

George Vanderheyden
Vice President
Calvert Cliffs Nuclear Power Plant
Constellation Generation Group, LLC

1650 Calvert Cliffs Parkway
Lusby, Maryland 20657
410 495-4455
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July 18, 2003

U. S. Nuclear Regulatory Commission
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Calvert Cliffs Nuclear Power Plant
Unit No. 2; Docket No. 50-318
Inservice Inspection Report

Please find enclosed the Inservice Inspection Report for the Calvert Cliffs Nuclear Power Plant Unit 2. This inspection fulfilled the intentions and requirements stated in our program plan and our commitment to comply with American Society of Mechanical Engineers Code Section XI Inservice Inspection Requirements.

Should you have questions regarding this matter, we will be pleased to discuss them with you.

Very truly yours,

A handwritten signature in black ink, appearing to be "H. J. Miller", written over a horizontal line.

GV/CAN/bjd

Enclosures: (1) Calvert Cliffs Nuclear Power Plant, Inservice Inspection Summary Report for Calvert Cliffs Unit 2, ASME Boiler & Pressure Vessel Code Section XI, Form NIS-1
(2) Calvert Cliffs Nuclear Power Plant, Inservice Inspection Summary Report for Calvert Cliffs Unit 2, ASME Boiler & Pressure Vessel Code Section XI, Form NIS-2

cc: Mr. Craig Lowry

(Without Enclosures)
J. Petro, Esquire
J. E. Silberg, Esquire
Director, Project Directorate I-1, NRC
G. S. Vissing, NRC

H. J. Miller, NRC
Resident Inspector, NRC
R. I. McLean, DNR

AD47

ENCLOSURE (1)

**CALVERT CLIFFS NUCLEAR POWER PLANT
INSERVICE INSPECTION SUMMARY REPORT
FOR CALVERT CLIFFS UNIT 2
ASME BOILER & PRESSURE VESSEL CODE
SECTION XI, FORM NIS-1**

OWNER'S REPORT FOR INSERVICE INSPECTIONS

(As required by the Provisions of the ASME Code Rules)

1. Owner Constellation Energy Group, P.O. Box 1475, Baltimore, MD 21203

(Name and Address of Owner)

2. Plant Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD 20657

(Name and Address of Plant)

3. Plant Unit 2

4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 04/01/1977

6. National Board Number for Unit 20912

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Pressure Vessel	Combustion Engineering	CE-67108	14001NV	20912
Pressurizer	Combustion Engineering	CE-67603	14001NV	20916
Steam Generator #21	Combustion Engineering	CE-67506	14001NV	20924
Steam Generator #22	Combustion Engineering	CE-67507	14001NV	20925
Reactor Coolant Piping	Combustion Engineering	N/A	N/A	N/A
#21A Reactor Coolant Pump	Byron Jackson	681-N-0441	14001-NV	N/A
#21B Reactor Coolant Pump	Byron Jackson	681-N-0442	14001-NV	N/A
#22A Reactor Coolant Pump	Byron Jackson	681-N-0443	14001-NV	N/A
#22B Reactor Coolant Pump	Byron Jackson	681-N-0444	14001-NV	N/A
Safety Injection Piping/Supports	Bechtel	N/A	N/A	N/A
Pressurizer Spray Piping/Supports	Bechtel	N/A	N/A	N/A
Pressurizer Safety & Relief Piping/Supports	Bechtel	N/A	N/A	N/A
Shutdown Cooling Piping/Supports	Bechtel	N/A	N/A	N/A
Charging Piping/Supports	Bechtel	N/A	N/A	N/A
Letdown Piping/Supports	Bechtel	N/A	N/A	N/A
Mainsteam Piping/Supports	Bechtel	N/A	N/A	N/A
#22 Shutdown Cooling Heat Exchanger	Engineers & Fabricators	S-15783B	014134-NV	1144
Main Feedwater Piping/Supports	Bechtel	N/A	N/A	N/A

8. Examination Dates 5/19/2001

to 4/22/2003

9. Inspection Period Identification: 2002 to 2006
10. Inspection Interval Identification: 1999 to 2009
11. Applicable Edition of Section XI 1998 Addenda None

12. Date/Revision of Inspection Plan: CCNPP Units 1&2 Third Interval ISI Plan, Revision 0

13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.

