOTE 1
		MSRR-0284	4305-6912	8"	DIA.	CS	
		MSRR-0286	4305-6912	8"	DIA.	CS	SEE PARA. 4.3.5
		MSRR-3085	ESSE-MS-10	3 1"	DIA.	CS	
		MSSH-3084	4305-6912	4"	DIA.	CS	

- NOTE 1: This variable spring hanger was examined during Refuel 3 and rejected by the examiner due to corrosion on spring and interior of spring can. Engineering analysis determined the condition to be acceptable as is but recommended reexamination of the support during Refuel 4 to determine whether repainting is required. The support was determined to be acceptable during the Refuel 4 examination. Credit for this support was taken during Refuel 3.
 - 4.3 Abstract of Conditions Noted and Corrective Actions Taken
 - 4.3.1 Support No. ACR-1064: Visual examination (VT-3) revealed rust build-up on the spherical bearings. The film thickness of the rust build-up was reported as less than 1/16" thick and therefore was determined acceptable as is by Engineering. However, the support was disassembled, cleaned, repainted and reexamined.
 - 4.3.2 Support No. ACV-0451: Visual examination (VT-3) revealed that both spring cans were binding against insulation and one indicator bar was protruding into the insulation. Engineering analysis determined that the functional capability of the springs was not impacted and the support was determined acceptable as is. This support was examined as an additional exam in accordance with IWF-2430(a), see paragraph 4.4.1 for details.
 - 4.3.3 Support No. ACV-0472: Visual examination (VT-3) revealed a loose locknut and corrosion on the support. The locknut was tightened and the corrosion was removed. The support was repainted and reexamined. See paragraph 4.4.1 for additional examinations required per IWF-2430(a).

- 4.3.4 Support No. CCRR-0322: Visual examination (VT-3) revealed a corroded base plate and embed plate.

 Engineering analysis determined that the support could perform its intended function and therefore was acceptable as is. However, the corrosion was removed and the support was repainted.
- 4.3.5 Support No. MSRR-0286: Visual examination (VT-3) revealed an anchor bolt which was installed at an angle. Engineering analysis determined the angle to be 5.7° which is within the design tolerance of 6°. Therefore, the support was determined acceptable as is.

4.4 Additional Examinations

As required by IWF-2430(a), additional examinations were performed when component supports which required corrective measures in accordance with the provisions of IWF-3000 were discovered. Details of the selection process and additional examinations performed are discussed below. No credit toward completion is taken for additional exams.

4.4.1 Support %o. ACV-0472: Examination results required tightening of a locknut, therefore IWF-2430 applies. The downstream adjacent support (ACR-0443) was examined and accepted as part of the original outage scope. There are no upstream supports.

Support No. ACV-0472 is a variable spring hanger which supports a Chilled Water pump discharge line to Water Chiller A. No other supports similar in type, design and function were examined during Refuel 4. Therefore, 1 additional support was selected for examination in accordance with IWF-2430. Examination of this support (ACV-0451) revealed both spring cans binding against the insulation. However, engineering analysis determined that the condition would not affect the function of the support (see paragraph 4.3.2). Therefore, no further examinations were required.

4.5 Successive Examinations

- 4.5.1 There were no successive examinations performed per IWF-2420(b) on Class 3 items during Refuel 4.
- 4.5.2 Successive examinations will be performed on ACV-0472 which required corrective measures in accordance with the provisions of IWF-3000. This component support will be reexamined during the third inspection period as required by IWF-2420(b).

5.0 Supplemental/Augmented Examination Summary

5.1 Supplemental/Augmented Examination Completion Status 2nd Period, 4th Refueling

ITEM	TOTAL EXAMS SELECTED FOR INTERVAL	EXAMS COMPLETED FOURTH REFUELING	TOTAL EXAMS COMPLETED TO DATE	% EXAMS COMPLETED TO DATE	COMMENTS
C5.11 Sup	. 87	73	79	91	
C5.11 Aug	. 4	0	2	50	
C5.21 Aug	. 110	3	73	66	
C5,22 Aug		0	13	65	
Cat. 5 Au		0	2	50	

5.2 Supplemental/Augmented Items Examined 4th Refueling

CODE	CODE ITEM #		DRAWING	SIZE	MATERIAL	COMMENTS
C-F (AUGMENTE		51-002	2-4106	14" DIA.	SS	SEE NOTE 1
C-F C5.11 (SUPPLEMENTAL)		49-020	2-4104	14" DIA.	SS	
(SUPPLEME	MIAL)	49-029	2-4104	20" DIA.	SS	
		49-033	2-4104	20" DIA.	SS	
		49-039	2-4104	20° DIA.	SS	
		49-041	2-4104	20" DIA.	SS	
		50-023	2-4204	14" DIA.	SS	LIMITED EXAM
		50-040	2-4204	14" DIA.	SS	
		50-045	2-4204	14" DIA.	SS	
		50-048	2-4204	20" DIA.	SS	
		50-052	2-4204	20" DIA.	SS	
		51-005	2-4106	6" DIA.	SS	LIMITED EXAM
		51-033	2-4105	8" DIA.	SS	LIMITED EXAM
		51-036	2-4105	8" DIA.	SS	

5.2 Cont'd Supplemental/Augmented Items Examined 4th Refueling

CODE CODE CATEGORY ITEM #		DRAWING	SI	ZE	MATERIAL	сомм	ENTS
C-F C5.11	51-048	2-4105	14" 1	DIA.	SS		
(SUPPLEMENTAL)	51-052	2-4105	14" 1	DIA.	SS		
	52-005	2-4206	6" I	DIA.	SS	LIMITED	EXAM
	52-027	2-4205	8"	DIA.	SS	LIMITED	EXAM
	52-031	2-4205	8" 1	DIA.	SS		
	53-007	2-4109	8" 1	DIA.	SS		
	53-043	2-4109	10"	DIA.	SS		
	53-047	2-4109	10"	DIA.	SS		
	53-052	2-4109	10" 1	DIA.	SS		
	53-068	2-4109	10"	DIA.	SS		
	54-020	2-4209	8" 1	DIA.	SS		
	54-039	2-4209	10"	DIA.	SS		
	54-050	2-4209	10"	DIA.	SS		
	54-066	2-4209	10" !	DIA.	SS		
	55-018	2-4112	10"	DIA.	SS		
	55-019	2-4112	10"	DIA.	SS		
	55-023	2-4111	8"	DIA.	SS		
	55-054	2-4113	8"	DIA.	SS		
	55-063	2-4113	8"	DIA.	SS		
	56-021	2-4212	10"	DIA.	SS		
	56-025	2-4212	10"	DIA.	SS		
	56-030	2-4211	8"	DIA.	SS		
	56-035	2-4211	8"	DIA.	SS		
	56-064	2-4212	8"	DIA.	SS		

5.2 Cont'd Supplemental/Augmented Items Examined 4th Refueling

	ODE TEM #	WELD/ ITEM #	DRAWING		SIZE	MATERIAL	COMME	ENTS
C-F C		57-022	2-4110	10"	DIA.	SS		
(ourrenth)	PALL)	57-033	2-4109	10"	DIA.	SS		
		57-037	2-4109	5"	DIA.	SS		
		57-039	2-4109	6"	DIA.	SS		
		57-049	2-4109	10"	DIA.	SS		
		58-005	2-4210	10"	DIA.	SS		
		58-025	2-4210	10"	DIA.	SS		
		58-034	2-4209	6"	DIA.	SS		
		60-003	2-4116	4"	DIA.	SS		
		60-019	2-4116	4"	DIA.	98		
		60-025	2-4116	4"	DIA.	SS		
		60-026	2-4116	4"	DIA.	SS		
		60-070	2-4217	4"	DIA.	SS	LIMITED	EXAM
		60-072	2-4217	4"	DIA.	SS		
		50-074	2-4217	4"	DIA.	SS		
		60-080	2-4217	4"	DIA.	SS		
		60-089	2-4217	4"	DIA.	SS		
		60-098	2-4216	4"	DIA.	SS	LIMITED	EXAM
		60-100	2-4216	4"	DIA.	SS		
		60-109	2-4216	4"	DIA.	SS		
		60-115	2-4216	4"	DIA.	SS		
		60-117	2-4216	4"	DIA.	SS		
		60-131	2-4216	4"	L'IA.	SS	LIMITED	EXAM
		61-111	2-4213	10"	DIA.	SS		

5.2 Cont'd Supplemental/Augmented Items Examined 4th Refueling

CODE CATEGORY	CODE		DRAWING	SI	ZE	MATERIAL	CO	MMEN	TS
C-F (SUPPLEMEN		62-075	2-4208	14" 1	DIA.	SS			
1 2001 7 2020 2001		62-076	2-4208	14" [DIA.	SS			
		62-078	2-4208	14" 1	DIA.	SS	LIMIT	ED E	MAX
		62-088	2-4208	14" !	AID.	SS			
		62-089	2-4208	14" [AID.	SS	LIMIT	ED E	MAX
		62-094	2-4208	14" 1	DIA.	SS	LIMIT	ED E	XAM
		64-008	2-4110	10" (DIA.	SS			
		64-010	2-4110	10" [AIG.	SS			
		64-014	2-4110	10"	DIA.	SS			
		64-033	2-4110	10" 1	DIA.	SS			
		65-011	2-4210	10" 1	DIA.	SS			
		65-021	2-4210	10"	DIA.	SS			
C-F	C5.21	45-002	2-4102	18" 1	DIA.	CS			
(AUGMENTED)	51-012	2-4106	14"	DIA.	SS			
		51-013	2-4106	14"	DIA.	SS			
	5	1-014-900	2-4106	14"	DIA.	SS	SEE N	OTE	1
		55-040	2-4111	8"	DIA.	SS	SEE N	OTE	1
		55-042	2-4111	8"	DIA.	SS	SEE N	OTE	1
		55-043	2-4111	8"	DIA.	SS	SEE N		
		56-070	2-4212		DIA.	SS	SEE N		
		56-072	2-4212		DA.	SS	SEE N		
		56-073			DIA.		SEE N		
		30-073	2-4212	0	white.	55	one r	OIL	*

NOTE 1 These high alloy stainless steel welds were ultrasonically examined without a scan to detect transverse reflectors during Refuel 3. This scan has been performed on each of these welds during Refuel 4. Credit for these welds was taken during Refuel 3.

- 5.3 Abstract of conditions Noted and Corrective Actions Taken
 - 5.3.1 ISI examinations did not identify any conditions on Supplemental/Augmented items which exceeded the allowable standards in IWB-3000.
- 5.4 Additional Examinations
 - 5.4.1 Additional examinations were not required on Supplemental/Augmented items.
- 5.5 Successive Examinations
 - 5.5.1 There were no successive examinations performed per IWC-2420(b) on Supplemental/Augmented items during Refuel 4.
 - 5.5.2 There were no Supplemental/Augmented items which met the criteria of IWC-2420(b) during Refuel 4. Therefore, no successive examinations will be required in future refueling outages.

6.0 Pressure Testing Summary

As required by ASME Section XI (Code Category B-E, B-P, and C-H), and Section 2.2 and 3.2 of the Waterford 3 Ten Year Inservice Inspection Program, system pressure tests were performed during Refuel 4. No through-wall pressure boundary leakage was luentified. Other leakage (packing, gaskets, etc.) and boric acid residue was documented on Condition Identifications (CI's) for evaluation and/or corrective action.

6.1 Hydrostatic Testing

The following components/subsystems were hydrostatically tested during Refuel 4:

EDG Starting Air Al and A2 Receiver/Header (Pneumatic)

EDG Starting Air B1 and B2 Receiver/Header (Pneumatic)

EDG Fuel Oil Storage Tank to Feed Tank - 'A'

EDG Fuel Oil Storage Tank to Feed Tank - 'B'

Fuel Oil Feed Tank to EDG - 'A'

Fuel Oil Feed Tank to EDG - 'B'

Boric Acid Managemant/Chemical Volume Control Supply to Charging Pumps

Main Steam Supply Header to Turbine Driven EFW Pump Turbine

EFW Pump Suction Headers

EFW Pump Discharge Headers

Auxiliary Component Cooling Water Thru to CCW Heater Exchanger Outlet Isolation - 'A'

Auxiliary Component Cooling Water System Thru to CCW Heat Exchanger Outlet Isolation - 'B'

CCW Trains A and A/B

6.2 Normal Operating Pressure Testing

The Class 1 System Leakage Test which is required at start-up following each refueling outage was completed. The exam boundary included the Class 1 Reactor Coolant System with all valves in the normal position required for reactor start-up.

All forty-month examinations (Class 2 and 3) which are required to be performed during plant shutdown due to accessibility or system availability were completed during Refuel 3. No other forty-month examinations (Class 2 and 3) have yet been performed during this reporting period.

7.0 NIS-2 Forms

The following NIS-2 forms document the ASME Class 1 and 2 repair and replacement activities performed between 11/15/89 and 05/21/91:

NIS-2 No.	WA No.	CI No.	Description
91-001	01053699 01064060	267864 271039	Partial replacement CVC-192A
91-002	01043574 01046799	260916 265614	Partial replacement GVC-192AB
91-003	01046510 01046718	265503 265526	Replacement FP-602A & FP-602B
91-004	01077999	275736	Repair RC-303
91-005	01076825	275136	Partial replacement MS-119A
91-006	01073160	273058	Partial replacement MS-119B
91-007	01052806	267957	Partial replacement RC-303
91-008	01059071 01059078 01060383	269673 269680 270090	Replacement CVC-115
91-009	01056121	268643	Partial replacement CS-125A
91-010	01007431 01031747 01048696	252327 261138 266412	Partial replacement CVC pump 1A, CVC-126 & SI-107A
91-011	01058269	267714	Partial replacement SI-512B
91-012	01059571	267525	Partial replacement pressurizer heaters 72A2, 72A3, 73B1, 73B4, 76B1, 76B2, & 76B3
91-013	01072955	019051	Repair CVC-194AB
91-014	01076000 01076278	274885 274996	Replacement SI-108A & SI-108B
91-015	01050437	267222	Partial replacement CS-127A
91-016	01071658 01074741	018816 274421	Partial replacement SG no. 1
91-017	01071582 01071659 01075129	000297 018817 274633	Partial replacement SG no. 2

FOURTH REFUELING INSERVICE INSPECTION SUMMARY REPORT

7.0 NIS-2 Forms (cont.)

NIS-2 No.	WA No.	GI No.	Description
91-018	01061831	269570	Partial replacement SI-301
91-019	01049168	266769	Partial replacement HVSH-4028
91-020	01059064	269675	Partial replacement HVRR-4029
91-021	99000352	274482	Partial replacement MSRR-2
91-022	01054796 01056125	000947 268089	Replacement RC-317A
91-023	01054797 01064718	000948 271266	Replacement RC-317B
91-024	99000399 99000399	273474 273886	Repair RCP-2A
91-025	99003340 99003340	273702 273705	Repair RCP-1A, RCP-1B & RCP-2B
91-026	01076557	274685	Repair 2FW20-12A-6
91-027	99000404	273576	Repair 1RC2-50A/B-1

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

		rgy Operations Name			Date July 1.			
134	40 Echelon	Parkway, Jack Address	son. MS 39213		Sheet 1 of	_3		
Pla	ant <u>Wate</u>	rford Name		Manager 1	Unit 3			
Hw	wy. 18, P.	O. Box B. Kill Address	ona, IA 70066		WA 01053699 & Repair Organiza			No
		ed by <u>Entergy</u> Name . <u>Box B. Killo</u> Address			Type Code Symbo Authorization N Expiration Date	io	Not Applie	
Ide	entification	or of System	CVC (Chemica)	and Vo	olume Control)			
	Applicab				74 Edition, S7			
(b)	W81 Adde							HILOURI
(b)	W81 Adde	nda on of Componen	ts Repaired or	Replace Na- tional	ed and Replacem	nent Co	Repaired, Replaced, or	ASME Code Stampe (Yes
(b) Ide	Applicab W81 Adder entification	nda on of Componen Name of	ts Repaired or	Na- tional Board	ced and Replacem	nent Co	Repaired, Replaced, or	ASME Code Stampe (Yes
(b) Ide	Applicab W81 Adder	nda on of Componen Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)
(b) Ide	Applicab W81 Adder	nda on of Componen Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)
(b) Ide	Applicab W81 Adder	nda on of Componen Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)
(b) Ide	Applicab W81 Adder entification ame of apponent C-192A	nda on of Componen Name of Manufacturer	Manufacturer Serial No. N60643- 00-0001	Na- tional Board No.	Other Identification Valve 2CH-R1526A	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)

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

FORM NIS-2 (Back)

	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this
	replacement conforms to the rules of the ASME Code, Section XI.
Type Code :	Symbol Stamp None
	Or Authorization No. Not Applicable Expiration Date Not Applical During Maintenance Engineer Date July 1, 19
	CERTIFICATE OF INSERVICE INSPECTION
Boiler and and employ inspected November 1 and belief	ersigned, holding a valid commission issued by the National Board of Pressure Vessel Inspectors and the State or Providence of Louisiana ed by Awkwright Mutual Insurance Co.* of Norwood, MA have the components described in this Owner's Report during the period 989 to May 1991 , and state that to the best of my knowledge, the Owner has performed examinations and taken corrective measures in this Owner's Report in accordance with the requirements of the ASME ion XI.
	this certificate neither the inspector nor his employer makes any expressed or implied, concerning the examinations and corrective measures in this Owner's Report. Futhermore, neither the Inspector nor his
warranty, described mployer s	hall be liable in any manner for any personal injury or property damage of any kind arising from or connected with this inspection.

* Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

During operation of positive displacement Charging Pump 1A in the Chemical and Volume Control (CVC) system, the discharge relief valve, CVC-192A, is subject to constant pressure pulses from the pump. The valve is close to the discharge to the pump causing the disc insert to develop leaks over time.

Valve CVC-192A developed a seat leak. Under WA 01053699, the valve was disassembled and inspected. The disc insets was replaced. The valve relief pressure was set and tested satisfactorily.

Saveral months later, valve CVC-192A again developed a seat leak. Under WA 01064060, the valve was disassembled and inspected. The disc insert was replaced. The valve relief pressure was set and tested satisfactorily.

Upon return to service, the replacements were examined using the VT-2 method. The results were acceptable.

The certifications for the replacement disc inserts are filed in the following record:

P.O. W-11796 MRIR 9780-87

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

	tergy Operations.	Inc	94.3	Date July 1.	1991		
1340 Echel	on Parkway, Jacks Address	on, MS 39213	-	Sheet 1 of	_3		
Plant Wa	aterford Name			Unit 3			
Hwy. 18,	P.O. Box B. Kills Address	ona, LA 70066		WA 01043574 & Repair Organiza			No
	ormed by Entergy (Name P.O. Box B. Killo			Type Code Symbo Authorization N Expiration Date	0	Not Applic	able
Identifica	ation of System	CVC (Chemical	and Vo	lume Control)			
(b) Applic	cable Constructio cable Edition of ddenda						
Identifica	ation of Componen	ts Repaired or	Replac	ed and Replacem	ent Co	mponents	
	Name of	Manufacturer Serial No.	Na- tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)
Name of Component	Manufacturer			A STATE OF THE PARTY OF THE PAR	-		
		N60643 - 00 - 0002	NA	Valve 2CH-R1527A/B	1978	Partial Replacement	No
Component			NA		1978	The second secon	No
Component			NA		1978	The second secon	No
Component			NA		1978	The second secon	No
Component CVC-192AB	Crosby	00-0002		2CH-R1527A/B	1978	The second secon	No
Component CVC-192AB	Crosby ption of Work S	ee Attachment	1 (1 Pa	2CH-R1527A/B		Replacement	
Component CVC-192AB	otion of Work S	ee Attachment	l (1 Pa	2CH-R1527A/B	al Ope	Replacement	sure 🕻

FORM NIS-2 (Back)

	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this eplacement conforms to the rules of the ASME Code, Section XI.
	or replacement
Type Co	de Symbol Stamp <u>None</u>
Certifi	DugttM Hilley Maintenance Engineer Date July 1, 1991

CERTIFICATE OF INSERVICE INSPECTION

I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of Louisiana and employed by Awkwright Mutual Insurance Co.* of Norwood, MA have inspected the components described in this Owner's Report during the period November 1989 to May 1991 , 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 this Owner's Report. Futhermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

A Commissions 7822 N B I S IS National Board and Endorsements

Date July 1, 1991

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

During operation of positive displacement Charging Pump IAB in the Chemical and Volume Control (CVC) system, the discharge relief valve, CVC-19ZAB, is subject to constant pressure pulses from the pump. The valve is close to the discharge to the pump causing the disc insert to develop leaks over time.

Valve CVC-192AB develops a seat leak. Under WA 01043574, the valve was disassembled and inspected. The disc insert, pring and spring washers were replaced. The valve relief pressure was set and tested satisfactorily.

Several months later, valve CVC-192AB again developed a seat leak. Under WA 01046799, the valve was disassembled and inspected. The disc insert and spindle were replaced. The valve relief pressure was set and tested satisfactorily.

Upon return to service, the replacements were examined using the VT-2 method. The results were acceptable.

The certifications for the replacements are filed in the following records:

P.O. L-97725 MRIR 8336-87 W-10570 MRIR 8715-87 W-11796 MRIR 9780-87 WP029054 MIR M08111

FORM NIS-2 CWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section AI

1340 Ech	elon Parkway, Jac Address	kson, MS 39211	-	Sheet 1 of	_11		
Plant	Vaterford Name			Unit 3			
Нуу. 18	P.O. Box B. Kill Address	lona, LA 70066		WA 01046510 & Repair Organiza			No
	formed by Entergy Name P.O. Box B. Kill Address			Type Code Symbo Authorization N Expiration Date	lo	Not Applic	
Identifi	cation of System	FP (Fire Pro	tection				
fet Anni	bankla danarmari			7 7 34 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CO PERMIT	DINER THE WORLD	C (0.2) (0.
(b) Appl W81	icable Constructi icable Edition of Adderda cation of Compone	Section XI Ut	ilized	for Repairs or F	leplace	ements 198 <u>0 (</u>	hrough
(b) Appl W81	icable Edition of Adderida	Section XI Ut	Replace Na-	for Repairs or F	eplace ment Co Year	ments 198 <u>0</u> tomponents Repaired, Replaced, or	ASME Code Stampe (Yes
(b) Appl W81 Identifi	icable Edition of Adderida	Section XI Ut	Replace Na-	for Repairs or F	eplace ment Co Year	ments 198 <u>0</u> tomponents Repaired, Replaced, or	ASME Code Stampe (Yes
(b) Appl W81 Identifi Name of Componen	Cable Edition of Adderda	Manufacturer Serial No.	Na- tional Board	or Repairs or Formal Control of Repairs or Formal Control of Replacement of Replacement of Repairs or Formal Control of Repairs	eplace nent Co Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)
(b) Appl W81 Identifi Name of Componen FP-602A	C&S Valve	Manufacturer Serial No. 87-5000- 01(N)01 89-0903-	Na- tional Board No.	Other Identification Valve 2FP-V129 Valve	Year Built	Repaired, Replaced, or Replacement Replaced	ASME Code Stampe (Yes or No)

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

FORM NIS-2 (Back)

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this	
replacement conforms to the rules of the ASME Code, Section XI.	
Type Code Symbol Stamp None	
Signed Dugtt Zilley . Maintenance Engineer Date July 1	
CERTIFICATE OF INSERVICE INSPECTION	-
I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of Louisiana and employed by Awkwright Mutual Insurance Co.* of Norwood, KA have inspected the components described in this Owner's Report during the period November 1989 to May 1991 , and state that to the best of my knowled and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASM Code, Section XI.	dge
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective meas described in this Owner's Report. Futhermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property dama	
or a loss of any kine arising from or connected with this inspection. Commissions 7822 N B I S IS Inspector Fignature National Board and Endors	ements

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

The as-found local leak rate test (LLRT) results for the fire protection header inside containment check valves. FP-602A and FP-602B, were unacceptable. New valves were previously procured as replacements for these valves. The replacement valves were installed. A design change for alternate valves is in development for implementation in a future outage.

The replacement valves were local leak rate tested and found acceptable.

Copies of the Code Data Reports for the original and replacement valves are presented in Attachment 2. The certifications for the replacement valves are filed in the following record:

P.O. WP028857

MIR M05877

Attachment 2 Code Data Reports (Page 1 of 8)

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES' As Required by the Provisions of the ASME Code. Section III. Div. 1

SEV. ORIGE AIT (Fine Protection System) Bend description of service for which equipment was designed. Design Conditions Des	a) Moder No. (b) N Certificate Holder's (c) Canadian Series No. Series No. No. No. No. (e) Class &d. No. Built (c) Year No. No. No. (e) Class &d. No. Built (c) Year No. (e) Class &d. No. Surial (c) Year No. (e) Class &d. No. No. (e) Class &d. No. No. (e) Class &d. No. (e) Cla	Series No. Series Registration Idl Drawing In Nat'l Ig or Type No. No. No. No. No. Iel Class Sc. No.	Series No. (b) N Certificate Series No. Series or Type No. Check 37-5000-0 The Control of the Certificate Series No. Check 37-5000-0 The Control of the Certificate Series No. Check 37-5000-0 The Control of the Certificate Series No.	icate Molder's Ici Canad Prisi Registret No. No. 100–01(N)01 N/A 100 System) Sher observation of servets per 100°	action (d) Orewing No. A 87-5000-01() SEV. ORVS.	N) 2	ed No. Built
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^{*} Supplemental sheets in form of lists, saletches or drawing; may be used provided (1) size is 8-1/2" x 11". (2) information in items 1, 2 and 5 on this Date Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Attachment 2 Code Data Reports (Page 2 of 8)

	FORM N	PV-1 (Back)	
Werk No.	Marerial Spec No.	Manufacturer	Remarks
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308	SA 479 - 410	Jongensen	Hince Pin Retainers Stop Pin Retainers
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Attachment 2 Code Data Reports (Page 3 of 8)

FORM NEV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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^{*} Suppremontal phases in form of Hets, elements or drawings may be used provided (1) size is \$-1.2" x 11", (2) information in name 1, 2 and 5 on this Data Region is included on each short, and (3) each short is numbered and number of shorts is reported at tag of this form.

Attachment 2 Code Data Reports (Page 4 of 8)

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Attachment 2 Code Data Reports (Page 5 of 8)

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Attachment 2 Code Data Reports (Page 7 of 8)

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES. As Required by the Provisions of the ASME Code. Section III. Div. 1

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⁽¹⁾ For manually operated valves only.

^{*} Suppliermental sheats in form of lists, sketches or drawings may be used provided (1) size is \$-1/2" x 11". (2) information in items 1, 2 and 5 on this Date Report is included on each sheet, and (2) each sheet is numbered and number of sheets is reported at top of this form.

Attachment 2 Code Data Reports (Page 8 of 8)

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

1.	Owner _ Ent	ergy Operations Name	. Inc.		Date July 1.	1991		
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NOTZ: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is $8\ 1/2$ in. X 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks	None
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this
	epair conforms to the rules of the ASME Code, Section XI, r replacement
Type Code	Symbol Stamp None
Certifica Signedc	Le of Authorization No. Not Applicable Expiration Date Not Applicable DuffM Filley Maintenance Engineer Date July 1, 1991
	CERTIFICATE OF INSERVICE INSPECTION
Boiler an and emplo inspected	dersigned, holding a valid commission issued by the National Board of d Pressure Vessel Inspectors and the State or Providence of Louisiana yed by Awkwright Mutual Insurance Co.* of Norwood, MA have the components described in this Owner's Report during the period 1989 to May 1991, 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 this Owner's Report. Futhermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind wising from or connected with this inspection.

> Commissions

7822 N B I S IS National Board and Endorsements

Date July 1, 1991

nspector

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

During Refuel 4, the pressure seal gasket on the pressurizer spray line check valve. RC-303, was replaced. The bonnet leaked when the system was pressurized. Subsequently, the system was drained, and the valve was disassembled.

It was discovered that the upper retaining ring had slid down and that the bonnet was actually pressed against the retaining ring. The pressure seal gasket was not compressed. The edge of the retaining ring was upset. The upset metal was removed, and the inner edge was filed to allow the bonnet to pass through the retaining rings.

The filed area on the retaining rings was examined using the dye penetrant method and found acceptable.

Upon return to service, the valve was examined at normal operating pressure using the VT-2 method. The results were acceptable.

The certifications for the replacement disc inserts are filed in the following record:

P.O. W-11796 MRIR 9780-87

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR LEPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Hwy. 18, P Work Perfor Hwy. 18, P Identificat (a) Applica (b) Applica W81 Add	Name O. Box B. Kill Address med by Entergy. Name O. Box B. Killo Address ion of System ble Construction ble Edition of enda.	Operations, Inches on a. LA 7006 MS (Main Steem Code Sec 11 Section XI Ut	6 aml INC 1 ilized	Sheet of Unit3 WA 01076825, CI Repair Organiza Type Code Symbological Sy	2751: ition I ol Stan lo	P.O. No., John None Not Applic Not Applic	cable cable
Hwy. 18. P Work Perfor Hwy. 18. P. Identificat (a) Applica (b) Applica W81 Add	Name O. Box B. Kill Address med by Entergy. Name O. Box B. Killo Address ion of System ble Construction ble Edition of enda.	Operations, Inches on A. LA 7006 MS (Main Steem Code Sec II Section XI Ut	am) ING 1 ilized	WA 01076825, CI Repair Organiza Type Code Symbo Authorization M Expiration Date	Stando.	P.O. No., John None Not Applic Not Applic	cable cable
Work Perfor Hwy 18, P. Identificat (a) Applica (b) Applica W81 Add	Address med by Entergy. Name O. Box B. Killo Address ion of System ble Construction ble Edition of enda	Operations, Inches on A. LA 7006 MS (Main Steem Code Sec II Section XI Ut	am) ING 1 ilized	Repair Organiza Type Code Symbo Authorization N Expiration Date	Stando.	P.O. No., John None Not Applic Not Applic	cable cable
Hwy 18, P Identificat (a) Applica (b) Applica W81 Add	Name O. Box B. Kills Address ion of System ble Construction ble Edition of enda	MS (Main Steem Code Sec II Section XI Ut	aml ING 1 ilized	Authorization N Expiration Date	73 Adde	Not Applic Not Applic	cable Case
(a) Applica (b) Applica W81 Add	ble Construction ble Edition of enda	on Code <u>Sec II</u> Section XI Ut	I NG 1 ilized	for Repairs or F	Replace	enda, <u>NA</u> Code ements 198 <u>0</u>	Case
(b) Applica W81 Add	ble Edition of enda	Section XI Ut	ilized:	for Repairs or F	Replace	enda, <u>NA</u> Code ements 198 <u>0</u>	Case hrough
Name of Component	Name of Manufacturer	Manufacturar Serial No.	Na- tional Board No.		Year	Repaired, Replaced, or	ASME Code Stampe (Yes or No)
MS-119A	Velan	58-1	NA	Valve 2MS-V671	1976	Partial Replacement	No
					lane.		

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

FORM NIS-2 (Back)

	e Attachment 2 (2 Pages) for Code Data Reports
	CERTIFICATE OF COMPLIANCE
We c	ertify that the statements made in the report are correct and this
replace repair or rep	ment conforms to the rules of the ASME Code, Section XI.
Type Code Symb	ol Stamp None
Certificate of Signed Aug	Authorization No. Not Applicable Expiration Date Not Applicable M. Hilley , Maintenance Engineer Date July 1, 1991
	CERTIFICATE OF INSERVICE INSPECTION
Boiler and Pre and employed b inspected the November 1989 and belief, th	gned, holding a valid commission issued by the National Board of source Vessel Inspectors and the State or Providence of Louisiana by Awkwright Mutual Insurance Co.* of Norwood, MA have components described in this Owner's Report during the period to May 1991, and state that to the best of my knowledge owner has performed examinations and taken corrective measures his Owner's Report in accordance with the requirements of the ASME XI.
warranty, expr described in t employer shall	s certificate neither the inspector nor his employer makes any essed or implied, concerning the examinations and corrective measures his Owner's Report. Futhermore, neither the Inspector nor his be lable in any manner for any personal injury or property damage my land arising from or connected with this inspection.
Married F.	Commissions 7822 N B I S IS
19 ms	Ector Signature National Board and Endorsements

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

The main stear isolation valve start-up upstream drain valve no. 1, MS-119A, was disassembled and inspected due to overthrusting discovered during motor operated valve testing. Inspection of the disassembled components revealed a damaged back seat on the valve stem and improper disc contact.

The stem and disc were replaced with spares from stores. The serial number for the replacement disc is 376-3. A copy of the Code Data Report for the replacement disc is presented in Attachment 2.

No pressure retaining welds were performed.

The valve was operationally tested in accordance with the Inservice Test Plan. A pressure test was performed at normal operating pressure. The VT-2 examination results were satisfactory.

