

FPL Energy Seabrook Station P.O. Box 300 Seabrook, NII 03874 (603) 773-7000

JAN 29 2004

<u>Docket No. 50-443</u> NYN-04004

United States Nuclear Regulatory Commission Attn.: Document Control Desk Washington, D.C. 20555-0001

#### Seabrook Station <u>Inservice Inspection Examination Report</u>

Enclosed is the FPL Energy Seabrook, LLC (FPLE Seabrook) Inservice Inspection Examination Report for inspections conducted prior to and during the ninth refueling outage that concluded on October 29, 2003. The enclosed report is submitted pursuant to the requirements of paragraph IWA-6240 of the 1995 Edition (including the 1996 addenda) of Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code. Additionally, a copy of this letter and the enclosed report are being submitted to the State of New Hampshire.

Should you have any questions regarding this information, please contact Mr. Michael Ossing, Engineering Support Manager, at (603) 773-7512.

Very truly yours,

FPL Energy Seabrook, LLC

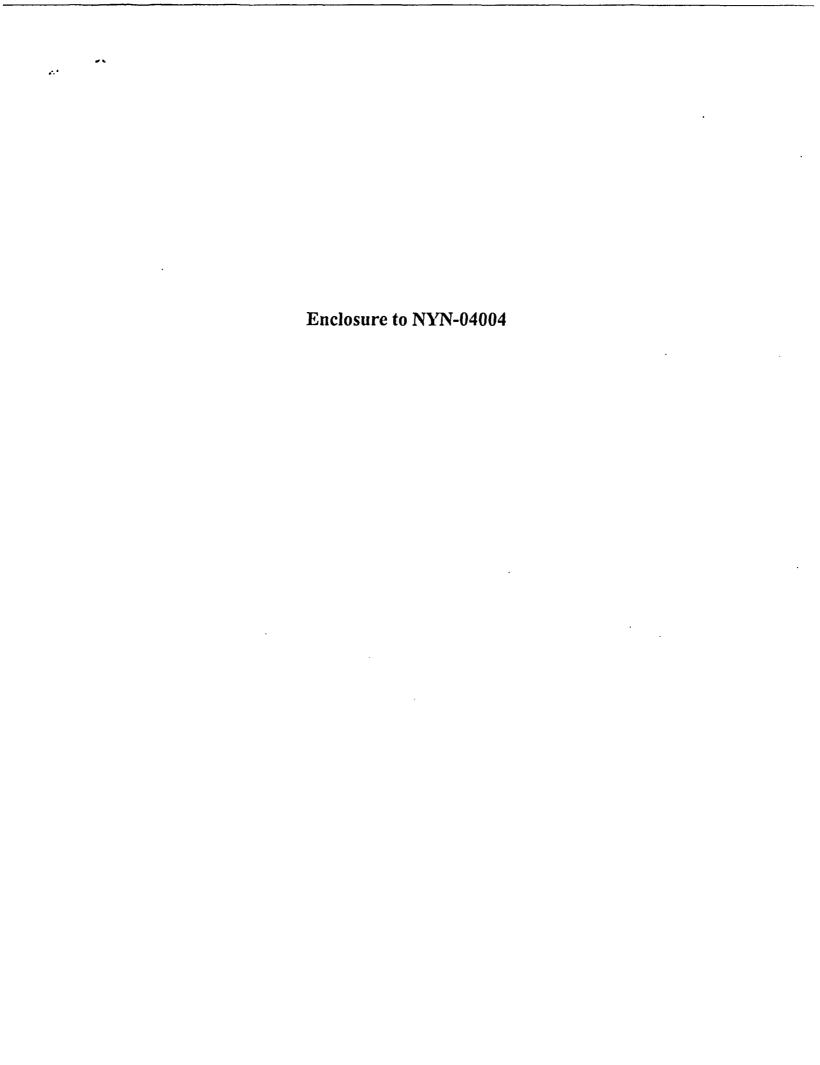
James M. Peschel

Regulatory Programs Manager

A047

United States Nuclear Regulatory Commission

NYN- 04004/Page 2 H. J. Miller, NRC Region I Administrator V. Nerses, NRC Project Manager, Project Directorate I-2 G.T. Dentel, NRC Senior Resident Inspector Wayne Brigham, Boiler Inspector New Hampshire Department of Labor Inspection Division PO Box 2076 Concord, NH 03302-2076