The examinations reported herein constitute the fourteenth report of Inservice Inspections performed at Calvert Cliffs Unit 2, and the first report within the second inspection period of the third inspection interval of commercial operations. The examinations for this inspection period, as required by the CCNPP Units 1&2 Third Interval ISI Plan, were performed in accordance with the 1998 Edition of ASME Section XI with no addenda. Nondestructive examination data and procedures are available at the site for review. See ATTACHMENT 1 for list of examinations.

14. Abstract of Results of Examinations and Tests.

Boric Acid residue was found on the valve bolting of 2-MOV-651. Support 6"-SI-2001B-R-13X, R-13Z was found to have construction related deficiencies.

15. Abstract of Corrective Measures.

Steam Generators #21 and #22 lower assemblies were replaced with new lower assemblies manufactured by B&W Canada. The bolt closest to the leak on 2-MOV-651 was removed and a VT-1 exam performed that found the bolting to be acceptable. MO#2200301643 corrected the construction deficiencies on support 6"-SI-2001B-R-13X, R-13Z.

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

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

Date 07/14/2003 Signed Constellation Energy Group By Keith M. Hoffman
Owner

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 provinces of Maryland and employed by FACTORY MUTUAL INSURANCE COMPANY of JOHNSTON, RI

have inspected the components described in this Owner's Report during the period 5-19-01 to 4-22-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

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

Robert W. Lawrence
Inspector's Signature

Commissions NBB226 ANI, MD647
National Board, State, Province, and Endorsements

Date 7-14-03

ATTACHMENT 1

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Inservice Inspection Report
Third Interval/ 2nd Period/ 1st Outage RFO14

1. Owner: Constellation Energy Group, P.O. Box 1475, Baltimore, MD 21203
2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD 20657
3. Plant Unit: 2
4. Owner Certificate of Authorization(If Req.): N/A
5. Commercial Service Date: 04/01/1977
6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: **- / -****Reactor Coolant Pressurizer**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
103520	PZR LVL Tap Base Metal	Pressurizer Level Tap Base Metal @ 7 1/2 Degrees	This exam was performed to verify the integrity of the pressurizer base metal around this penetration which was previously repaired.

Exam Results:

2003BU043 Accept
2003BU043 Accept

EXAM CATEGORY / ITEM NUMBER: **B-B / B2.11****PRESSURIZER**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
103070	3-401	LOWER SHELL TO LOWER HEAD	No recordable indications noted.

Exam Results:

2003BU031 Accept

EXAM CATEGORY / ITEM NUMBER: **B-B / B2.12****PRESSURIZER**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
103040	2-401D	LOWER SHELL AT 0 DEG.	No recordable indications noted.

Exam Results:

2003BU039 Accept

EXAM CATEGORY / ITEM NUMBER: **B-D / B3.110****PRESSURIZER**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
103100	16-405A	SAFETY AND RELIEF NOZZLE	Examination coverage was limited to 41% this examination will be considered for relief request.

Exam Results:

2003BU041 Accept

EXAM CATEGORY / ITEM NUMBER: **B-D / B3.120****PRESSURIZER**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
103140	16-405A-IRS	SAFETY AND RELIEF NOZZLE	No recordable indications noted.

Exam Results:

2003BU040 Accept

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EXAM CATEGORY / ITEM NUMBER: B-G-1 / B6.10**REACTOR PRESSURE VESSEL**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
102090	NUTS 1-54	Examine #1 Thru #18	The corrosion seen on the nuts is due to previous cleaning techniques. IR4-005-795 was written to address possible replacement of bolting in the future. The indication on nut #7 was determined to be from the washer which it was previously mated with.

Exam Results:

2003BV077 Accept

EXAM CATEGORY / ITEM NUMBER: B-G-1 / B6.30**REACTOR PRESSURE VESSEL**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
102100	STUDS 1-54	Examine #1 Thru #18	The corrosion seen on the studs is due to past cleaning techniques. IR4-005-795 was written to address possible replacement of the bolting in the future.