The certifications for the replacement stem and disc are filed in the following records:

WP033597 MRIR 4572-91 WP040224 MIR M09924

Attachment 2 Code Data Report (Page 1 of 2)

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

Not to Exceed One Day's Production Pg. 1 of -1 Manufactured and certified by VELAN INC. 2125 WARD AVE QUEBEC ENTERBY OPERATIONS INC C LOUISIANA 70066 U S.A WATERFORD #3 NUCLEAR TAFF AMS - 5387 P1-4560. N-1 5 ASME Code, Section III. Division 1 .. Come Case no N/A Asvision ... 6. Febricated in accordance with Const. Spec. (Div. 2 only) ... * MEETS ASME SECTION I EDITION: 1986 ADDENDA NONE 2" DISCS FOR WO8-2074X-02TH FOR PI-76343-NSP TRACE CODES: V8308 & V8221 8. Num thickness (in.) N/A Min design thickness (in.) N/A Dis. ID (ft & in.) N/A Length overall (ft & in.) 9. When applicable. Certificate Holders: Data Reports are attached for each item of this report:

Part of Appurteriance Serial Number	National Board No. in Numerical Order	Pert of Appurtenence Senal Number	National Board No in Numerical Order
376-1			
2 24 /		(26)	
31 376 - 3		(28)	
4) 376 - 4		(29)	And the second s
(5)		(30)	
6)		(31)	
171		(32)	
(8)		(33)	
(9)		(34)	-
101		(35)	
111		(36)	A CONTRACTOR OF THE PARTY OF TH
12)		(37)	-
13)		(38)	-
141		(39)	
15)		(40)	
16)		(41)	
17)		(42)	
181		(43)	
191		(44)	
20)		(45)	
21)		(46)	
22)		(47)	
23)		(48)	
241		(49)	
25)		(50)	

[&]quot;Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is \$% × 11, (2) information in items 2 and 3 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Attachment 2 Code Data Report (Page 2 of 2)

FORM N-2 (Back - Pg. 2 of _2_1

When applicable		Certificate H	older's Serial Nos	. 376 -1 through 376 - 4
Design report * certified by		CERTIFICATION OF C	ESIGN	
CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this lithuse! Conforms to the rules of construction of the ASME Code, Section III, Division 1. NPT Certificate of Authorization No	Design specifications certified by			PE State CONN. Reg no /2452
We certify that the statements made in this report are correct and that this lithese conforms to the rules of construction of the ASME Code. Section III, Division 1. NPT Certificate of Authorization No N - 2 798-1 Expires MAY 2 1992 Date MAY 6, 1991 Name VELAN INC. INPT Certificate Holder: Signed Expression (authorize representative) CERTIFICATE OF INSPECTION Intermediate the state of Province and employed by Associated these items described in this Data Report on Province and state that to the state of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code. Section III, Division 1. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage.	Design report * certified by			PE State N/A Reg no N/A
We certify that the statements made in this report are correct and that this lithesel conforms to the rules of construction of the ASME Code, Section III, Division 1. NPT Certificate of Authorization No N = 2.798 = 1 Expires MAY 2, 1992. Date MAY 6, 1991 Name VELAN INC. INPT Certificate Holder: Signed Signed Signed Support Representative: CERTIFICATE OF INSPECTION In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province and employed by Associated these items described in this Data Report on Associated with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage.		CERTIFICATE OF COM	PLIANCE	
Date MAY 6, 1991 Name VELAN INC. INPT Certificate Holder: CERTIFICATE OF INSPECTION In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province and employed by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province and employed by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province the National Board of Boiler and Pressure Vessel Inspectors and the State or Province and employed by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province the National State of Province and employed by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province the National Board of Boiler and Pressure Vessel Inspectors and the State or Province the State or Province the State or Province the Inspector of the National Board of Boiler and Pressure Vessel Inspectors and the State or Province the Inspector of the National Board of Boiler and Pressure Vessel Inspectors and the State or Province the Inspector of the National Board of Boiler and Pressure Vessel Inspectors and the State or Province the Inspector of the National Board of Boiler and Pressure Vessel Inspectors and the State or Province the Inspector of the State of Boiler and Pressure Vessel Inspectors and the State or Province the Inspector of Inspector of Boiler and Pressure Vessel Inspectors and the State or Province the Inspector of Inspector of Boiler and Pressure Vessel Inspectors and the State or Province the Inspector of Inspector o			. 2"	Disc
CERTIFICATE OF INSPECTION In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province and employed by heve inspected these items described in this Data Report on the State of Province heart of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section 1. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage.	NPT Certificate of Authorization No	N-2798-1	Expires 1	MAY 2, 1992
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province and employed by	Date MAY 6, 1991 Name	VELAN INC .	Signed	Millian (authorised representative)
heve inspected these items described in this Data Report on		CERTIFICATE OF INSI	PECTION	
Date 91-25-6 Signed Follow - 16 January Commissions	and employed of have inspected best of my knowledge and belief, the Certific Division 1. Each part listed has been a By signing this certificate, neither the insign this Data Report. Furthermore, neither loss of any kind arising from or connected	cted these items described in this Data tificate Holder has fabricated these pa uthorized for stamping on the date sho pector nor his employer makes any wa the inspector nor his employer shall be I with this inspection.	rts or appurtenar wn above.	and state that to notes in accordance with the ASME Code. Sector of or implied, concerning the equipment described.

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

		ergy Operations Name			Date July 1.			
	1340 Echelor	n Parkway, Jack Address	son, MS 39213		Sheet 1 of	5		
	Plant Wate	erford Name			Unit 3			
	Hwy. 18. P.	O. Box B. Kill Address	ena, LA 70066	Same	WA 01073160, CI Repair Organiza			No
		Name D. Box B. Killo Address			Type Code Symbo Authorization N Expiration Date	lo	Not Applic	
	Identificat	ion of System	MS (Main Stee	am)				No State Agency of
	(b) Applicat	ble Edition of enda	Section XI Ut:	ilized	9 <u>71</u> Edition, <u>W7</u> for Repairs or F	leplace	ements 198 <u>0 t</u>	
40000				Na-				ASME
	Name of Component	Name of Manufacturer	Manufacturer Serial No.		Other Identification	Year Built	or	Code Stampe (Yes
				Board			Replaced, or	Code Stampe (Yes
	Component	Manufacturer	Serial No.	Board No.	Identification Valve	Built	Replaced, or Replacement Partial	Code Stamped (Yes or No)
	Component	Manufacturer	Serial No.	Board No.	Identification Valve	Built	Replaced, or Replacement Partial	Code Stampe (Yes or No)

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

	CERTIFICATE OF COMPLIANCE
We	certify that the statements made in the report are correct and this
	ement conforms to the rules of the ASME Code, Section XI.
Type Code Syn	mbol Stamp None
and the same of th	Authorization No. Not Applicable Expiration Date Not Applicable Maintenance Engineer Date July 1, 199
	CERTIFICATE OF INSERVICE INSPECTION
Boiler and P and employed inspected th November 198 and belief.	signed, holding a valid commission issued by the National Board of ressure Vessel Inspectors and the State or Providence of Louisiana by Awkwright Mutual Insurance Co.* of Norwood, MA liave components described in this Owner's Report during the period to May 1991, and state that to the best of my knowledge the Owner has performed examinations and taken corrective measures this Owner's Report in accordance with the requirements of the ASME
Boiler and P and employed inspected th November 198 and belief, described in Code, Section By signing to warranty, ex described in employer sha	signed, holding a valid commission issued by the National Board of ressure Vessel Inspectors and the State or Providence of Louisiana by Awkwright Mutual Insurance Co.* of Norwood, MA liave components described in this Owner's Report during the period to May 1991, and state that to the best of my knowledge the Owner has performed examinations and taken corrective measures this Owner's Report in accordance with the requirements of the ASME

^{*} Factory Mutual System

Attachment 1 Description of Work (Fage 1 of 1)

The main steam isolation valve start-up upstream drain valve no. 2, MS-119B, was disassembled and inspected due to overthrusting discovered during motor operated valve testing. Inspection of the disassembled components revealed a damaged back seat on the valve stem and improper disc contact.

The stem and disc were replaced with spares from stores. The serial number for the replacement disc is 376-1. A copy of the Code Data Report for the replacement disc is presented in Attachment 2.

No pressure retaining welds were performed.

The valve was operationally tested in accordance with the Inservice Test Plan. A pressure test was performed at normal operating pressure. The VT-2 examination results were satisfactory.

The certifications for the replacement stem and disc are filed in the following records:

L-48866 MRIR 0546-85 WF040224 MIR M09924

Attachment 2 Code Data Report (Page 1 of 2)

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III

Not to Exceed One Day's Production Pg. 1 of # RA AVE , QUEBEC CANADA 2/25 WARD Manufactured and certified by VELAN INC. ENTERGY OPERATIONS INC Come and address of Purchase 70066 WATERFORD #3 NUCLEAR TAFF LOUISIANA AMS - 5387 1991 N/A 1971 WINTER 1973 N/A 5. ASME Code, Section III. Division 1: .. Child Case to Fabricated in accordance with Const. Spec. (Div. 2 only) ... EDITION: 1986 * MEETS ASME SECTION I ADDENDA NONE WO8- 2074x - DATH FOR PI-76343-NSP TRACE CODES: V8308 & V8221 Nom Inickness (in) N/A Min design thickness (in) N/A Die ID (ft & in) N/A Length overall (ft & in) When applicable. Certificate Holders: Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National No. In No. Is load Order	Part or Appurtenence Sensi Number	National Board No. in Numerical Order
376 -1		(26)	
376 - 2		(27)	
376-3		(28)	
4 376 - 4		(29)	Account of the Control of the Contro
5)		(30)	
61		(31)	A MARKET STREET, STREE
		(32)	
(8)		(33)	
91		(34)	
10)		(35)	
111		(36)	
12)		(37)	
(3)		(38)	
4		(39)	
15)		(40)	
16)		(41)	
171		(42)	
		(43)	
19)		(44)	A STATE OF THE PARTY OF THE PAR
20)		(45)	A SECURE AND ADDRESS OF THE PARTY OF THE PAR
21)		(46)	
		(47)	
22)		(48)	
231		(49)	
241		(50)	
251	THE RESERVE OF THE PARTY OF THE	1 727	

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Attachment 2 Code Data Report (Page 2 of 2)

FORM N-2 (Back - Pg. 2 of _2_)

	Certificate H	older's Seriel Nos. 376 - 1 through 376 - 4
	CERTIFICATION OF C	PESIGN
Design specifications certified by	J. RUGIERI	P.E. Stere CONN. Reg. no. /4458
Design report * certified by	W/A	P.E. State N/A Reg no N/A
	CERTIFICATE OF COM	PLIANCE
We certify that the statements made in the		2" Disc
NPT Certificate of Authorization No.	N-2798-1	Expires MAY 2, 1992
Dete MAY 6, 1991 Name	VELAN INC .	Signed Will entrensed representatives
	CERTIFICATE OF INSI	PECTION
best of my knowledge and belief, the Cer III. Division 1. Each part listed has been a By signing this cartificate, neither the ins	rected these items described in this Data difficultie Holder has fabricated these parauthorized for stamping on the date sho pector nor his employer makes any was the inspector nor his employer shall be d with this inspection.	irts or appurtenances in accordance with the Name Code. Secti

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

1.	Owner _Ente	ergy Operations Name	Inc		Date July 1.	1991		et fil Newton (Spillers) (F
	1340 Echelor	Parkway, Jack Address	son, MS 3921)		Sheet 1 of	3		
2.	Plant <u>Kate</u>	rford Name			Unit 3			
	Hwy 18 P.	O. Box B. Kill Address	ona. LA 70066		WA 01052806, CI Repair Organiza			No
		Name Box B. Kille Address			Type Code Symbo Authorization N Expiration Date	0.	Not Applic	
4.	Identificati	on of System	RC (Reactor (Coolant)				-
0	(b) Applicab W81 Adde	le Edition of	Section XI Ut:	ilized i	71 Edition, W7 for Repairs or F	teplace	ements 198 <u>0 1</u>	hrough
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
	RC-303	Anchor Darling	1N350	NA	Valve 1RC-V2516	1978	Partial Replacement	No
7	Descriptio	n of Work <u>Se</u>	e Attachment	1 (1 Pa	ge)			
8	Tests Cond	ucted: Hydro Other	static D D Pressur	Pneuma re2	tic Norm	al Ope Test	rating Press Temp.	ure F
(1) size is 8	1/2 in. X 11 i	n., (2) inform	mation :	tches, or drawing in items 1 through the state of the sta	ugh 6	on this repo	rt is

recorded at the top of this form.

AND DESCRIPTION OF THE PARTY OF	
	CERTIFICATE OF COMPLIANCE
We certify t	hat the statements made in the report are correct and this
replacement repair or replacement	conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp	None
signed Dught MB	Filley . Maintenance Engineer Date July 1, 199
	CERTIFICATE OF INSERVICE INSPECTION
Soiler and Pressure Ve and employed by <u>Awkwr</u> nspected the componen lovember 1989 to and belief, the Owner	olding a valid commission issued by the National Board of essel inspectors and the State or Providence of Louisiana right Mutual Insurance Co.* of Norwood, MA have have described in this Owner's Report during the period May 1991 , and state that to the best of my knowledge has performed examinations and taken corrective measures er's Report in accordance with the requirements of the ASME
	ficate neither the inspector nor his employer makes any implied, concerning the examinations and corrective measures er's Report. Futhermore, neither the Inspector nor his ble in any manner for any personal injury or property damage
mployer shall be liab	arising from or connected with this inspection. Commissions 7822 N B I S IS

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

During plant operation, the pressurizer spray line check valve, RC-303, developed a leak at the hinge pin cover gaskets. The hinge pin cover studs were retorqued but the leak was not stopped. The hinge pin covers were disassembled. To enhance seating of the pressure seal gaskets, the studs and nuts were replaced with a higher strength material per SPEER 90-533.

Upon return to service, the valve was examined for leakage at normal operating pressure. The VT-2 examination results were acceptable.

The certifications for the replacement materials are filed in the following records:

PO W-12710 W-14630 MRIR 0269-87 (studs) MIR M05612 (nuts)

FORK NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

OwnerEnt	ergy Operations Name	. Inc.		Date July 1.			
1340 Echelo	n Parkway, Jack Address	son, MS 39211		Sheet 1 of	9		
Plant <u>Wat</u>	erford Name		-	Unit 3			
Hwy. 18, P	O. Box B. Kill Address	ona, IA 70066		WA 01059071, WA Repair Organiza			CONTRACTOR OF THE PARTY.
	Name			Type Code Symbo Authorization N Expiration Date	lo	Not Applic	
нму. 18. Р.	O. Box B. Killo Address	na La 7006					
Identificat	ion of System	CVC (Chemica)	and Vo	olume Control Sy	stem)		
The second secon	A.C. PARALLE P						
W81 Add	ior, of Componen	ts Repaired or	Replace National	ced and Replacen	nent Co	Repaired, Replaced,	ASME Code Stamped
W81 Add	lenda		Replace National		nent Co	Repaired, Replaced,	ASME Code Stamped
W81 Add Identificat	ior, of Componen	ts Repaired or	Na tional Board	ced and Replacen	nent Co	Repaired, Replaced,	ASME Code Stamped
W81 Add Identificat Name of Component	Name of Manufacturer	Manufacturer Serial No.	Na tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
W81 Add Identificat Name of Component CVC-115	Name of Manufacturer	Manufacturer Serial No. N59356- 00-0001	Na tional Board No.	Other Identification Valve 2CH-R626A/B	Year Built	Repaired, Replaced, or Replacement Replaced	ASME Code Stampe (Yes or No) Yes
W81 Add Identificat Name of Component CVC-115	Name of Manufacturer Crosby Crosby	Manufacturer Serial No. N59356- 00-0001 N59356- 00-0002 N59356-	Na tional Board No.	Other Identification Valve 2CH-R626A/B Valve 2CH-R626A/B	Year Built 1978	Repaired, Replaced, or Replacement Replaced	ASME Code Stampe (Yes or No) Yes
Name of Component CVC-115 CVC-115 CVC-115	Name of Manufacturer Crosby Crosby	Manufacturer Serial No. N59356- 00-0001 N59356- 00-0002 N59356- 00-0002	Na tional Board No. NA	Other Identification Valve 2CH-R626A/B Valve 2CH-R626A/B Valve 2CH-R626A/B Valve 2CH-R626A/B	Year Built 1978	Repaired, Replaced, or Replacement Replacement Replacement	ASME Code Stampe (Yes or No) Yes

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

FORM NIS-2 (Back)

Remarks See Attachment 2 (6 Pages) for Code Data Reports.
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this
replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp None
Signed Duty Maintenance Engineer Date July 1, 199
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of Louisiana and employed by Awkwright Mutual Insurance Co.* of Norwood, MA have inspected the components described in this Owner's Report during the period November 1989 to May 1991, 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 this Owner's Report. Futhermore, neither the Inspector nor his employer shall be 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 7822 N B I S IS National Board and Endorsement
DateJuly 1, 1991_

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

During plant operation, the letdown heat exchanger inlet bypass line relief valve, CVC-115, started lifting at system pressure of 450 psig. The valve lift pressure had drifted down from 600 psig.

Under WA 01059078 CI 269680, a replacement valve assembly was fabricated and tested. Short inlet and outlet piping sections and flanges were welded to a spare value to produce the replacement assembly. The spare valve was disassembled. The spindle sub-assembly was damaged and was replaced with a spare sub-assembly with serial no. K57232-01-0075.

The welds were examined using the visual and dye penetrant methods and found acceptable. The assembly was hydrostatically tested. The visual examination VT-2 results were acceptable. A leak developed at the nozzle to body joint during the hydrostatic test. The leak was contributed to pressure at the joint being higher than operating pressure during the hydrostatic test.

Under WA 01059071 CI 269673, the spare valve assembly was installed. Upon return to operating pressure, the valve was visually examined. The VT-2 examination results were unsatisfactory. The valve leaked at the inlet flange gasket and at the nozzle to body joint.

Under WA 01059630 CI 269859, the original valve was bench tested. The lift pressure test and seat leakage tests were performed with acceptable results.

Under WA 01060383 CI 270090, the original valve was reinstalled. The valve was visually examined at operating pressure. The VT-2 examination results were acceptable.

A copy of the Code Data Reports for the original valve, spare valve and the replacement spindle sub-assembly are presented in Attachment 2.

The certifications for the replacements are filed in the following records:

PO	L-13295	MRIR 6290-81	
	L-46359	MRIR 5965-84	
	WP014732	MIR M03014	
	WP033387	MIR M08677	
	W.P3 - 7635	MRIR 82-00926	(TR-5774, MRIR 9509-87)



DOC. PR. 12/9/2

	V-1 FOR SAFETY AND SAFET	
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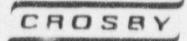
Attachment 2 Code Data Reports (Page 2 of 6)

DOC. P.P. 12/9/2

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Attachment 2 Code Data Reports (Page 3 of 6)



CROSGY VALVE & GAGE COMPANY

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules

9 C - HC-1

DATA REPORT Safety and Safety Relief Valves

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Spring Washers	N91025-89-2526 N91025-87-2463	ASME 5A479 Type 410
Adjusting Bolt	N88753-19-9181	ASME SALVI Gr. 56
Specific Point	N90278+55-0093	ASME SA193 Gr. 86
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MRIR 6290 - '84



Attachment ? Code Data Reports (Page 4 of 6)

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CERTIFICATE OF SHOP INSPECTION

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Arkwright-Boston Manufacturers Mutual Insurance Company the Arkwright-Boston Hanufacturers Mutual Insurance Company they and state that the enaphent described in this Data Report on Arkwright William 1989 and state that the test of my knowledge and belief the Vita facturer has constructed this equipment to provide a with the applicable Schweetings of ASM. Section III

The sections that certificate meether the inspector not his employer makes any warrant expetessed or implicit, concerning the equips on described in this Data Report 9 into rooms contact the inspector nor his employer shall be hable in any manner for any personal implies of property thomas of a loss of any kind arising from a connected with this inspection.