	FORM OAR-1 OWNER'S ACTIVITY REPORT
Report Number:	ISI-SBK-2003
	FPL Energy Seabrook, LLC P.O. Box 14000 700 Universe Boulevard Juno Beach, FL 33408-0420
	FPL Energy Seabrook P.O. Box 300 Seabrook, NH 03874
Unit No. 1	Commercial service date August 19, 1990 Refueling outage no. OR09
Current inspection in	terval 2 <sup>nd</sup> Interval (1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , other)
Current inspection p	eriod 1 <sup>st</sup> Period (1 <sup>st</sup> , 2 <sup>sd</sup> , 3 <sup>rd</sup> )
Edition and Addenda	of Section XI applicable to the inspection plan 1995 Edition with 1996 Addenda
Date and revision of	Inspection plan August 15, 2003 Revision 08
Edition and Addenda	n of Section XI applicable to repairs and replacements, if different than the inspection plan
<u> </u>	CERTIFICATE OF CONFORMANCE
	nents made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, s, and corrective measures represented in this report conform to the requirements of Section XI.
Certificate of Authorizat	ion No. N/A Expiration Date N/A
Signed Kenn	A. Withey Sr. Engineer Date January 20, 2004 Owner or Owner's Designed, Title
	CEDITIES ATE OF INCEDIMENT INCREMENTAL
I, the undersigned, holding and the State or Province Harring, CT	ng a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of New Hampshive and employed by 45BCT of have inspected the items described in this Owner's Activity Report, during the period to 10-26-03, and state that to the best of my knowledge and belief, the
Owner has performed all By signing this certific examinations, tests, repa	activities represented by this report in accordance with the requirements of Section XI. ate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the irs, replacements, evaluations, and corrective measures described in this report. Furthermore, neither ployer shall be liable in any manner for any personal injury or property damage or a loss of any kind d with this inspection.
KW Down Inspector's S	ignature Commissions NH 709 N, I  National Board, State, Province, and Endorsements
Date 1-22-04	

#X

#### TABLE 1 ABSTRACT OF EXAMINATIONS AND TESTS

SBK - 2<sup>nd</sup> Interval, 1<sup>st</sup> Period

Examination Category	Total Examinations Required for The Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date for The Interval	Remarks
B-A	24	4	100%*	17%	Relief Request 2IR-1 applied.
B-B	5	2	100%*	40%	Required percentage amended by Code Case N-598.
B-D	44	6	100%*	14%	Percentage acceptable per IWB-2412 (a)(2).
B-F	Included in the Ris	k-Informed ISI Pro	gram.		See Category R-A.
B-G-1	241	54	100%*	22%	
B-G-2	74	25	100%*	34%	
В-Н	Category B-H item	s are included with	Category B-K.	<u>,                                     </u>	
B-J		k-Informed ISI Pro			See Category R-A.
В-К	1	0	0%	0%	Percentage acceptable per IWB-2412 (a)(5). Relief Request 2IR-12 applied.
B-L-1	There are no B-L-1	l pump casing weld	s.		
B-L-2	1	0	0%	0%	Percentage acceptable per IWB-2412 (a)(4).
B-M-1	There are no B-M-	1 valve body welds	•		
B-M-2	6	3	100%*	50%	Percentage acceptable per IWB-2412 (a)(4). One of each group required when disassembled.
B-N-1	3	1	100%*	33%	
B-N-2	6	0	0%	0%	Percentage acceptable per IWB-2412 (a)(3).
B-N-3	1	0	0%	0%	Percentage acceptable per IWB-2412 (a)(3).
B-O	2	1	100%*	50%	Percentage acceptable per IWB-2412 (a)(3) and IWB-2412 (a)(5).
B-P	7	3	100%*	43%	Required each refueling outage.
B-Q	Steam Generator to	ıbing is examined i	n accordance with Plan	nt Technical Specifica	ations.
C-A	16	4	100%*	25%	

•

TABLE 1
ABSTRACT OF EXAMINATIONS AND TESTS (continued)