Exam Results:2003BM084 Accept
2003BM092 Accept
2003BU030 Accept**EXAM CATEGORY / ITEM NUMBER: B-G-1 / B6.50****REACTOR PRESSURE VESSEL**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
102110	WASHERS 1-54	Examine #1 Thru #18	The corrosion found on the RV bolting materials is due to previous cleaning techniques which has removed the parkerization.

Exam Results:

2003BV076 Accept

EXAM CATEGORY / ITEM NUMBER: B-G-2 / B7.20**REACTOR COOLANT**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
103230	PZR LWR LVL TAP	PZR LOWER LEVEL TAP MNSA S/N B007-02	No recordable indications noted.

Exam Results:

2003BV223 Accept

103240	PZR LWR LVL TAP	PZR LOWER LEVEL TAP MNSA S/N B007-03	No recordable indications noted.
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Exam Results:

2003BV227 Accept

103250	PZR MID LVL TAP	PZR MID LEVEL TAP MNSA S/N B006-03	No recordable indications noted.
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Exam Results:

2003BV232 Accept

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Inservice Inspection Report Third Interval/ 2nd Period/ 1st Outage RFO14

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6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: B-G-2 / B7.60

REACTOR COOLANT PUMPS

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
162650	22A-C-1-16	SEAL BOLTING	No recordable indications noted.

Exam Results:

2003BV057	Accept
2003BV057	Accept

162850	22B-C-1-16	SEAL BOLTING
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Exam Results:

2003BV058	Accept
2003BV058	Accept

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EXAM CATEGORY / ITEM NUMBER: B-G-2 / B7.70**CHEMICAL AND VOLUME CONTROL LETDOWN**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
164770	2-CV-515	VALVE BODY BOLTING	

Exam Results:

2003BV060 Accept
2003BV060 Accept

164780	2-CV-516 ON 2-LD-2004	VALVE BOLTING	
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Exam Results:

2003BV061 Accept
2003BV061 Accept

PRESSURIZER SPRAY

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
164740	2-CV-100E	VALVE BODY BOLTING	No recordable indications noted.

Exam Results:

2003BV055 Accept
2003BV055 Accept

164750	2-CV-100F	VALVE BODY BOLTING	
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Exam Results:

2003BV056 Accept
2003BV056 Accept

SHUTDOWN COOLING

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
164680	2-MOV-651 ON 12-SC-2004	VALVE BOLTING	

Exam Results:

2003BV024 Accept
2003BV260 Accept
2003BV024 Accept
2003BV260 Accept

164690	2-MOV-652 ON 12-SC-2004	VALVE BOLTING	
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No recordable indications noted.

Exam Results:

2003BV059 Accept
2003BV059 Accept

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5. Commercial Service Date: 04/01/1977
6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: B-J / B9.11**PRESSURIZER SAFETY AND RELIEF SYSTEM**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
141010	4-SR-2005-2	SAFE END TO ELBOW	The volumetric examination was limited to 50% due to PDI techniques and will be considered for relief request.

Exam Results:

2003BP059 Accept
2003BU038 Accept

139000	4-SR-2001-1	TEE TO PIPE	The volumetric examination coverage was limited to 50% due to PDI techniques and will be considered for relief request.
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Exam Results:

2003BU033 Accept
2003BP045 Accept

EXAM CATEGORY / ITEM NUMBER: B-J / B9.21**PRESSURIZER SAFETY AND RELIEF SYSTEM**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
143030	2.5-SR-2003-4	ELBOW TO PIPE	Scanned additional area for thermal fatigue concerns law RI-ISI program.

Exam Results:

2003BP046 Accept
2003BU032 Accept

EXAM CATEGORY / ITEM NUMBER: B-K-1 / B10.10**SAFETY INJECTION SYSTEM**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
120010	6-SI-2001-H-40	INTEGRALLY WELDED ATTACHMENT	No recordable indications noted.

Exam Results:

2003BP122 Accept

EXAM CATEGORY / ITEM NUMBER: B-P / B15.10**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165000	RV-SLT-1	SYSTEM LEAKAGE TEST	No indications of leakage were noted.

Exam Results:

2003BV297 Accept

EXAM CATEGORY / ITEM NUMBER: B-P / B15.20**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165020	PRZR-SLT-1	SYSTEM LEAKAGE TEST	No indications of leakage were noted.