April d, 1984 Factory Mutuel System

Amael & Charles Charles 1090

Attachment 2 Code Data Reports (Page 5 of 6)

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Attachment 2 Code Data Reports (Page 6 of 6)

Form N-2

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Factory Mutual System

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

Owner E	Owner Entergy Operations, Inc.			Date July 1	. 1991			
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PlantW				Unit 3				
Hwy. 18.				WA 01056121, C Repair Organiz	I 2686	43 P.O. No., Job	o No	
	Name P.O. Box B. Killo Address			Type Code Symb Authorization Expiration Dat	No.	Not Applic	cable	
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W81 Additional Name of Component	Name of Manufacturer	Manufacturer Serial No.	Replace Na- tional Board No.	Other Identification Valve	ment Co	omponents Repaired, Replaced, or Replacement Partial	ASME Code Stampe (Yes or No)	
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NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

remark)	s None
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this
THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUM	or replacement conforms to the rules of the ASME Code, Section XI.
Type Cod	de Symbol Stamp <u>None</u>
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	THE PROPERTY OF THE PROPERTY OF
Boiler and emplinspecter November and belifiers	undersigned, holding a valid commission issued by the National Board of and Pressure Vessel Inspectors and the State or Providence of Louisiana loyed by Awkwright Mutual Insurance Co.* of Norwood, MA have ad the components described in this Owner's Report during the period r 1989 to May 1991, and state that to the best of my knowledge ief, the Owner has performed examinations and taken corrective measures and this Owner's Report in accordance with the requirements of the ASME ection XI.
warranty describe	ing this certificate neither the inspector nor his employer makes any y, expressed or implied, concerning the examinations and corrective measures ed in this Owner's Report. Futhermore, neither the Inspector nor his r shall be liable in any manner for any personal injury or property damage of any kind arising from or connected with this inspection.
to	Commissions 7822 N B 1 S IS Inspectory Signature National Board and Endorsement
Date J	uly 1, 1991

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

The containment spray header A isolation valve, CS-125A, leaked by its seat under normal system pressure. The valve was disassembled and inspected. Extensive galling was found on the seats and gate. The seats and gate were replaced with spares from the warehouse.

Upon return to service, the valve was operationally tested in accordance with the Inservice Test Plan and found acceptable. A visual leak test was performed at normal operating pressure. The VT-2 examination results were satisfactory.

The certification for the replacement seats and gate are filed in the following records:

PO L-22660 MRIR 4598-83 L-22660 MRIR 4724-83

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

OwnerEnt	Owner Entergy Operations, Inc. Name			Date July 1, 1991				
1340 Echelo	1340 Echelon Parkway, Jackson, MS 39213 Address			Sheet 1 of	1			
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(b) Applica W81 Add Identificat Name of Component CVC Pump 1A CVC-126	Name of Manufacturer Gaulin Corp. Crosby	Manufacturer Serial No. 611848-3 N59357- 00-0002	Na- tional Board No.	Other Identification Charging Pump 1A Valve 2CH-R629A/B	Year Built 1974	mponents Repaired, Replaced, or Replacement Partial Replacement Partial Replacement Partial Replacement	ASME Code Stampe (Yes or No) No	

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

FORM NIS-2 (Back)

	CERTIFICATE OF COMPLIANCE
We	certify that the statements made in the report are correct and this
replace repair or re	ment conforms to the rules of the ASME Code, Section XI. placement
Type Code Sym	bol Stamp None
Certificate c	f Author zation No. Not Applicable Expiration Date Not Applicable ugth. Filley Maintenance Engineer Date July 1, 199
	CERTIFICATE OF INSERVICE INSPECTION
Boiler and Prand employed inspected the November 198 and belief.	signed, holding a valid commission issued by the National Board of ressure Vessel Inspectors and the State or Providence of Louisiana by Awkwright Mutual Insurance Co.* of Norwood, MA have e components described in this Owner's Report during the period to May 1991, and state that to the best of my knowledge the Owner has performed examinations and taken corrective measures this Owner's Report in accordance with the requirements of the ASME NXI.
warranty, ex described in employer wha	his certificate neither the inspector nor his employer makes any pressed or implied, concerning the examinations and corrective measures this Owner's Report. Futhermore, neither the Inspector nor his all be liable in any manner for any personal injury or property damage any kind arising from or connected with this inspection.
or a loss of	Commissions 7822 N B I S IS

* Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

The original piping specification, LOU-1564.100, required ASTM A-193 Grade B8 bolts with ASTM A-194 Grade 8 nuts. During plant operation, leakage at flanged connections became a contamination problem for piping containing borated water. The cause of the leakage was determined to be inadequate compression of the spiral wound gaskets. An alternate bolting material allowed by the piping specification is ASTM A-564 Grade 630 HT1100 bolts with ASTM A-194 Grade 6 nuts. This material is substintially stronger and allows adequate compression of the spiral wound gaskets. A Spare Parts Equivalency Evaluation Report.

SPEER 88-E-004, was implemented to track the drawing updates resulting from these bolting changes. Leaking flanges are evaluated on a case by case basis for incorporation into this program. A visual examination (VT-2) at operating temperature and pressure was performed on the flange bolting after replacement.

The material certifications for the replacement bolts and nuts are filed int he following records:

WA Number	Component ID	Bolt PO No./MRIR No.	Nut PO No./MRIR No.
01031747	CVC Pump 1A	WP015765, M01750	WP3-12165, 83-02654 (TR-5983, 0653-88)
01048696	CVC-126	W-12708, 0123-87	L-47690, 6693-84 L-47690, 6721-84 WP034667, M09870
01072962	SI-107A	WP028878, M02386 WP031555, M02618	WP031314, M08574

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

1	Owner Entergy Operations, Inc. Name				Date July 1.	1991		-	
	1340 Echelon	Parkway, Jack Address	son, MS 39213	L.	Sheet 1 of 3				
2.	Plant <u>Wate</u>	Plant <u>Waterford</u> Name			Unit 3				
	Hwy. 18, P.O. Box B. Killona, LA 70066 Address			WA 01058269, CI Repair Organiza			No		
3.	Work Performed by Entergy Operations, Inc. Name Hwy. 18, P.O. Box B. Killona, LA 70066 Address				Type Code Symbol Stamp None Authorization No. Not Applicable Expiration Date Not Applicable				
4.	Identificati	on of System	SI (Safety In	jection	1)				
9	(b) Applicab W81 Adde	ole Edition of	Section XI Ut	lized 1	For Repairs or F	teplace	ments 198 <u>0 t</u>		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No.	Other Identification	Year	Repaired, Replaced, or	ASME Code Stamped (Yes or No)	
	SI-512B	Anchor- Darling	E-6373-1-4	NA	Valve 1SI-V2509	1979	Partial Replacement	No	
	and the section of th						0.45.23		
L									
7	Descriptio	n of Work <u>Se</u>	e Attachment	(1 Pa	ge)				
					tic Norm	4 4	The second second second		

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

FORM NIS-2 (Back)

	CERTIFICATE OF COMPLIANCE
We certif	fy that the statements made in the report are correct and this
replacement repair or replacem	conforms to the rules of the ASME Code, Section XI.
ype Code Symbol St	camp None
4	Maintenance Engineer Date July 1, 1991
	CERTIFICATE OF INSERVICE INSPECTION
oiler and Pressure nd employed by Avenspected the composite ovember 1989 to nd belief, the Own	holding a valid commission issued by the National Board of Vessel Inspectors and the State or Providence of Louisiana Wkwright Mutual Insurance Co.* of Norwood, MA have been to described in this Owner's Report during the period May 1991 ——, and state that to the best of my knowledge her has performed examinations and taken corrective measures Owner's Report in accordance with the requirements of the ASME
arranty, expressed	rtificate neither the inspector nor his employer makes any dor implied, concerning the examinations and corrective measures Owner's Report. Futhermore, neither the Inspector nor his lightle in any manner for any personal injury or property damage

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

During plant operation, a leak developed at the hinge pin cover of check valve. SI-512B, from the HPSI header B to reactor coolant loop 2 hot leg. The cover bolts were retorqued in an effort to stop the leak. As a result, the studs were over torqued past the yield point of the material.

The hinge pin cover studs and nuts were replaced during Refuel 4 with spares from the warehouse. Prior to installation, the replacement studs and nuts were visually examined using the VT-1 method and found acceptable. Upon return to service, the studs and nuts were visually examined. The VT-2 examination results were acceptable.

The certifications for the replacement studs and nuts are filed in the following records:

PO WP033812 MIR M03786 WP039160 MIR M05280

FORM NIS-2 OWNFR'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Name				Date July 1, 1991				
1340 Echelo	n Parkway, Jack Address	son, MS 39213		Sheet <u>1</u> of <u>15</u>				
Plant <u>Wat</u>	erford Name			Unit 3				
Hwy. 18, P.O. Box B. Killona, LA 70066 Address				WA 01059571, CI Repair Organiza			No	
Work Performed by Entergy Operations, Inc. Name Huy, 18, r.O. Box B. Killona, LA. 70066				Type Code Symbol Stamp None Authorization No. Not Applicable Expiration Date Not Applicable				
	Address							
Identificat	ion of System	RC (Reactor (Coolant)				
				9 <u>74</u> Edition, <u>S7</u> for Repairs or F				
W81 Add		nts Repaired or	r Repla	ced and Replaces	ment C	omponents		
W81 Add		Manufacturer	Na- tional		Year	Repaired, Replaced, or	(Yes	
W81 Add Identificat Name of	ion of Componen	Manufacturer	Na- tional Board	Other	Year	Repaired, Replaced, or	Code Stampe (Yes	
W81 Add Identificat Name of Component	Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No.	Other Identification Pressurizer	Year Built	Repaired, Replaced, or Replacement	Code Stampe (Yes or No)	
W81 Add Identificat Name of Component RC EHTR72A2	Name of Manufacturer Combustion Engineering Combustion	Manufacturer Serial No. 20F	Na- tional Board No.	Other Identification Pressurizer Heater Pressurizer	Year Built 1987	Repaired, Replaced, or Replacement Replaced	Code Stampe (Yes or No)	
Name of Component RC EHTR72A2	Name of Manufacturer Combustion Engineering Combustion Engineering Combustion	Manufacturer Serial No. 20F	Na- tional Board No. NA	Other Identification Pressurizer Heater Pressurizer Heater	Year Built 1987	Repaired, Replaced, or Replacement Replaced	Code Stampe (Yes or No) No	
Name of Component RC EHTR72A2 RC EHTR72A3 RC EHTR72A3	Name of Manufacturer Combustion Engineering Combustion Engineering Combustion Engineering Combustion Engineering	Manufacturer Serial No. 20F 6 28F	Na- tional Board No. NA NA	Other Identification Pressurizer Heater Pressurizer Heater Pressurizer Heater Pressurizer Heater	Year Built 1987 1983	Repaired, Replaced, or Replacement Replaced Partial Replacement Replaced	Code Stampe (Yes or No) No	

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

FORM NIS-2 (Back)

Remarks See Attachment 2 (11 Pages) for Code Data Reports.
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this
replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp None
Certificate of Authorization No. Not Applicable Expiration Date Not Applicable Signed Lyff Pally Maintenance Engineer Date July 1, 1991
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of Louisiana and employed by Awkwright Mutual Insurance Co.* of Norwood, MA have inspected the components described in this Owner's Report during the period November 1989 to May 1991, 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 this Owner's Report. Futhermore, neither the Inspector nor his employer shall be 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 7822 N B I S IS Inspector's Signature National Board and Endorsements
DateJuly 1, 1991

^{*} Factory Mutual System

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

1.	Owner: Entergy Operations, Inc. 1340 Echelon Parkway, Jackson MS	Date July 1, 1991 39213 Sheer 3 of 15
2.	Plant: Waterford 3 Hwy. 18, P.O. Box B, Killona, LA	WA 01059571 CI 267525 70066
3.	Work Performed by: Entergy Operations, In Hwy. 18, P.O. Box B, Killona, LA	70066 Authorization No.: NA
4	Identification of System: RC (Reactor Coo	Expiration Date: NA

4. Identification of System: RC (Reactor Coolant)

6.

(a) Construction Code: ASME Sec III NB 1974 Edition S76 Addenda
(b) Repair/Replacement Code: ASME Sec XI 1980 Edition W81 Addenda

Name of Component		of of		Other Ident- fication	Year Built	Repaired, Replaced, Replacement	ASME Code Stamp
W.O.I.	nponenc	Panulac Guler	Number	**************************************	di Md.A.A.		
PC	EHTR73B1	Combustion Engineering	20F	Pressurizer Heater	1983	Replaced	No
RC	EHTR73B1	Combustion Engineering	1955	Pressurizer Heater	1991	Replacement	No
RC	EHTR7384	Combustion Engineering	24	Pressurizer Heater	1983	Replaced	No
RC	EHTR73B4	Combustion Engineering	1964	Pressurizer Heater	1991	Replacement	No
RC	EHTR76B1	Combustion Engineering	16	Pressurizer Heater	1983	Replaced	No
RC	EHTR76B1	Combustion Engineering	33	Pressurizer Heater	1983	Replacement	No
RC	EHTR76B2	Combustion Engineering	4	Pressurizer Heater	1983	Replaced	No
RC	EHTR76B2	Combustion Engineering	32	Pressurizer Heater	1983	Replacement	No
RC	EHTR76B3	Combustion Engineering	17F	Pressurizer Heater	1987	Replaced	No
R.C	EHTR76B3	Combustion Engineering	31	Pressurizer Heater	1983	Replacement	No

Attachment 1 Description of Work (Page 1 of 1)

During plant operating cycle 4, seven (7) pressurizer heaters were found with grounded elements. These heaters were removed and replaced with spare heater assemblies from stores. The socket welds holding the heaters in the pressurizer were examined using the dye penetrant method (PT) and found acceptable. The welds were exempt from testing in accordance with IWA-4400 (b) (5); however, a pressure test (VT-2) was performed at operating temporature and pressure.

Copies of Code Data Reports for the replacement heaters are presented in Attachment 2. Material certifications for the heaters are filed in the following record:

PO L-14076 MRIR 2393-83 (SN 31,32,33) L-27018 MRIR 5822-84 (SN 6) L-97732 MRIR 9068-87 (SN 25F) WP019852 MIR M04276 (SN 1955, 1964)

As re	gained by the Provisions of the ASME Code	Raire Sheet 1 c
a) Manufactured by COMBUSELON	Engineering, Inc1, **PSG, 911 W (Mean and address of Manufacture	win St., Chatte., TM. 37402
(b) Mass servered for ESES AS AD	(Neme and endress of Managaraner of complete	PUZIERZ-C-E Cont. 74370)
destification-blanufacturer's Serial P	o. of Perfer Augustaneotal Abest Nor	Bd. No. <u>H/A</u>
a) Constructed According to Drewin	# No. A-246-908-0 Decreas Prepared b	Compaction Engineering,
b) Description of Part Inspected	Prossuciaer Heaters	1000
e) Applicable ASME Code: Section II	, Edition 1971 , Addresda data 8-71 .	1820 Cece No. 1588 Class 1
Armets Above parts to be	used in a Class 1 nuclear pres	Furiser. Stamping is across
with Code Case No. 1588.	This data report consists of	two (2) sheets. Parts her
hydro tested to 3125 per	g. * Power Systems Group	
The Hartford Steam Bo	iler Inspection and Insurance C	0.
May 1, 19 87 st	Combustion Ind By (Meanfarmer)	R. a. Stille.
May 1. 19 87 St.	Combustion By Singinessing, Ind. (Massicrower) Conditions of A ON OF DESIGN FOR APPURTENANCE (w	R. A. Rills storisonius No. H-1980
Sey L. 19 87 St. Ifficate of Authorisation Espireo Affication	Combustion By Deed Singinessing Ind. (Manufacturer) (Descriptions of A	R. A. Rills storisonius No. H-1980
CERTIFICATI De sign infermation as file as	Combustion By Singinessing, Ind. (Massicrower) Conditions of A ON OF DESIGN FOR APPURTENANCE (w	R. A. Rills storisonius No. H-1980
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Attachment 2 Code Data Reports (Page 3 of 11)

EUFPLEMENT TO H-2 MANUFACTURER'S DATA REPORT FOR HUCLEAR PART AND APPUNTERANCES

		1
et	2	ed 2)

Contract 74370

1.(a) Manufactured by Combustion Engineering, Inc.-2 **PSG 911 W. Main St.,
Chattancogs, TW. 37402

(b) Manufactured for Same as above (Replacement Parts for Pressurises, C-E Contract 74270)

2. Identification - Manufacturer's Serial No. of Part Set below
Retional Board No. E/A

(a) Constructed According D Drawing No. A-246-908-0 Drawing Prepared by Combustion Engineerisms, 1861.