SBK - 2<sup>nd</sup> Interval, 1<sup>st</sup> Period

Examination Category	Total Examinations Required for The Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date for The Interval	Remarks
С-В	7	2	100%*	29%	
C-C	5	2	100%*	40%	Required percentage amended by Code Case N-598.
C-D	There are no catego	ory C-D items.			
C-F-1	137	37	100%*	27%	
C-F-2	157	46	100%*	29%	
C-G	There are no catego	ory C-G items.			
C-H	24	24	100%*	33%	Required each Period.
D-A	90	15	100%*	17%	
D-B	17	17	100%*	33%	Required each Period. Code Case N-498-4 applied to hydrostatic tests.
E-A	161	161	100%*	33%	Required each Period per 10CFR50.55a(b)(ix)(E).
E-C	6	0	0%	0%	Locations identified in Period 1 and require examination in Period 2 and Period 3.
E-D	3	1	100%*	33%	
E-G	16	8	100%*	50%	Required percentage amended by Code Case N-598.
F-A	192	74	100%*	39%	Required percentage amended by Code Case N-598.
L-A	24	24	100%*	100%	Required every 5 years per IWL-2410(a).
R-A	72	24	100%*	33%	Risk-Informed Relief Request approved by NRC TAC No. MB1799.

<sup>\*</sup> Annotates the end of Period 1 in Interval 2, whereby 100% of scheduled examinations were completed.

'n

## TABLE 2 ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE

			Flaw	Flaw or Relevant Condition Found
Examination	Item	Item	Characterization	During Scheduled Section XI
Category	Number	Description	(IWA-3300)	Examination or Test (Yes or No)

There were no flaws or relevant conditions that required evaluation for continued service.

r				DI D. I		<del></del>
Code Class	Repair, Replacement, or Corrective Measure	ltem Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
3	☐ Repair ☑ Replacement ☐ Corrective Measure	SW-1827	Bolting Replacement	CHECK IF YES	6/10/2002	00W000740
3	☐ Repair ☑ Replacement ☐ Corrective Measure	SW-V-25	Service Water Valve Replacement	CHECK IF YES ☐	6/18/2002	00W001426
3	□ Repair     □ Replacement     □ Corrective Measure	DG Pipe Flange	Base Metal Repair of Pipe Flange	CHECK IF YES □	7/1/2002	00W001984
3	□ Repair     □ Replacement     □ Corrective Measure	DG-SKD-7B	Reattachment of Skid Mounted Pipe Support	CHECK IF YES □	7/1/2002	00W001984
3	Repair Replacement Corrective Measure	SW-V-70	Flange Bolting Replacement	CHECK IF YES □	6/28/2002	00W002085
3	☐ Repair ☑ Replacement ☐ Corrective Measure	SW-V-68	Flange Bolting Replacement	CHECK IF YES □	6/28/2002	00W002086
3	☐ Repair ☑ Replacement ☐ Corrective Measure	CC-V-176	Replacement of Pipe to Valve Flange Bolting	CHECK IF YES □	6/18/2002	00W002414
3	□ Repair     □ Replacement     □ Corrective Measure	SF-E-15C	Lay-up of Alternate Spent Fuel Pool Heat Exchanger	CHECK IF YES □	5/20/2003	0100073
3	□ Repair     □ Replacement     □ Corrective Measure	SW-P-(Spares)	Machining of Stuffing Boxes	CHECK IF YES □	6/25/2002	0100419
2	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11A	Replacement of Secondary Manway Cover & Bolting	CHECK IF YES	6/2/2002	0105433
3	⊠ Repair     □ Replacement     □ Corrective Measure	4000-SG-44	Base Metal Repair of Pipe Support	CHECK IF YES	9/4/2002	01B8792
3	⊠ Repair     □ Replacement     □ Corrective Measure	777-RG-5	Attachment of I&C Support PB-182-3951	CHECK IF YES	9/26/2002	01C2021
3	☐ Repair ☑ Replacement ☐ Corrective Measure	SW-V-12	Replacement of SW-V-12	CHECK IF YES	7/22/2002	01C2503