(b) Description of Part Inspected Pressuriscs Restars

(c) Applicable ASME Code: Section III, Edition 1871 Addenda date 8-71

Case No. 1588 Class 1

Serial Mumbers of Parts:

178

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		OR NUCLEAR PART AND AP of the ASME Code Roles	Short 1 of 2
(a) Massel acrosse by Combustion E	ngineering. Inc	-2PSG.911 W.Mein	St. Chatta . Th I
(b) Mosefar were les "Same as abo	ve*(Replacement	Parts for Pressurize	F-CE Contract 743
Idensida scientik soci serurer's Sesial Mau		MENTAL Shinger Bd. Ma.	
(a) Conservated According to Drawing M	A-246-785-0	Spendag Progress to COMBUST	ien Engineering.
(10 Description of Part Inspector		surizer Heaters	13000
(4) Applicable ASHE Coder Section EL, E-		1	860 9 6-18 F
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Attachment 2 Code Data Reports (Page 6 of 11)

BUPPLEHEAT TO 18 W-2 MANUFACTURER'S DATA REPORT POR MUCLEAR PART A Contract APPURTENANCES 1. (a) Manufactured by Combustion Engineering, Inc. 200 PSCENES, 911 W. Nain RE. Chattanooga, TN. 37402 (D) Manufactured for "Same as above" (Replacement Parts for Pressurizer-CE Contract 74370) 2-Edentification - Manufacturer's Serial No. of Part Mac'l. Bd. Ho.T Drawing Proposed by Sel (a) Constructed According to Drawing Ro. A-246-788-0% EBRIDERFIDE (b) Sescription of Part Inspected Pressurizer Heaters Applicable ASME Code: Section III, Edition 1971 Addenda date; .V. Bossonicke : Serial Numbers of Parts: 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23,

24, 25, 26, 27, 29, 30

Attachment 2 Code Data Reports (Pagr 7 of 11)

Corrected Copy

FORM N-2 N OR NET CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES:

4.50	ulactured and certified by FOWET	Regineering beyond was	1 55 OLG DOVEF	Rd, Newington; NA
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g in	AR AR CE Newington was	directed to follow	the 1986 Editio	01, 86
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Part or Appurtenance National Part or Appurtenance National Beard No. Serial Number Serie Number Board Number in Numerical Order MFG. S/N in Numerical Order *** 1944 None 1261 1945 (27) (2) ... (28) 131 161 . 291 _ 448 31 . 1301 .. 949 Bi .. 311 ... (71 m 321 .. (8) ms 1551 .. 191 -(341 __ (101 ... (361 ... 1954 17.58 mm (36) _ (12) -1371 -1956 17.21 .. 'B1 .. (14) m (39) _ 1958 1151 -1401 ... 1161 ... (A () ... (17) mm (421 ... (4.31 _ 1161 ... 362 (19) -(44) ... 1963 (20) ... (4.51 ... 1964 1211 __ 1481 ... 1965 1471 ... 1221 _ (48) . 1231 -1967 (24) weeks (491 ... 1251 (50) ... 3125 2500 m at temp 78 +s . Dar Temp. 10. Design pressure "# Hydro, test pressure

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This form (E000468 may be decimed from the Orient Copt. A bitt. 22 Law Drive. Box 2.360, 7 private, NJ 07007 2.300.

Attachment 2 Code Data Reports (Page 8 of 11)

FORM N 2 (back)

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*** Corrected Mfg. Serial Numbers.

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3/27/91

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Attachment 2 Code Data Reports (Page 10 of 11)

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Attachment 2 Code Data Reports (Page 11 of 11)

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FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section X1

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

FORM NIS-2 (Back)

CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp None
Certificate of Authorization No. Not Applicable Expiration Date Not Applicable Signed Dugfff Dilley Maintenance Engineer Date July 1, 1991
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of Louisiana and employed by Awkwright Mutual Insurance Co.* of Norwood, MA have inspected the components described in this Owner's Report during the period November 1989 to May 1991, 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 this Owner's Report. Futhermore, neither the Inspector nor his employer shall be lighte in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions 7822 N B I S IS
Inspector's Signature National Board and Endorsements Date July 1, 1991

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

During disassembly of charging pump AB discharge header check valve. CVC-194AB, for inspection, the bonnet galled in the body threads. The outside surface of the bonnet was gouged during the removal process.

The threaded surfaces were cleaned up using taps and die nuts. The external surface of the bonnet was ground smooth as preparation for seal welding at reassembly.

The ground area of the bonnet was examined using the dye p' etrant method (PT) and found acceptable prior to seal welding. A dye penetrant (PT) examination was performed on the seal weld with acceptable results.

The repair is exempt from hydrostatic testing per IWA-4400 (b) (3). The valve was visually examined for leakage at operating pressure. The VT-2 examination results were satisfactory.

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

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	lame of		Manufacturer Serial No.	Na- tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)
5	I-108A	TRW Mission	D3642	NA	Valve 2SI-V331A	1977	Replaced	Yes
-	I-108A	TRW Mission	D3643	NA	Valve 2SI-V331A	1977	Replacement	No
5	I-108B	TRW Mission	D3643	NA	Valve 2SI-V332B	1977	Replaced	Yes
	I-108B	TRW Mission	D3642	NA	Valve 2SI-V332B	1977	Replacement	No
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NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this
	lacement conforms to the rules of the ASME Code, Section XI. replacement
Type Code	Symbol Stamp None
Certificat Signed — (Dugt Mulley Maintenance Engineer Date July 1, 199
	CERTIFICATE OF INSERVICE INSPECTION
Boiler and and employed inspected November 1 and belief described	ersigned, holding a valid commission issued by the National Board of Pressure Vessel Inspectors and the State or Providence of Louisiana ed by Awkwright Mutual Insurance Co.* of Norwood, MA have the components described in this Owner's Report during the period to May 1991, and state that to the best of my knowledge, the Owner has performed examinations and taken corrective measures in this Owner's Report in accordance with the requirements of the ASME ion XI.
	this certificate neither the inspector nor his employer makes any expressed or implied, concerning the examinations and corrective measures in this Owner's Report. Futhermore, neither the Inspector nor his hall be liable in any manner for any personal injury or property damage of any kind arising from or connected with this inspection.

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

During disassembly inspection of the low pressure safety injection (LPSI) pump A suction header check valve, SI-108A, it was discovered that the Buna-N elastomeric seats in the valve body had degraded. Based on the seat degradation in SI-108A, the LPSI pump B suction header check valve, SI-108B, was also inspected. Seat degradation was also found in SI-108B. The Buna-N (nitrile) seats were replaced with ethylene propylene (EPDM) seats.

Inspection of the disc plates from SI-108B revealed a 0.005 inch deep scratch across the seating surface. While removing the scratch, a 0.125 inch deep half moon shaped groove was cut in the center of the disc. The groove was machined an additional 0.010 inches to remove any scratches as preparation for weld repair.

The prepared area was examined using the dye penetrant method and found acceptable prior to weld repair. After weld repair, the surface was machined to a flatness of 0.002 inches. A final dye penetrant examination was performed on the machined surface. The results were acceptable.

Due to refueling outage scheduling concerns, a disc plate from SI-108A was installed in the SI-108B valve. The original SI-108B valve was then installed in the SI-108A location. The repaired d'sc plate from the original SI-108B valve was installed in the original SI-108A. The original SI-108A valve was then installed in the SI-108B location.

Upon return to service, a visual leak test was performed on the valves. The VT-2 examination results for SI-108A were acceptable. Valve SI-108B had a small leak at the hinge pin retainer plug. This leak could not be corrected with the valve in service. The leak will be corrected under CI 275656.

A copy of the Code Data Report for the valves is presented in Attachment 2. The certifications for the valves are filed in the following record:

PO NY-403493 MRIR 77-05939

Attachment 2 Code Data Report (Page 1 of 2)

*Corrected Copy + Date Omitted FORM NAV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES" (As Required by the Previsions of the ASME Code, Section M. Div. 1) MYP-1212 1. Manufactured by TRW Mission Mfg. Co.; A Div. of T.R.W., Inc.; Houston, Texas 2 Memutecourse for Louisians Pover ! Light Cospany Materford SES Unit 3; St. Charles Parish, LA 3. Location of Installation Outlet Blas ___20. Valve ... Nominal Inlet Size & Purrie or Valve (b) Manufacturers' es Canaulan (a) Model No., in Nat's. (g) Year (d) Drawing Registration Serial Series No. (a) Class Sd. No. Buill No. No. or Type No. 10297 None. 03642 None 30 CMF-X26 (1) 19/1 lone . 19297 NODE. CME = 7.26 03643 (3) (4) (54 163 (7) 85 (9) (10) From RWSP or SIS to LPSI Pump A (SIN DSCHR) FOR RWSP OF SIS to LPSI Pump B (1/4 1/5/93) . F of Valve Pressure Ciase 440 pel 400 Pressurei (Temperatura) 6. Dusign Conditions ... pei at 100 F. 720 7. Cold Working Pressure . 6. Pressure Retaining Pieces Remarks Manufacturer Material Spec. No. MARK NO. (a) Castings Osla. Steel Catgo. Bodies ASME SARSI GE. CESM 12260-03-0471 Plates ASM SA351 Dr. C. SM 1225 3-00-04 (b) Forgings (1) For menually exerted valves only.

(1/76)

^{*} Supplemental sheets in form of lists, cliniches or drawings may be eved provided (1) size is 8-12" x 11". (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) ruch sheet is numbered and number of sheets is reported at top of this form.

Attachment 2 Code Data Report (Page 2 of 2)

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

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

FORM NIS-2 (Back)

CERTIFICATE OF CO	OMPLIANCE
We certify that the statements made	in the report are correct and this
replacement conforms to the rule repair or replacement	s of the ASME Code, Section XT.
Type Code Symbol Stamp None	
Signed Dugtin Hilley . M.	ble Expiration Date Not Applicable
CERTIFICATE OF INSERV	ICE INSPECTION
the undersigned, holding a valid commission coiler and Pressure Vessel Inspectors and the and employed by Awkwright Mutual Insurance Conspected the components described in this Own ovember 1989 to May 1991, and stand belief, the Owner has performed examination described in this Owner's Report in accordance code, Section XI.	State or Providence of <u>Louisiana</u> * of <u>Norwood, MA</u> have er's Report during the period ate that to the best of my knowledge ns and taken corrective measures
by signing this certificate neither the inspectarranty, expressed or implied, concerning the described in this Owner's Report. Futhermore, employer shall be liable in any manner for any or a loss of any kind arising from or connected	examinations and corrective measures neither the Inspector nor his personal injury or property damage
Man Mall Somm	issions 7822 N B I S IS

^{*} Factory Mutual System

Attachment 1 Description of Work (Page 1 of 1)

During plant operation, the containment spray leader A drain valve, CS-127A, developed a seat leak. The valve was subsequently disassembled and inspected. Inspection results revealed a damaged disc, stem and backseat.

The disc was replaced with a spare from the warehouse. The stem and back seat were removed from a spare valve in the warehouse and used as replacements for the damaged stem and backseat.

Upon return to service, the valve was visually examined for leakage under WA CI 246435. The VT-2 examination results were acceptable.

A copy of the Code Data Report for the disc (serial no. 127-3) is presented in Attachment 2. The certifications for the replacement items are filed in the following records:

PO NY-403506 MRIR 83-02158 (TR-4737 MRIR 6435-86) WP017535 MRIR 3409-90

Attachment 2 Code Data Report (Page 1 of 2)

POSSE N-3 NPT CERTIFICATE HOLDERP BAYA REPORT FOR MUCLEAR PART AND APPURTENANCES. As required by the Provision of the ASSEE Code Rules, Section III, Day, I

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Attachment 2 Code Data Report (Page 2 of 2)

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

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PlantWat	Plant Waterford Name				Unit 3					
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	ned by <u>Entergy</u> Name O. Box B. Killo Address			Type Code Symbo Authorization N Expiration Date	lo	Not Applic				
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NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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. Remarks None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this
repair & replacement conforms to the rules of the ASME Code, Section XI. repair or replacement
Type Code Symbol Stamp None
Signed Ing Am Hilley Maintenance Engineer Date July 1, 1991
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of Louisiana and employed by Awkwright Mutual Insurance Co.* of Norwood, MA have inspected the components described in this Owner's Report during the period November 1989 to May 1991, 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 this Owner's Report. Futhermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any find arising from or connected with this inspection. Commissions 7822 N B I S IS National Board and Endorsements
Date July 1, 1991

^{*} Factory Mutual System

Attachment 1 Description of Work (P. je 1 of 1)

While disassembling the handhole cover for steam generator no. I secondary side inspection, two study were damaged. The study were replaced with spares from the warehouse.

During removal of the steam generator no. 1 hot leg manway, one stud had to be out off. The stud was drilled out and a threaded insert was installed to allow use of the original size stud.

The replacements were visually examined at normal operating pressure. The VT-2 examination results were acceptable.

The certifications for the replacements are filed in the following records:

PO L-31976 MRIR 5472-84

TR-8847 MRIR 4367-91 (Contract C-31565)

WP033048 MIR M04912

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

Owner Entergy Operations, Inc. Name				Date July 1, 1991					
1340 Echelon Parkway, Jackson, MS 39213 Address				Sheet 1 of 3					
Plant Wat	Plant Waterford Name				Unit 3				
Hwy. 18. I	P.O. Box B. Kill Address	WA 01071582, WA 01071659 & WA 01075129 Repair Organization P.O. No., Job No							
Work Performed by <u>Entergy Operations</u> . <u>Inc.</u> Name				Type Code Symbo Authorization N Expiration Date	0	Not Applic			
Hwy. 18, P	O. Box B. Killo Address	na. LA 70066	2						
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NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is $8\ 1/2$ in. X 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this
	replacement conforms to the rules of the ASME Code, Section XI.
Type Code	Symbol Stamp None
	Dugh Maintenance Engineer Date July 1, 1991
	CERTIFICATE OF INSERVICE INSPECTION
Boiler an and emplo inspected November	dersigned, holding a valid commission issued by the National Board of and Pressure Vessel Inspectors and the State or Providence of Louisiana byed by Awkwright Mutual Insurance Co.* of Norwood, MA have the components described in this Owner's Report during the period 1989 to May 1991 , and state that to the best of my knowledge of, the Owner has performed examinations and taken corrective measures
described Code, Sec	in this Owner's Report in accordance with the requirements of the ASME

^{*} Factory Mutual System

While disassembling the handhold cover for steam generator no. 2 secondary side inspection under WA 01071659, for study and nuts were damaged. The study and nuts were replaced with spares f the warehouse. Prior to installation, the four replacement study were examined using the VT-1 method and found acceptable.

During removal of the cold leg manway under WA 01075129, four studs galled. Two of the studs (no. $1\ \&\ 2$) were removed with no damage to the threaded holes. The other two studs (no. $1\ \&\ 19$) had to be cut off. The studs were drilled out and threaded inserts were installed to allow use of the original size studs. Prior to installation, the four replacement studs were examined using the VT-1 method and found acceptable.

During removal of the hot leg manway under WA 01071582, two studs were damaged. The studs were replaced with spares from the warehouse. Prior to installation, the two replacement studs were examined using the VT-1 method and found acceptable.

The replacements were visually examined at normal operating pressure. The VT-2 examination results were acceptable.

The certifications for the replacements are filed in the following records:

PO A-75611 QCRIR 86-80 L-31976 MRIR 5472-84 TR-8847 MRIR 4367-91 (Contract C-31565) WP032817 MIR M07313 WP033048 MIR M04912

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

Name 1340 Echelon Parkway, Jackson, MS 39213 Sheet 1 of 5 Address 2. Plant Waterford Unit 3 Hwy 18, P.O. Box B, Killona, LA 70066 Repair Organization P.O. No., Job No 3. Work Performed by Entergy Operations, Inc. Type Code Symbol Stamp None Name Authorization No. Not Applicable Expiration Date Not Applicable Hwy 18, P.O. Box B, Killona, LA 70066 Address 4. Identification of System SI (Safety Injection) 5. (a) Ayplicable Construction Code Sec III NB 1971 Edition, W73 Addenda, NA Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through W81 Addenda 5. Identification of Components Repaired or Replaced and Replacement Components Na- Repaired, Code	-	Owner Enti	erev Operations	Inc		Date July 1,	1001	LINGSON AMERICA A TOPOZI E LINGSON ACURAN	rear hat time	
Address Plant Vaterford Name Hwy 18, P.O. Box B, Killona, LA 70066 Address Work Performed by Entergy Operations, inc. Name Name Hwy 18, P.O. Box B, Killona, LA 70066 Address Identification of System SI (Safety Injection) (a) Applicable Construction Code Sec III NB 1971 Edition, W73 Addenda, NA Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through W81 Addenda Identification of Components Repaired or Replaced and Replacement Components Name of Name of Manufacturer Board Other No. Identification Built Replacement or No. Identification Replacement Of No. Identification Replacement No. Stanp No. Identification Replacement No. Replac		Name				- Child Land Champan				
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(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 through W81 Addenda 1 Identification of Components Repaired or Replaced and Replacement Components Name of		Identificat	ion of System	SI (Safety In	ijection	11				
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7. Description of Work See Attachment 1 (1 Page) 8. Tests Conducted: Hydrostatic Pneumatic Normal Operating Pressure			The second secon	A STATE OF THE PARTY OF THE PAR	tional Board			Replaced, or	Code Stamped (Yes	
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NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

	CERTIFICATE OF COMPLIANCE
We cert	ify that the statements made in the report are correct and this
replacemen repair or replace	conforms to the rules of the ASME Code, Section XI.
ype Code Symbol	Stamp None
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	CERTIFICATE OF INSERVICE INSPECTION
oiler and Pressu nd employed by _ nspected the com ovember 1989 nd belief, the O	
oiler and Pressure and employed by named the compovember 1989 and belief, the Order of this ode, Section XI. y signing this contract of the c	CERTIFICATE OF INSERVICE INSPECTION d, holding a valid commission issued by the National Board of re Vessel Inspectors and the State or Providence of Louisiana Awkwright Mutual Insurance Co.* of Norwood, MA have ponents described in this Owner's Report during the period to May 1991 , and state that to the best of my knowledge wher has performed examinations and taken corrective measures

^{*} Factory Nitual System

During plant operation, the reactor coolant loop 1 hot leg injection leakage drain valve, SI-301, developed a seat leak. The valve was subsequently disassembled and inspected. Inspection revealed a damaged disc, seat and backseat.

The disc, seat and backseat were replaced with spares from the warehouse.

Upon return to service, the valve was visually examined for leakage. The VT-2 examination results were acceptable.

A copy of the Code Data Report for the disc is presented in Attachment 2. The certifications for the replacements are filed in the following records:

P.O. L-48866 MRIR 9073-85 WP017535 MRIR 3409-90 WP019530 MIR M08063

Attachment 2 Code Data Report (Page 1 of 2)

PORM HAS NOTE CAMPRIDGATE HOLDINGS BATA RESIGNATING MAKLEAR PART AND APPLICATIONAL CEST.

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Attachment 2 Se Data Report Page 2 of 2)

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

	Owner <u>Ente</u>	rgy Operations. Name	100	noser .	Date July 1.	1991			
	1340 Echelon Parkway, Jackson, MS 39213 Address			_	Sheet <u>1</u> of <u>3</u>				
	Plan: Waterford Name				Unit 3				
	Hwy. 18. P.	P.O. Pox B. Killona, LA 70066 Acdress			WA 01049168 CI Repair Organiza			No	
3		Work Performed by Entergy Operations, Inc. Name Hwy. 18, P.O. Box B, Killona, LA 70065 Address				0.	P None Not Applic Not Applic		
4.	Identificati	on of System	CAR (Contains	ent Atm	ospheric Releas	e)			
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6	Name of Component	Name of Manufacturer Bergen	Manufacturer Serial No.	Na- tional Board No.	Other Identification Spring	Year Built	Repaired, Replaced, or Replacement	Code Stampe (Yes or No)	
The second secon	Name of Component HVSH-4028	Name of Manufacturer Bergen	Manufacturer Serial No.	Na- tional Board No. NA	Other Identification Spring Hanger	Year Built	Repaired, Replaced, or Replacement	Code Stampe (Yes or No)	

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

	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this
	acement conforms to the rules of the ASME Code, Section XI.
Type Code	Symbol Stamp None
Certificat	Fe of Authorization No. Not Applicable Expiration Date Not Applicable Fully Maintenance Engineer Date July 1, 199

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of Louisiana and employed by Awkwright Mutual Insurance Co.* of Norwood, MA have inspected the components described in this Owner's Report during the period November 1989 to May 1991, 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 this Owner's Report. Futhermore, neither the Inspector nor his employer shall be lyable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Signature

Commissions 7822 N B I S IS

National Board and Endorsements

Date July 1, 1991

^{*} Factory Mutual System

Routine walkdown of plant pipe supports revealed that the spring on pipe support HVSH-4028 was not supporting line 2HV4-14 as designed. The pipe support was evaluated and modified to properly support the piping.

After modification, pipe support HVSH-4028 was visually inspected. The VT-3 and VT-4 examination results were acceptable.

The certifications for the replacement materials are filed in the following records:

P.O. WP3-3495 MRIR 80-02057 (TR-3315 Item 6 MRIR 3190-86) WP3-11039 MRIR 83-01751 (TR-5352 Item 9 MRIR 8070-87)

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

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1	Owner <u>Ent</u>	Owner Entergy Operations, Inc. Name			Date July 1	1991			
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	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
	HVRR-4029	Bergen Paterson	NA	NA	Rigid Restraint	NA	Partial Replacement	No	
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CERTIFICAT	TE OF COMPLIANCE
We certify that the statements	made in the report are correct and
replacement conforms to th	ne rules of the ASME Code, Section XI.
ype Code Symbol Stamp None	
igned Dugt Mulley	Applicable Expiration Date Not Applicabl Maintenance Engineer Date July 1, 1991
CERTIFICATE OF	INSERVICE INSPECTION
oiler and Pressure Vessel Inspectors and employed by <u>Awkwright Mutual Insura</u> inspected the components described in thousand to <u>May 1991</u> , and belief, the Owner has performed exam	
escribed in this Owner's Report. Futhe	ing the examinations and corrective measures ermore, neither the Inspector nor his for any personal injury or property damage
Inspector bignature	National Board and Endorsements

A design engineering walkdown of the Containment Atmospheric Release (CAR) system revealed that adequate clearances did not exist to accommodate containment expansion during LOCA conditions. Pipe support HVRR-4029 and line 2HV1-17 were modified to provide adequate clearance for 2HV4-14.

Line 2HV1-17 was shortened 1.5 inches to allow 2 inch minimum clearance during normal operation and adequate clearance during LOCA conditions. Pipe support HVRR-4029 was modified for a 2.5 inch clearance during operation and acceptable clearance during accident conditions.

Pipe support HVRR-4029 was visually examined under WA 01080816 CI 276435. The VT-3 examination results were acceptable.

The certification for the replacement material is filed in the following record:

P.O. WP026234

MIR M03968

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

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		Address	na, LA 70066						
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Name o		Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)	
MSRR-2		Bergen Paterson	NA	NA	Rigid Restraint	NA	Partial Replacement	No	
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. Remarks None	-
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and the	nis
replacement conforms to the rules of the ASME Code, Section XI. repair or replacement	
Type Code Symbol Stamp None	
Signed Durit M Zilley . Maintenance Engineer Date July	
CERTIFICATE OF INSERVICE INSPECTION	te markets, a considerative entre trans-
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of Louisian and employed by Awkwright Mutual Insurance Co.* of Norwood, MA have inspected the components described in this Owner's Report during the period November 1985 to May 1991, and state that to the best of my know and belief, the Owner has performed examinations and taken corrective measured described in this Owner's Report in accordance with the requirements of the ACCode, Section XI.	ledge
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective me described in this Owner's Report. Futhermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property da or a loss of any kind arising from or connected with this inspection. Commissions 7822 N B I S IS National Board and Endo	mage
Date <u>July 1, 1991</u>	

^{*} Factory Mutual System

As part of Design Change 3277, pipe support MSRR-2 was modified. The tube steel that connected the end attachment to the structural steel was replaced and the struct length was adjusted.

The welds were visually examined and were found acceptable. Support MSRR-2 was examined using the VT-3 method. The results were acceptable.

The certifications for the replacement material are filed in the following record:

P.O. WP3-8530 MRIR 82-02579 (TR-5872 Item 18 MRIR 0185-87)

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

wher <u>Entr</u>	ergy Operations. Name	Inc.	D	Date July 1.	1991			
1340 Echelon Farkway, Jackson, MS 39213 Address				Sheet 1 of 7				
Plant <u>Wat</u>	erford Name		1	Unit 3				
Hwy. 18, P	O. Box B. Kille Address		WA 01054796 & WA Repair Organizat			No		
	med by <u>Entergy</u> (Name O. Box B, Killon Address			Type Code Symbo Authorization No Expiration Date	0.	Not Applica	able able	
	In a F Contact D	C (Reactor Coo	lant)					
(b) Applica	ble Construction of	n Code Sec III	NB 19	71 Edition, W7 for Repairs or R	l Adde	enda, <u>NA</u> Code ements 198 <u>0 t</u>	Case hrough	
(a) Applica (b) Applica W81 Add	ble Construction of	n Code <u>Sec III</u> Section XI Uti	NB 19 lized f	or Repairs or R	eplacement Co	ments 198 <u>0 t</u> mponents Repaired, Replaced, or	ASME Code Stampe	
(a) Applica (b) Applica W81 Add Identificat Name of	ble Construction ble Edition of ienda	n Code <u>Sec III</u> Section XI Uti ts Repaired or Manufacturer	NB 19 lized f Replac Na- tional Board	or Repairs or R	eplacement Co	ments 198 <u>0 t</u> mponents Repaired, Replaced, or	ASME Code Stampe	
(a) Applica (b) Applica W81 Add Identificat Name of Component	ble Construction of denda	n Code <u>Sec III</u> Section XI Uti ts Repaired or Manufacturer Serial No.	NB 19 lized f Replace Na- tional Board No.	Other Identification Valve	eplace ent Co Year Puilt	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)	
(a) Applica (b) Applica W81 Add Identificat Name of Component RC-317A	ble Construction of Benda ion of Componen Name of Manufacturer Dresser	n Code <u>Sec III</u> Section XI Uti ts Repaired or Manufacturer Serial No. BS-08031	NB 19 lized f Replace Na- tional Board No.	Other Identification Valve 1RC R2573A	Year Puilt	Repaired, Replaced, or Replacement Replaced	ASME Code Stampe (Yes or No)	

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

Remarks See Attachment 2 (4 Pages) for Code Data Reports.
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI, repair or replacement
Type Code Symbol Stamp None Certificate of Authorization No. Not Applicable Expiration Date Not Applicable Signed Duff Dilley Maintenance Engineer Date July 1, 1991
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of Louisiana and employed by Awkwright Mutual Insurance Co.* of Norwood, MA have inspected the components described in this Owner's Report during the period November 1989 to May 1991, 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 this Owner's Report. Futhermore, neither the Inspector nor his employer shall be 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 7822 N B I S IS This part of Signature National Board and Endorsements
DateJuly 1, 1991

^{*} Factory Mutual System

During plant operation, one of the pressurizer relief valves began to leak by its seat. A short maintenance outage was planned to replace both valves.

Under WA 01056125, pressurizer relief valve RC-317A (serial no. BS-08031) was replaced with a spare valve (serial no. BW-09724) during the maintenance outage. The spare valve had been refurbished and tested under WP032365 by the valve manufacturer, Dresser Industries, Inc. Upon return to service, the replacement was visually examined using the VT-2 method. The results were acceptable.

During the refueling outage under WA 01054796, the installed valve (serial no. BW09724) was replaced with the original valve (serial no. BS-08031). The original valve had been refurbished and tested under WP035078 by the valve manufacturer, Dresser Industries, Inc.

Upon return to service, the valve was visually examined using the VT-2 method. The results were acceptable.

Copies of the Code Data Reports for the replacements are presented in Attachment 2. Certifications for the refurbishment by Dresser Industries, Inc. are filed in the following records:

PO WP032365 MIR M06241 WP035078 MIR M08067

Attachment 2 Code Data Reports (Page 1 of 4)



FORM HYML IN CERTIFICATE HOLDERS' DATA REPORT FOR SAKETY AND SAFAY RELIEF VALVES"

(AS REQUIRED BY THE PROVISIONS OF THE ASSE CODE, SECTION 111 DIV

1. HAMUFACTURED BY DR	ESSER INDUSTRIAL VALVE & INSTI	R. DIV. HIGHTAY 71 HOTTH A	ELETANDRIA LOUISTANA
	NAME AND ACCIDIN	ESS OF M CERTIFICATE MOLDS	
. MANUFACTURED FOR S	ombustion Engineering	Inc.,1000 Prospect I	Hill Rd Windsor, CT 060
	RODA ONA SMAN)	ESS OF PURCHASER OR OWNER)	
LOCATION OF INSTAL	ATION BOSTON Edison Co.	Pilgrim Sta. Unit	12. Plymouth, Mass.
	3NCO47	(44)	1070
- (CRM)	(DRAVING NO.)	(NATL, BRO. NO.)	1979
6"31709N	AX-1-XFM-NCO47		(YEAR BUILT)
. TALLE promounterenterenteren	DEL NO. SERIES HO.)	IDENTIFYING HOS	BS-08031
Ives Safet	*		RTIFICATE HOLDERS' SERIAL NO.
The second second second	(SAFETY SAFETY RELIEF; PIEO	LASS	. (1995)
CHIFICE SIZE 2	751		
5111116 5146 mmmm	INCH	INCH SIZE	THET SIZE
S. SET PRESSURE (PSIE)	2485		700
		RATED TEMPERATURE	a k
STAMPED CAPACITY	304,874 LBS/HR. e	3 # OVERPRESSURE BL	ONDOWN(PEIG) 124
	SAT.STEAM		THE OWNER OF THE PARTY OF THE P
HYDROSTATIC TEST (F	SIG) INLET 3728	DUTLEY	750
PRESSURE RETAINING	PIECES	(APPLICABLE	TO VALVES FOR CLOSED STSTEMS
	SERIAL NO. OR		
	IDENTIFICATION	INCL.	L SPECIFICATION TYPE OR GRADE
8007	-		THE PROPERTY OF THE PARTY OF TH
BONNET OR YOLK	` AAA46	SA182	Gr. F316 -
SUPPORT ROOS	T1166	SA105	
HOZZLE			TOTAL DESCRIPTION OF A PROPERTY OF THE PARTY
0150	AAA92	SA182	. Gr. F347
SPRING WASHERS	(Top) AAA31 (Bottom) A		Cr. 688
ADJUSTING SCREW	(M.	the second secon	
SPINOLE	4417		Class A
SPRING	AAA59		Gr. 347
BOLTING	A26168		A681 Type H-12
OTHER PIECES	AUE	SA193	. Gr. 87
A.MER P.16069			
Outlet Flange	623787	A 1 1 A A	The state of the s
Nipple	462883		, Gr.F316
Bonnet Nuts	CK39	SA312	Control of the Contro
	William P	SA194	Gr.2H

"SUPPLEMENT SHEETS IN FORM OF LISTS SHETCHES ON ORAWINGS WAY BE OSED PROVIDED (1) SIZE IS 8-1/7" X 11"
(2) INFORMATION IN ITZWS 1-2 ON THIS DATA REPORT IS INCLUDED ON EACH SHEET, AND (%) EACH SHEET IS MUMBERED AND NUMBER OF SHEETS IS RECORDED AT TOP OF THIS FORM.

Attachment 2 Code Data Reports (Page 2 of 4)

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CEAT FICATE OF C	BOKALIANCE	the contract and the second contract to the second second contract to the second contract to	-
WE CERTIFY THAT THE STATEMENTS WADE IN THIS REPORT ARE	E CORRECT AND 1		E RULES
of construction of the asks coot for Huclean Posen Fu	ANT COMPONENTS,	. SECTION 11 014.1. 1974	*
EDITION COORDA CATE)	SE HO.	7187	
DATE 1-25-29 SIGNED Dresser IVID	11 /	Wat wat	
(N CERTIFICATE HOLDER)		al Qualipy Assurance En	agineer
SUR ASME CERTIFICATE OF AUTHORIZATION NO.	-1747	10 USE THE	NV
STUBOL EXPLASS May 20, 1980		17 725 116	(M1)
(DATE)			
× *			Mark Court By Mark Mark Take
OFF .: IMPORMATION ON FILE AT Dresser Plan		ria, La.	-01/17
S. SESS AMALTS IS REPORT (CLASS I GMLT) ON FILE AT DI			
DESIGN SPECIFICATIONS CERTIFIED BY W. W. Alber	re		
PE STATE Connecticut	MEG. NO.	6333	****
STRESS REPORT CENTIFIED BY! Y. S. Lai			
re state Louisiana	REG. NO.	14103	Marine Marine Delication of
SIGNATURE NOT REQUIRED-LIST MAME ONLY			
			100 100
CERTIFICATE OF INTHE UNDERSIGNED, HOLDING A VALIO COMMISSION ISSUED INSPECTORS AND THE STATE OR PROVINCE OF LOUISIANA AND COMPANY OF MARTFORM, COMM, MAYE INSPECTED THE PURP, OR 19 79, AND STATE THAT TO THE EEST OF MY KNOWLEDGE AND PUMP! OR VALVE, IN ACCORDANCE WITH THE ASME CODE FOR BY SIGNING THIS CERTIFICATE, MEITHER THE INSPECTOR NO CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPOR SHALL BE LIABLE IN ANY MAMMER FOR ANY PERSONAL INJURY FROM OR COMMERTED WITH THIS INSPECTION.	EV THE NATIONAL EMPLOYED BY IM VALVE, DESCRIPI BELIEF, THE M CS NUCLEAR POWER I R MIS EMPLOYER T. FUTHERSONE, NI OR PROPERTY D.	HE HARTFORD STEAM MOLLER : B. HE HARTFORD STEAM MOLLER : B. HED IN THIS DATA REPORT ON	CTED THIS
The state of the s		X-11-1 672	
STANED FOR TO XWY	COMMISSIONS	Louisians 672	Market Sale Control of Control



FORM NY ... IN SERTIFICATE HOLDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES'