SBK - 2<sup>nd</sup> Interval, 1st Period

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
3	☐ Repair ☐ Replacement ☐ Corrective Measure	SW-1802	Bolting Replacement on Pipe Flange	CHECK IF YES	7/22/2002	01C2503
3	□ Repair     □ Replacement     □ Corrective Measure	777-RG-5	Attachment of I&C Support PB-182-3950	CHECK IF YES	9/30/2002	01C2653
2	☐ Repair ☑ Replacement ☐ Corrective Measure	4002-RG-29	Bolting Replacement for Support 4002-RG-29	CHECK IF YES □	10/3/2002	01C3571
3	☐ Repair ☑ Replacement ☐ Corrective Measure	SW-1806 & SW-1813	Bolting Replacement on Pipe Flanges	CHECK IF YES □	6/11/2002	01C3781
2	□ Repair     □ Replacement     □ Corrective Measure	MS-PV-3004	Replacement and Machining of Plug Assembly	CHECK IF YES □	10/3/2002	01W000816
2	□ Repair     □ Replacement     □ Corrective Measure	CBS-P-9B	Bolting Replacement	CHECK IF YES □	6/18/2002	01W000818
3	□ Repair     □ Replacement     □ Corrective Measure	FW-V-64	Disc Replacement for Valve FW-V-64	CHECK IF YES □	8/2/2002	01W001064
3	□ Repair     □ Replacement     □ Corrective Measure	FW-V-70	Disc Replacement for Valve FW-V-70	CHECK IF YES □	8/2/2002	01W001065
2	⊠ Repair     □ Replacement     □ Corrective Measure	FW-V-94	Disc Replacement for Valve FW-V-94	CHECK IF YES	9/20/2002	01W001479
3	☐ Repair ☑ Replacement ☐ Corrective Measure	CC-TV-2171-1	Bolting Replacement Valve to Pipe Flange	CHECK IF YES □	7/15/2002	01W001520
3	☐ Repair ☑ Replacement ☐ Corrective Measure	CC-TV-2171-1	Bolting Replacement Valve to Pipe Flange	CHECK IF YES	7/15/2002	01W001521
3	□ Repair     □ Replacement     □ Corrective Measure	1-DG-E-42B	Replacement of Tube Bundle	CHECK IF YES	6/4/2002	01W001583
2	□ Repair     □ Replacement     □ Corrective Measure	CBS-1206	ECCS Pipe Venting Enhancements	CHECK IF YES □	8/6/2002	01W001918
			<del></del>			

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
2	□ Repair     □ Replacement     □ Corrective Measure	1206-SG-1	Temporary Removal of Pipe Support	CHECK IF YES ☐	8/6/2002	01W001918
2	□ Repair     □ Replacement     □ Corrective Measure	4609-SG-10	FW Support 4609-SG-10 Redesign	CHECK IF YES □	9/19/2002	01W001998
1	Repair Replacement Corrective Measure	2-RC-P-(spare)	Replacement of Seal Housing Bolting	CHECK IF YES □	6/25/2002	01W002205
2	Repair Replacement Corrective Measure	MS-V-393	MS-V-393 & Piping Replacement	CHECK IF YES ☐	8/19/2002	01W003101
3	□ Repair     □ Replacement     □ Corrective Measure	4000-SG-42A	Support Member Removal & Reinstallation	CHECK IF YES □	8/19/2002	01W003101
2	☐ Repair ☑ Replacement ☐ Corrective Measure	MS-V-394	MS-V-394 & Piping Replacement	CHECK IF YES □	6/18/2002	01W003103
3	Repair Replacement Corrective Measure	4001-SG-51A	Support Member Removal & Reinstallation	CHECK IF YES □	6/18/2002	01W003103
3	Repair Replacement Corrective Measure	CC-P-322B	Installation of Retaining Screws	CHECK IF YES □	6/4/2002	0205352
3	□ Repair     □ Replacement     □ Corrective Measure	CC-P-322A	Installation of Retaining Studs & Nuts	CHECK IF YES	4/17/2003	0208528
1	Repair Replacement Corrective Measure	RC-V-124	Bonnet & Stem Replacement for Valve RC-V-124	CHECK IF YES	6/3/2002	0209446
3	Repair Replacement Corrective Measure	1-DG-V-29B	DG Lube Oil Temp Control Valve Enhancements	CHECK IF YES □	8/5/2002	0210754
3	⊠ Repair     □ Replacement     □ Corrective Measure	SW-1846 & SW-1845	Service Water Flange Relocation	CHECK IF YES	8/19/2002	0211178
2	⊠ Repair     □ Replacement     □ Corrective Measure	CBS-P-9A	Bolting Replacement	CHECK IF YES	6/6/2002	0213858

			SDR-2 Interval, I Teriou			
Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
2	□ Repair     □ Replacement     □ Corrective Measure	CS-V-199	Repair Valve CS-V-199	CHECK IF YES	8/5/2002	0214753
3	□ Repair     □ Replacement     □ Corrective Measure	SW-1827	Service Water Repair	CHECK IF YES □	6/6/2002	0214842
1	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11C	Replacement of Primary Manway Cover on S/G "C"	CHECK IF YES □	6/3/2002	0215839
3	☐ Repair ☑ Replacement ☐ Corrective Measure	SW-V-227	Replacement of Valve SW-V- 227	CHECK IF YES	3/11/2003	0216896
3	☐ Repair ☑ Replacement ☐ Corrective Measure	SF-P-10A	Replacement of Gland Seal	CHECK IF YES □	6/5/2003	0223132
2	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11A	Machining of Secondary Handhole Cover on S/G "A"	CHECK IF YES □	10/29/2003	0230433
2	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11B	Bolting Replacement for Secondary Handhole Cover of Steam Generator	CHECK IF YES	10/29/2003	0230439
2	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11B	Machining of Secondary Handhole Cover on S/G "B"	CHECK IF YES □	10/29/2003	0230439
2	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11D	Replacement of Secondary Manway Cover	CHECK IF YES	10/29/2003	0230452
2	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11D	Replacement of Secondary Manway Cover Bolting	CHECK IF YES □	10/29/2003	0230452
2	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11D	Machining of Secondary Handhole Cover on S/G "D"	CHECK IF YES	10/28/2003	0230453
3	☐ Repair ☑ Replacement ☐ Corrective Measure	1304-RM-46	Replacement of Pipe Snubber	CHECK IF YES □	10/7/2003	0236413
3	☐ Repair ☑ Replacement ☐ Corrective Measure	810-RM-3	Replacement of Pipe Snubber	CHECK IF YES □	10/6/2003	0236422

			<del>_</del>			
Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
3	☐ Repair ☑ Replacement ☐ Corrective Measure	SW-V-48	Replacement of Valve SW-V-48	CHECK IF YES	10/18/2003	0245696
1	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-1	Reactor Stud Replacement	CHECK IF YES □	6/3/2002	02A3976
1	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11A	Replacement of Primary Manway Cover Bolting	CHECK IF YES □	6/3/2002	02A4046
1	Repair     Replacement     Corrective Measure	RC-E-11D	Steam Generator Plug Repair by Welding	CHECK IF YES □	6/3/2002	02A4047
1	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11D	Replacement of Primary Manway Cover Bolting	CHECK IF YES	6/3/2002	02A4047
2	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11C	Replacement of Secondary Manway Bolting	CHECK IF YES □	6/3/2002	02A4048
2	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11C	Machining of Secondary Handhole Cover	CHECK IF YES	6/3/2002	02A4051
1	Repair Replacement Corrective Measure	· RC-V-117	Replacement of Code Safety Valve	CHECK IF YES	6/11/2002	02RE00115001
1	Repair Replacement Corrective Measure	RC-V-116	Replacement of Code Safety Valve	CHECK IF YES	6/11/2002	02RE00115001
1	Repair Replacement Corrective Measure	RC-V-116	Replacement of Code Safety Valve	CHECK IF YES	6/11/2002	02RE00115001
1	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-P-1A	Replacement of Pump Seal Cartridge	CHECK IF YES	6/3/2002	02RM22681001
1	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-P-1C	Replacement of Pump Seal Cartridge	CHECK IF YES	6/3/2002	02RM22683001
3	Repair Replacement Corrective Measure	SW-V-53	Service Water Valve Replacement	CHECK IF YES □	2/7/2003	02RM23985001