SAMUFACTURED FOR La. P	we & Lgt. Co., 317 Sarca	of N C TIFICATE N	61005 , New	Orleans, LA 70
	NAME AND ADDRESS OF	The second secon		
OCATION OF INSTALLATION	La.Pwr & Lat.Co., Water	rford #3 Nuclea	r, Bwy 18,	raft, LA 7000
	3NC119	N/A		1985
CRN:	(CRATING NO.)	(NATL . SRD . NO.)	(YEA)	BUILT)
ALTE	-XFM1-NC119		BM-09724	
ser Safety	1. , SEA (ES MQ.)	(M C	ENTIFICATE HOLD	ERS' SERIAL MO.)
2.1	FETY SAFETY RELIEF PILOT POWE	R ACTUALED)	The same is a second contract of the same	
# IF ICE \$ 17E	2.351	6	OUTLET SIZE	8
AC.	H	NCH		131016
ET PRESSURE(PS (0)	2495 ✓	RATED TEMPERATURE	Satur	ated or
TAMPED CAPACITY SAT	504,874 / LBS NR + 03	* OVERPRESSURE	BLOWDOWH(PS:G)	124
OROSTATIC TEST (PSIE)	INLET 3750 .	OUTLET	750	
RESSURE RETAINING PIECE		(APPLICABLE	TO VALVES FOR	CLOSED SYSTEMS ON
	SERIAL NO OF		AL SPECIFICATION	
007	AAA78		SA182, Gr.	F316
OWNET OR YORE	6061156		SA105	
UPPORT ROOS				-
OZZLK USC	AAB58		SA182, Gr.	
PRINCE PASHERS	AA031		SA637, Gr.	000
BRAZE SMITZULD			****	
PINOLE	The case that is a factor of the contract of t	TO SEE SHIP OF A STATE OF THE PARTY OF THE P	************	
FFING			-	CONTRACTOR OF THE CONTRACTOR O
THER PIECES	ent reserved men. : and the second se		SA193, Gr.	87
Cutlet Plang	615509		SA182. GK.	P316
Stud Note	ID65		SA194, Gr.	BACKER BEST AND REST OF THE PARTY OF THE PAR
Orain Nipple	462885		SA312, TVD	e 316

[&]quot;SUPPLEMENT SMEETS IN PORM OF LISTS SKETCHES OR GRADINGS MAY SE USED PROVIDED (1) SIZE IS 0-1/2 I 11"
(2) INFORMATION IN (TEMS 1 2 ON THIS GATA REPORT IS INCLUDED ON EACH SWEET, AND (3) EACH SMEET IS NUMBERED AND MUMBER OF SMEETS IS RECORDED AT TOP OF THIS FORM:

Attachment 2 Code Data Reports (Page 4 of 4)

	FORM NY-1 (BACK)
	CEATIFICATE OF COMPLIANCE
OF CONSTRUCTION OF THE ASME CODE FOR EDITION, ADDENDA SUTTEMET 1975	N THIS REPORT ARE CORRECT AND THAT THIS VALVE CONFORMS TO THE RULES NUCLEAR POWER PLANT COMPONENTS, SECTION 111, DIV. 1. 1974
DATE 5-20-85 SIGNED TWO, DE	Prince No. (Inc. av Prince Prince No. 10 A. Engineer
OUR ASME CERTIFICATE OF AUTHORIZATION SYNNOL EXPIRES Many 20, 1986 (DATE)	10 USE THE NV (HY)
	CENTIFICATION OF SEELEN
DESIGN IMPORMATION ON FILE AT	Dresser Plant, Alexandria, La.
TRESS ANALYSIS REPORT (CLASS) ONLY)	ON FILE AT Dresser Plant, Alexandria, La.
SESTEN SPECIFICATIONS CERTIFIED BY	W. W. Albert
E STATE Connecticut	466 MG 5333
TRESS REPORT CERTIFIED BY	Y. S. LAI
t state Louisiana	14105
SHATURE NOT REQUIRED-LIST NAME ONLY	
THE UNDERSIGNES, HOLDING A VALID CO.	CERTIFICATE OF SNOP IMPRECTION NHISSION ISSUED BY THE NATIONAL SOARS OF SOILER AND PRESSURE YESSE OF LOUISIANA AND EMPLOYED BY THE NARTFORD STEAD BOILER A CTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 277
SILANG STATE THAT TO THE BEST OF WE UNIF. OR VALVE. IN ACCORDANCE WITH THIS STATES THE SECONDANCE WITH THIS SONCERNING THE EQUIPMENT DESCRIBED IN SHALL BE LIABLE IN ANY BARRIER FOR ANY FROM OR COMMETTED WITH THIS INSPECTION	T EMBOLEDGE AMB BELIEF, THE M CERTIFICATE HOLDER HAS CONSTRUCTED THE ASSECTOR FOR MUCLEAR POWER PLANT COMPONENTS. THE INSPECTOR NOR HIS EMPLOYER MAKES ANY MAGRAMIY, EXPRESSED ON IMPLIFUL CATA REPORT, PUTHERMORE, MULTHER THE INSPECTOR NOR HIS EMPLOYED PERSONAL INJURY OR PROPERTY SANAGE OR A LOSS OF ANY ELAO ARISING
STAND STATE THAT TO THE BEST OF W UMP. OR YALVE, IN ACCORDANCE WITH THI IY SIGNING THIS CERTIFICATE, MEITHER OMCERNING THE EQUIPMENT DESCRIBED IN MALL OF LIABLE IN ANY BARMER PCR ANY	T EMBOLEDGE AMB BELIEF, THE M CERTIFICATE HOLDER HAS CONSTRUCTED THE ASSECTOR FOR MUCLEAR POWER PLANT COMPONENTS. THE INSPECTOR NOR HIS EMPLOYER MAKES ANY MAGRAMIY, EXPRESSED ON IMPLIFUL CATA REPORT, PUTHERMORE, MULTHER THE INSPECTOR NOR HIS EMPLOYED PERSONAL INJURY OR PROPERTY SANAGE OR A LOSS OF ANY ELAO ARISING



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

Owner Ent	Owner Entergy Operations, Inc. Name				Date July 1, 1991				
1340 Echelon Parkway, Jackson, MS 39213 Address				Sheet <u>1</u> of <u>7</u>					
Plant Waterford Name				Unit 3					
Hwy. 18, F	Hwy. 18, P.O. Box B. Killona, LA 70066 Address				A 0106	64718 P.O. No., Job	No		
	ned by Entergy Name O. Box B. Killo Address			Type Code Symbo Authorization N Expiration Date	lo	Not Applic			
Identificat	lon of System	RC (Reactor (Coolant						
				71 Edition, W					
(b) Applica W81 Add	ble Edition of lenda	Section XI Ut	Replace Na-	Other Identification	Replacement Co	omponents Repaired, Replaced, or	ASME Gode Stamped		
(b) Applica W81 Add Identificat	ble Edition of lenda ion of Componer Name of	Section XI Ut	Replace Na- tional Board	for Repairs or F	Replacement Co	omponents Repaired, Replaced, or	ASME Code Stamped		
(b) Applica W81 Add Identificat Name of Component	ble Edition of lenda ion of Componer Name of Manufacturer	Section XI Ut	Replace Na- tional Board No.	for Repairs or For Repairs	eplace ment Co Year Built	ments 198 <u>0</u> tomponents Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)		
(b) Applica W81 Add Identificat Name of Component RC-317B	ble Edition of lenda ion of Componer Name of Manufacturer Dresser	Manufacturer Serial No.	Na- tional Board No.	Other Identification Valve 1RC-R2574B	Year Built	ments 198 <u>0</u> tomponents Repaired, Replaced, or Replacement Replaced	ASME Code Stamped (Yes or No)		
(b) Applica W81 Add Identificat Name of Component RC-317B	Name of Manufacturer Dresser	Manufacturer Serial No. BS-08030	Replace Na- tional Board No.	Other Identification Valve 1RC-R2574B Valve 1RC-R2574B	Year Built 1979	Repaired, Replaced, or Replacement Replaced	ASME Code Stamped (Yes or No) No		

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

Remarks <u>See Attachm</u>	ent 2 (4 Pages) for Code Data Reports.
	CERTIFICATE OF COMPLIANCE
We certify th	at the statements made in the report are correct and this
replacement repair or replacement	_ conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp	None
igned DugfM Lil	ley . Maintenance Engineer Date July 1, 199
	CERTIFICATE OF INSERVICE INSPECTION
Soiler and Pressure Ves and employed by <u>Awkwri</u> inspected the component lovember 1989 to and belief, the Owner h	ding a valid commission issued by the National Board of sel Inspectors and the State or Providence of Louisiana ght Mutual Insurance Co.* of Norwood, MA have s described in this Owner's Report during the period May 1991, and state that to the best of my knowledge as performed examinations and taken corrective measures 's Report in accordance with the requirements of the ASME
varranty, expressed or lescribed in this Owner employer shard be liable	cate neither the inspector nor his employer makes any implied, concerning the examinations and corrective measures 's Report. Futhermore, neither the Inspector nor his e in any manner for any personal injury or property damage rising from or connected with this inspection.
Inspector's 8	Commissions 7822 N B I S IS Ignature National Board and Endersemen

^{*} Factory Mutual System

During plant operation, one of the pressurizer relief valves began to leak by its seat. A short maintenance outage was planned to replace both valves.

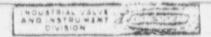
Under WA 01064718, pressurizer relief valve RC-317B (serial no. BS-08030) was replaced with a spare valve (serial no. BS-01593) during the maintenance outage. The spare valve had been refurbished and tested under WP035457 by the valve manufacturer, Dresser Industries, Inc. Upon return to service, the replacement was visually examined using the VT-2 method. The results were acceptable.

During the refueling outage under WA 01054797, the installed valve (serial no. BS-01593) was replaced with the original valve (serial no. BS-08030). The original valve had been refurbished and tested under WP035078 by the valve manufacturer, Dresser Industries, Inc.

Upon return to service, the valve was visually examined using the VT-2 method. The results were acceptable.

Copies of the Code Data Reports for the replacements are presented in Attachment 2. Certifications for the refurbishment by Dresser Industries, Inc. are filed in the following records:

PO WP035078 MIR M08067 WP035457 MRIR 0162-90 Attachment 2 Code Data Reports (Page 1 of 4)



FORW HYPE A CERTIFICATE HULDERS' DATA REPORT FOR SAFETY AND SAFETY RELIEF VILVES" (AS REQUIRED BY THE PROVISIONS OF THE ASME CODE, SECTION (11, 31Y, 1)

	en de la frances de détable de la con-			
TO TURBOTURED BY DRES	SER INDUSTRIAL VALVE & INSTR.	DIV. NICHEAY 21 NORTH A	LETANDRIA LOUI	11490
	(HAME AND ADDREST	S OF M DERTIFICATE HOLDE	R.	
. HAMUFACTURED FOR CO	mbustion Engineering It	nc., 1000 Prospect 1	Hill Rd. Wind	sor. CT 0605
	TION Boston Edison Co., I	Pilgrim Sta. Unit		
			19	79
(CRN)	3NCO47 ~	(HATL BRG NG.)	YEAR	BUTLI,
	X-1-XFML-NC047			
YALVE	V-7-VI LT - HPD41	IDENTIFTING HOS.	BY LEICATE HOLDER	15' SERIAL HO 1
TYPE Safety	CL.	155 1	MITTING NEGRET	
	PARETY CAPTTY RELIEF PILOT:	POWER ACTUATED)		
DRIFICE SIZE	351 HOMINAL I		OUTLET SIZE -	0
		INCH	200	INCH
. SET PRESSURE(PSIG)	2485	- RATED TEMPERATURE -	700	
STAMPED CAPACITY	504,874 L85/HR. #	3 % OVERPRESSURE F	ILONDONN(PSIG)	124
HYDROSIATIC TEST (P.	3220	GUTLET	750	
PRESSURE RETAINING		CAPPLICABLE	E TO VALVES FOR	CLUSED STATEMS
THE STATE RETAINING	SERIAL NO. OR IDENTIFICATION	MATERI INCL.	AL SPECIFICATION TYPE OR SHACE	
#00¥	AAA45	SA18	2 Gr. F316	
SONNET OR YORK	/9893	SALC		MANAGEMENT OF STREET
SUPPORT HOOS	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	market and otherwise to a summarior would be below	A. M	
MULLE.	AAA93	SA18	32. Gr. F347	NAME OF THE OWNER
0150	AA846		37 Gr. 688	
SPRING WASHERS	(Top) AAA27 (Bottom) A			
ADJUSTING SCREW	AAALB	NAME AND POST OF THE PARTY OF T	64 Class A	
SPINOLE	AAA36	CANADA DE LA CONTRACTOR DE	79 Or. 347	
5231MB	A25168		A A681 Type	4-12
BOLTING	A02		93. Gr. B7	
OTHER PIECES				
Outlet Flange	623787	SAL	82, Gr.F316	
	462885	SA3	12 Gr. 316	
Nipple	404003		Although you and the Built is not the beautiful to the party of the pa	THE RESEARCH STREET, SHIPPING AND ADDRESS OF THE PARTY OF

[&]quot;SUPPLEMENT SHEETS IN FORM OF LISTS SKETCHES OR DRAWINGS MAY BE USES PROVIDED (1) SIZE IS 8-1/2" X 11"
(2) IMPORMATION IN ITEMS !- 2 ON THIS DATA REPORT IS INCLUDED ON EACH SMEET, AND (3) EACH SHEET IS HUMBERED AND HUMBER OF SHEETS IS RECORDED AT 13P OF THIS FORM.

Attachment 2 Code Data Reports (Page 2 of 4)

FOR NA	5404		
JENTAFICATE	OF COMPLIANCE	and the second second second	-
THE DESTRICTION OF THE ASME CODE FOR MUCLEAR PORE SUITION, ADDENDA (DATE) DATE 1-25-79 SIGNED Dresser TVID (N DERTIFICATE HOLDE COME ASME CERTIFICATE OF AUTHORIZATION NO. STWOOL EXPIRES (DATE)	IN PLANT COMPONENTS.	Allowitzy Assura	1974
DESIGN INFORMATION ON FILE AT Dresser	AVION OF DESIGN	ria la	
STRESS ANALYSIS REPORT (CLASS ONLY) ON FILE AT	Dresser Plan	t, Alexandria, La	1.
DESIGN SPECIFICATIONS CERTIFIED BY U. H. A.	lbert REG. NO.	6333	
STREES REPORT CERTIFIED avi Y. S. Lai	AEG. NO.	14105	
SIGNATURE NOT REQUIRED-LIST MANG ONLY			•
CERTIFICATE 1. THE UNDERSIGNED, HOLDING A VALID COMMISSION ISS 10. SPECTORS AND THE STATE OR PROVINCE OF LOUISIANA CONNANT OF HARTFORD, COMM, HAVE INSPECTED THE PUR 10. 70, AND STATE THAT TO THE BEST OF MY KNOWLEDGE PURP, OR VALVE, IN ACCORDANCE WITH THE ASME CODE BY SIGNING THIS CERTIFICATE, NEITHER THE INSPECTO CONCERNING THE EQUIPMENT DESCRIPED IN THIS DATA R	AND RESPONDENCE OF THE MERCE OF	L BOARD OF BUILER AND E HARTFORD STEAM BOIL. ED IN THIS DATA REPORT ERTIFICATE HOLDER HAS PLANT COMPONENTS. MAKES ANY BARRAMIY, EXP ETTHER THE IMSPECTOR H	CONSTRUCTED THE
SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL IN FROM OR CONNECTED WITH THIS IMPRECION. OATE 1-26 19 79 SIGNED FOR THE TOTAL THE PERSONAL IN		Louisiana 672	KING ARISING

Attachment 2 Code Data Reports (Page 3 of 4)

INDUSTRIAL VALVE

FORM NY-1 M CERTIFICATE MOLDERS' DATA REPORT FOR "AFETY AND SAFETY RELIEF VALVES" (AS REQUIRED BY THE PROVISIONS OF THE ASKE CODE, SECTION 1:1, DIV. 1)

. WAMUFACTURED BY DRE	SSER INGUSTRIAL VALV	AND ADDRESS D	IV. HIGHWA	Y 71 HOMEN	ALEXANDRIA LONI	BIANA
MARKETTURES SON B	abcock & Wilco	POT CON	Dis.	P O Box	1760	
. MANUFACTURED FOR	(NAME	AND ADDRESS D	OF PURCHAS	ER OR ORNER	Legu. Lynchb	UFR. VA 2450
. LOCATION OF INSTALL	TION Washington	Public Pow	ver Supp	1 V System	LIDDER LIND	111 0100
	(CANE	WMB WDDEF22)	Hanford	Works I	tichland Use	h 00363
	4CP-229			318	1	978
(CRN)	(GRAVING NO	.)	AM)	T'L BRD NG.	1 (YEAR	BUILT)
. VALVE 6" 31709NA						
(MODE	L NO., SERIES HO.)			(N CE	RTIFICATE HOLDER	3' SERIAL MO Y
Tree Saf	ety	CLASS	1			
	(SAFETY, SAFETY REL	HEF; PILOT; POW	MER ACTUAT	ED)	randers or at any an artist and	TO Make the State of the State
CRIFICE SIZE2	. 351	MERINAL INCE	ET SIZE	6"	DUTLET \$128	8"
				INCH		(SSR)
SET PRESSURE (PSIG)	2500		RATED T	EMPERATURE_		
STAMPED CAPACITY	507.918					198
A. C.	SAT, STEAM	**************************************				And in case of the last test of the last
		2750			100	American services
MYDROSTATIC TEST (PS	(18) INLET	37.30	0	UTLET	1050 TO VALVES FOR C	-
PRESSURE RETAINING !	I E C E S			/actriments	IN TACALS FOR C	FORED SARLEMY DI
	SERIAL P				L SPECIFICATION	
	IDEMITE	CELION		INCL.	TYPE OR GRADE	
200Y	AAA34		Total State and Description	SA-18	2 Gr. F316	-
BONNET OR YORE	122T238	THE STORY CONSTRUCTION OF THE PARTY.		SA-10	NAMED OF THE OWNER, AND ADDRESS OF THE PARTY	THE OWNER OF THE OWNER.
SUPPORT HODS		THE RESERVE OF THE PERSON NAMED IN		a to the transaction of the second	Macroscope	
MOZZLE	AAA69			SA-18	2 Gr. F347	
DIZC	AAB18				A-637 Gr. 688	3
SPRING WASHERS	122T238 (top)	213378	(bottom)	SA-10	5	No. of the last of
ADJUSTING SCREW	M6591BG				B-164	
SPINOLE	AAA42		PERSONAL PROPERTY AND INC.		9 Cr. 347	
SPRING	72499		-	TO SECULO MEDICAL PROPERTY OF THE PARTY OF T	H-21	
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Bonnet Nuts	DC44		-		4 Gr. 2H	-
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"SUPPLEMENT SHEETS IN FORM OF LISTS, SKETCHES OR DRAWINGS MAY BE USED PROVIDED (1) SIZE IS 8-1/2" X 11"
(2) INFORMATION IN ITEMS 1-2 ON THIS DATA REPORT IS INCLUDED ON EACH SHEET, AND (3) EACH SHEET IS HUMBERED AND MUMBER OF SHEETS IS RECORDED AT TOP OF THIS FORM.



Attachment 2 Code Data Reports (Page 4 of 4)

	FORM NV. I (BACK)
	CERTIFICATE OF COMPLIANCE
	11111.14
	IFICATE HOLDER) Principal Q.A. Engineer
OUR ASME CERTIFICATE OF AUTHORIZATION	The state of the s
STREOL EXPIRES May 20, 1980	(NV)
(DATE)	
	CENTIFICATION OF DESIGN
	Dresser Plant, Alexandria, Lo.
STREES AMALYSIS REPORT (CLASS (DMLY)	ON FILE AT Dresser Plant, Alexandria, La.
DESIGN SPECIFICATIONS CERTIFIED BY	REB. NO. 4418
STRESS REPORT CERTIFIED BY	Y. S. Lai
PE STATE Louisiana	REG. NO. 14105
SIGNATURE NOT REQUIRED-LIST HAME ONLY	4
1. THE UNDERSIGNED, HOLDING A VALID CO	CERTIFICATE OF SHOP INSPECTION DWISSIOM ISSUED BY THE MATIONAL BOARD OF BOILER AND PRESSURE YESSEL OF LOUISIANA AND EMPLOYED BY THE HARTFORM STEAM SOILER ! E 1
COMPANY OF HARTFORD, COMM. HAVE INSPETIBLE. AND STATE THAT TO THE BEST OF M	ECTED THE PURP OR VALVE DESCRIPED IN THIS DATA REPORT ON 4-12 AT EMODILEDGE AND BELIEF, THE H CERTIFICATE HOLDER HAS CONSTRUCTED THIS RE ASME CODE FOR MUCLEAR POTER PLANT COMPONENTS.
CONCERNING THE EUUIPMENT DESCRIBED IN	THE IMPRECTOR NOR HIS EMPLOYER MARES ANY TARRAMY, EXPRESSED OR IMPLIES TH'S DATA REPORT, FUTHERWORE, HETTHER THE IMPRECTOR MOR MIS EMPLOYER PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY EIND ARISING
	QM/
DATE ADTIL 12 19 78	CONNISSIONS National Board 7876

DOCUMENT REVIEWED
MAY 8 1978

By 15 V

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

D-	AND DESCRIPTION OF THE PARTY OF	As Required	morande receive	COUR OF	the ASME Code s	GCCTO1	томентирования возвитие 1 У Т		
ı.	OwnerEnte	ergy Operations Name	. Inc.	-	Date July 1, 1991				
	1340 Echelon Parkway, Jackson, MS 39213 Address				Sheet 1 of 3				
2	Flant Waterford Name				Unit 3				
	Hwy. 18, P.O. Box B. Killona, LA 70066 Address				WA 99000399 (Repair Organiza				
3.		Nama D. Box B. Killo Address			Type Code Symbo Authorization N Expiration Date	la.	Not Applie		
4.	Identificati	on of System	RC (Reactor C	loolant					
5.	(b) Applicab	ole Edition of	Section XI Uti	(lized)	9 <u>7)</u> Edition, Wifor Repairs or F	Replace	ements 198 <u>0 1</u>		
	Name of Component	Name of Manufacturer	Manufacturer Serial No	Na- tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
	RCP-2A	vron- ackson	711-N-0175	NA	Reactor Coolant Pump	1978	Repaired	No	
	RCP-2A	Byron- Jackson	711-N-0175	NA	Reactor Coolant Pump	1978	Partial Replacement	No	
7 3	Description	on of Work <u>Se</u> ducted: Hydro Other	static []	l (1 Pa	tic [] Norm		rating Press	ure II	
-0	l) size is 8	mental sheets i 1/2 in. X 11 i	n form of list	ts, ske	tches, or drawing in items 1 through	ngs ma ugh 6	y be used, p on this repo	rt is	

recorded at the top of this form.

The state of the s	ORM NIS-2 (Back)
Remarks None	
CERTI	FICATE OF COMPLIANCE
We certify that the state	ments made in the report are correct and this
repair & replacement conforms repair or replacement	to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp None	
Signed DuckM Filley	Not Applicable Expiration Date <u>Not Applic/ble</u> , Maintenance Engineer Date July 1, 1991
CERTIFICAT	E OF INSERVICE INSPECTION
Boiler and Pressure Vessel Inspecto and employed by <u>Awkwright Mutual I</u> inspected t' components described November 1. to <u>May 1991</u> and belief, the Owner has performed	commission issued by the National Board of rs and the State or Providence of Louisiana nsurance Co.* of Norwood, MA have in this Owner's Report during the period, and state that to the best of my knowledge examinations and taken corrective measures accordance with the requirements of the ASME
warranty, expressed or implied, con described in this Owner's Report. employer shall be liable in any man	the inspector nor his employer makes any cerning the examinations and corrective measures Futhermore, neither the Inspector nor his ner for any personal injury or property damage or connected with this inspection.
Tax Onffr	Commissions 7822 N B I S IS

Date July 1, 1991

^{*} Factory Mutual System

During a forced outage in October 1990, a leak was found at the casing gasket on Reactor Coolant Pump 2A, RCP-2A. The pump was disassembled during Refuel 4 for repairs. Subsequent inspection revealed erosion on the driver mount bottom flange. The upper surface was eroded in the heat exchanger seating surface. The lower surface was eroded around the keyways and casing stud holes. The lower surface did not meet the flatnoss criteria specified by the pump manufacturer, Byron-Jackson.

Engineering evaluated the conditions and determined that the heat exchanger seating surface would be repaired and the flatness criteria would be restored. Prior to welding, the excavated cavity was examined using the magnetic particle MT) method and was found acceptable. Weld repairs were performed by PCI Energy Services. Preheating operations were performed by Cooperheat, Inc.

After being machined to meet the flatness criteria, the repaired area was examined using the magnetic particle (MT), dye penetrant (PT) and ultrasonic test (UT) methods and was found acceptable. The repair was exempt from hydrostatic pressure testing per IWA-4400(b)(3). Upon return to service, the pump flange was visually examined at operating pressure. The VT-2 results were acceptable.

To provide for additional inspection capability in the future, the casing stud elongation holes were extended to a depth of 32 inches under design change DC-3340. This repair is documented under NIS-2 91-025.

The casing studs and nuts and the heat exchanger studs and nuts were replaced. The replacement casing studs were pre-drilled with the 32 inch elongation hole. The preservice examinations were performed in accordance with IWA-7530.

The certifications for the replacements are filed in the following records:

P.O. L84666 MRIR 5575-86 (heat exchanger studs and nuts) WP037551 MIR M03255 (casing studs and nuts)

FORM NIS-2 OWNER'S REPORT FOR RUPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1340 Echele	n Parkway, Jack	son MS 39213		Sheet 1 of	3		
APAY ECHEAN	Address	farment.	Sheet 1 of 3				
Plant Wat	erford Name		_	Unit 5			
Hwy. 18, P.O. Box B. Killona, LA 70066 DC-3340 WA 99003340 Address Ropair Organization P.O. No., Job No.					No.		
Work Perfor	Type Code Symbol Stamp None Authorization No. Not Applicable Expiration Date Not Applicable						
Identificat	ion of System	RC (Reactor (Coolant				
(b) Applica W81 Add	ble Edition of	Section XI Uti	lized i	PZI Edition, WZ For Repairs or R	teplace	ements 198 <u>0</u>	
Name of	Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)
Component	Byron-	711-N-0173	NA	Reactor Coolant Pump	1978	Repaired	No
RCP-1A	Jackson			Coolant rump			
		711-N-0174	NA	Reactor Coolant Pump	1978	Repaired	No
RCP-1A	Jackson Byron-	711-N-0174 711-N-0175	NA NA	Reactor	1978	Repaired	No No
RCP-1A	Jackson Byron- Jackson Byron-			Reactor Coolant Pump Reactor			

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

Remarks None		
Printed by the first particular and a second particular and a second		
	CERTIFICATE OF COMPL	LIANCE
We certify	that the statements made in t	the report are correct and this
repair repair or replacemen	conforms to the rules of	f the ASME Code, Section XI.
Type Code Symbol Stam	p None	
Signed Dugtim	21.10	Expiration Date <u>Not Applicab</u>
	CERTIFICATE OF INSERVICE	INSPECTION
Boiler and Pressure V and employed by <u>Awkw</u> inspected the compone November 1989 to and belief, the Owner	essel Inspectors and the Stat right Mutual Insurate Co.* nts described in this Owner's May 1991 , and state has performed examinations a	
warranty, expressed o described in this Own employer shall be lia	er's Report. Futhermore, nei ble in any manner for any per arising from or connected wi	aminations and corrective measures ither the inspector nor his rsonal injury or property damage ith this inspection.
Inspectory	Signature	ions 7822 N B I S IS National Board and Endorsement
Date July 1, 1991		

^{*} Factory Mutual System

Design change DC-3340 was implemented during Refuel 4 to provide additional inspection capability for Reactor Coolant Pump (RCP) studs. The length of the elongatio holes down the lencer of the studs was increased from 24 inches to 32 inches. Ultrasonic ('.T) examination of the studs from the elongation holes can be performed for the portion of the stud below the casing joint. Studerosion due to casing gasket leakage could be more accurately measured if the gasket were to leak in the future. This information would be a vital part of the operability evaluation on a pump with a gasket leak.

The elongation holes in the studs on RCP-1A, RCP-1B and RCP-2B were drilled with the studs under tension in the pump. The new studs installed in RCP-2A were drilled prior to installing the studs. The installation of the replacement studs in RCP-2A is documented under NIS-2 91-024.

After drilling the holes deeper, the studs in RCP-1A, RCP-1B and RCP-2B were examined in-place using the ultrasonic (UT) method and were found acceptable. The replacement study for RCP-2A were examined using the visual (VT-1) and ultrasonic (UT) examination methods. The results were acceptable.

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

Owner _Ente	Entergy Operations, Inc.			Date July 1, 1991			
1340 Echelon Parkway, Jackson, MS 39213 Address			Sheet 1 of 3				
PlantWaterford Name Hwy. 18. P.D. Box B. Killona, LA 70066 Address			Unit 3 WA 01076557 CI 274685 Repair Organization P.O. No., Job No.				
Hwy. 18. P.C). Box B. Killo Address	pa, LA 70066	-				
Identificat	ion of System	FW (Feed Ware	(<u>r)</u>				
(a) Applicab (b) Applicab W81 Adds	ole Edition of	n Code <u>Sec II</u> Section XI Uti	LNC 19	71 Edition. W7 For Repairs or F	2 Adde	nda. <u>NA</u> Code ments 198 <u>0</u>	Case hrough
Identificati	ion of Componen	ts Repaired or	Replac	ed and Replaces	ment Co	omponents	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)
2FW20-12A-6	Dravo Corp.	8554	NA	2FW18-40A	1982	Repaired	No

Description	on of Work <u>Se</u>	e Attachment	1 (1 Pa	ge)			
	lucted: Hydro	static П	Pneuma	tie D Norm	al Ope Test	rating Press	ure []
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Remarks None	
	CERTIFICATE OF COMPLIANCE
We cer	tify that the statements made in the report are correct and this
repair repair or repla	conforms to the rules of the ASME Code, Section XI.
Type Code Symbol	Stamp None
Certificate of A	Maintenance Engineer Date July 1, 1991
n (a Amerika e e e a Amerika de de esta de la Amerika de Amerika de Amerika de Amerika de Amerika de Amerika d	CERTIFICATE OF INSERVICE INSPECTION
Boiler and Press and employed by inspected the co November 1989 and belief, the	ed, holding a valid commission issued by the National Board of ure Vessel Inspectors and the State or Providence of Louisiana Awkwright Mutual Insurance Co.* of Norwood, MA have mponents described in this Owner's Report during the period to May 1991, and state that to the best of my knowledge Owner has performed examinations and taken corrective measures s Owner's Report in accordance with the requirements of the ASME
warranty, expres described in thi employer shall b	certificate neither the inspector nor his employer makes any sed or implied, concerning the examinations and corrective measures sowner's Report. Futhermore, neither the Inspector nor his eliable in any manner for any personal injury or property damage wind arising from or connected with this inspection. Commissions 7822 N B I S IS
Inspec	
Date July 1, 19	

^{*} Factory Mutual System

Upon removal of the pipe clamp FWSH-001 for the ultrasonic examination (UT) of weld 45-002, a gouge was discovered in pipe 2FW18-40A. The wall thickness at the gouge was measured using an ultrasonic thickness measurement technique. A stress calculation was performed using the actual wall thickness at the gouge. The stress values complied with ASME Section IZ! Subsection NC 1971 edition through winter 1971 addenda requirements.

The gouge was blended into the surrounding area and weld repaired. The repair was examined using the magnetic particle (MT) technique and found acceptable.

The repair was exempt from hydrostatic pressure testing per IWA-4400(b)(3).

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

	Owner Entersy Operations, Inc. Name				Date July , 1991				
	1340 Echelon	Parkway, Jack Address	son. MS 39213		Sheet of	1			
	Plant <u>Wate</u>	rford Name			Unit 3				
	Hwy. 18, P.O. Box B. Killona, LA 70066 Address				DC-3162 WA 99000404 CI 273576 & CI 273699 Repair Organization P.O. No., Job No.				
	Hwy 18, P.O	ed by Entergy Name Box B. Killo Address on of System	na. LA 70066		Type Code Symbo Authorization N Expiration Date	0.	Not Applic		
	(a) Applicab (b) Applicab %81 Adde	le Constructio le Edition of nda	n Code <u>Sec II</u> Section XI Uti	I NB 19	9 <u>71</u> Edition, <u>W7</u> for Repairs or F	teplace	ments 198 <u>0 :</u>	Case	
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Na- tional Board No.	Other Iden ification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe (Yes or No)	
	1RC2-50A/B-1	Tompkins- Beckwith	NA	NA	Pipe spool	1982	Repaired	No	
-			AND DESCRIPTION OF THE PARTY OF						
					Andready Control of the Control of t		And the second state of th		
	Descriptio		e Attachment	Pneuma	tic ∏ Norm	al Ope	rating Press	ure []	

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District Statement and district statement	
	CERTIFICATE OF COMPLIANCE
We certify	y that the statements made in the report are correct and this
repair repair or replaceme	
Type Code Symbol Sta	amp None
Signed Duggett	Hilley Maintenance Engineer Date July 1, 1991
	CERTIFICATE OF INSERVICE INSPECTION
Boiler and Pressure and employed by <u>Awk</u> inspected the compon November 1989 to and belief, the Owne	holding a valid commission issued by the National Board of Vessel Inspectors and the State or Providence of Louisiana wright Mutual Insurance Co.* of Norwood, MA have nents described in this Owner's Report during the period May 1991 , and state that to the best of my knowledge or has performed examinations and taken corrective measures wher's Report in accordance with the requirements of the ASME
warranty, expressed described in this Ow employer shall be li	or implied, concerning the examinations and corrective measures mer's Report. Futhermore, neither the Inspector nor his able in any manner for any personal injury or property damage arising from or connected with this inspection.
Nas?	Commissions 7822 N B I S IS

* Factory Mutual System

Design Change DC-3162 was implemented during Refuel 4 to provide a second independent, continuous reactor coolant system (RCS) level indication to monitor RCS level during reduced inventory condition. As part of this modification, line 1RC2-50A/B was shortened from 9 inches to 3 inches between valves RC-106 and RC-107. The original pipe was shortened and valve RC-107 was reinstalled.

The replacement welds on valve RC-107 were examined using the visual, dye penetrant (PT) and radiographic cest (RT) methods. The outlet weld, DC-3162-V-8.5-1001-239-FW1, was acceptable. The radiograph on the inlet weld, DC-3162-LW3-RC-19-FW1, was unacceptable. The inlet weld was removed and replaced with weld DC-3162-LW3-RC-19-FW1-A. The replacement weld was examined using the visual, dye penetrant (PT) and radiographic test (RT) methods. The weld exhibited a visual weld defect. The weld was repaired and examined using the visual and dye penetrant (PT) methods. The results were acceptable.

The inlet replacement weld to valve RC-107 was pressure tested in accordance with IWA-4400(a). The VT-2 results were acceptable.

No replacement parts were required.