SBK - 2<sup>nd</sup> Interval, 1<sup>st</sup> Period

			SBR-2 Interval, I Period			
Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
2	☐ Repair ☑ Replacement ☐Corrective Measure	RC-E-11B	Replacement of Secondary Handhole Cover Bolting	CHECK IF YES □	6/3/2002	02RM24692001
2	Repair Replacement Corrective Measure	RC-E-11C	Replacement of Secondary Handhole Cover Bolting	CHECK IF YES	6/3/2002	02RM24693001
3	Repair Replacement Corrective Measure	DG-V-5B	Valve Replacement	CHECK IF YES □	8/5/2002	02RM24822001
3	☐ Repair ☑ Replacement ☐ Corrective Measure	DG-V-4B	Valve Replacement	CHECK IF YES □	8/7/2002	02RM24823001
3	☐ Repair ☑ Replacement ☐ Corrective Measure	DG-V-1B	Valve Replacement	CHECK IF YES □	6/6/2002	02RM24824001
3	☐ Repair ☑ Replacement ☐ Corrective Measure	JTR-0902 SW-1827	Bolting and Piping Replacement for SW-1827	CHECK IF YES □	10/20/2003	0300931
2	☐ Repair ☑ Replacement ☐ Corrective Measure	1-CBS-E-16A	Bolting Replacement for CBS Heat Exchanger	CHECK IF YES	10/2/2003	0312472
2	☐ Repair ☑ Replacement ☐ Corrective Measure	RC-E-11A	Replacement of Secondary Manway Cover Bolting	CHECK IF YES □	10/29/2003	0312825
2	☐ Repair ☑ Replacement ☐ Corrective Measure	1-CBS-E-16B	Bolting Replacement for CBS Heat Exchanger	CHECK IF YES	8/26/2003	0313332
3	☐ Repair ☑ Replacement ☐ Corrective Measure	FW-P-37A	Replacement of Seal	CHECK IF YES	9/3/2002	97W000590
2	☐ Repair ☑ Replacement ☐ Corrective Measure	MS-V-6	Replacement of Main Steam Safety	CHECK IF YES	6/18/2002	98W000463
2	☐ Repair ☑ Replacement ☐ Corrective Measure	MS-V-8	Replacement of Main Steam Safety	CHECK IF YES	6/18/2002	98W000464
2	☐ Repair ☑ Replacement ☐ Corrective Measure	MS-V-9	Replacement of Main Steam Safety	CHECK IF YES	6/18/2002	98W000465

. ".

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Completed	Repair/ Replacement Plan Number
2	☐ Repair ☑ Replacement ☐ Corrective Measure	MS-V-25	Replacement of Main Steam Safety	CHECK IF YES	6/18/2002	98W000466
2	☐ Repair ☑ Replacement ☐ Corrective Measure	MS-V-52	Replacement of Main Steam Safety	CHECK IF YES	6/18/2002	98W000467
3	☐ Repair ☑ Replacement ☐ Corrective Measure	SW-1808	Bolting Replacement for Service Water Line SW-1808	CHECK IF YES □	10/18/2003	99C7025
3	☐ Repair ☑ Replacement ☐ Corrective Measure	SW-1816	Bolting Replacement for Service Water Line SW-1816 (JTR-101)	CHECK IF YES □	10/18/2003	99C7026
3	☐ Repair ☑ Replacement ☐ Corrective Measure	CC-V-444	Bolting Replacement for CC- V-444	CHECK IF YES □	7/19/2002	99W002784
3	□ Repair     □ Replacement     □ Corrective Measure	CC-P-11C	Repair of (Spare) Gland Seals for CC-P-11C	CHECK IF YES □	9/23/2002	99W003677
1	□ Repair     □ Replacement     □ Corrective Measure	S/N: N56964- 08-0065, 0066, 0067, 0098	Repair/Refurbishment of Spare Relief Valves	CHECK IF YES □	8/28/2002	P.O. 02171175
3	□ Repair     □ Replacement     □ Corrective Measure	SW-V-30	Refurbishment of Service Water Valve	CHECK IF YES □	8/23/2002	P.O. 02174758