Exam Results:

2003BV298 Accept

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5. Commercial Service Date: 04/01/1977
6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: B-P / B15.30**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165040	SG-SLT-1	SYSTEM LEAKAGE TEST	No indications of leaks were noted.

Exam Results:

2003BV299 Accept

EXAM CATEGORY / ITEM NUMBER: B-P / B15.40**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165060	HX-SLT-1	SYSTEM LEAKAGE TEST	No indications of leakage were noted.

Exam Results:

2003BV300 Accept

EXAM CATEGORY / ITEM NUMBER: B-P / B15.50**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165080	PP-SLT-1	SYSTEM LEAKAGE TEST	No indications of leakage were noted.

Exam Results:

2003BV301 Accept

EXAM CATEGORY / ITEM NUMBER: B-P / B15.60**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165100	PMP-SLT-1	SYSTEM LEAKAGE TEST	No indications of leakage were noted.

Exam Results:

2003BV302 Accept

EXAM CATEGORY / ITEM NUMBER: B-P / B15.70**PRESSURE RETAINING BOUNDARY**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
165120	VLV-SLT-1	SYSTEM LEAKAGE TEST	No indications of leakage were noted.

Exam Results:

2003BV303 Accept

EXAM CATEGORY / ITEM NUMBER: C-A / C1.10**SHUTDOWN COOLING HEAT EXCHANGERS**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
201650	SCHE-22-1	CHANNEL FLANGE TO CHANNEL	This exam was a single side exam due to component configuration. Exam coverage was limited to 61% of volume required. Will consider for Relief Request.

Exam Results:

2003BU006 Accept

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 6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: C-C / C3.20**CONTAINMENT SPRAY SYSTEM**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
268300	8-CS-2006-H-10, R-7	INTEGRALLY WELDED ATTACHM	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP032	Accept	

MAIN STEAM SYSTEM

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
281900	36-MS-2002-H-3	INTEGRALLY WELDED ATTACHM	Two linear indications were found on the stanchion pipe which appear to be from seams in the pipe. ESP ES200300131 found the indications to be acceptable as is.
<u>Exam Results:</u>			
	2003BU044	Accept	
	2003BM097	Reject	
	Evaluation Disposition: Acceptable		

SAFETY INJECTION SYSTEM

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
204750	24-SI-2002-H-20	INTEGRALLY WELDED ATTACHM	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP031	Accept	
216850	10-SI-2003-R-16	INTEGRALLY WELDED ATTACHM	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP027	Accept	
223400	6-SI-2001B-H-18	INTEGRALLY WELDED ATTACHM	Examination of the surface area was limited to those portions that were accessible without removal of support members.
<u>Exam Results:</u>			
	2003BP029	Accept	
	2003BP029	Accept	
228050	6-SI-2006A-H-14, R-27	INTEGRALLY WELDED ATTACHM	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP100	Accept	
231000	6-SI-2201-H-3	INTEGRALLY WELDED ATTACHM	Examination of the surface area was limited to those portions that were accessible without removal of support members.
<u>Exam Results:</u>			
	2003BP008	Accept	
	2003BP008	Accept	
232600	6-SI-2202-H-2	INTEGRALLY WELDED ATTACHM	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP007	Accept	
234250	6-SI-2203-R-11	INTEGRALLY WELDED ATTACHM	Areas of limited coverage were due to interference from the support clamp, Section XI does not require removal of the clamp.
<u>Exam Results:</u>			

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5. Commercial Service Date: 04/01/1977
6. National Board Number for Unit: 20912

235800	2003BP098 Accept 6-SI-2204-R-9	INTEGRALLY WELDED ATTACHM	The exam coverage was limited by the clamp. Section XI does not require removal of the clamp to attain coverage.
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Exam Results:

239625	2003BP099 Accept 4-SI-2005A-H-13	INTEGRALLY WELDED ATTACHM	UT WAS PERFORMED TO SUPPLEMENT PT TO ATTEMPT TO ACHIEVE GREATER COVERAGE.
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Exam Results:

2003BP005 Accept
2003BP005 Accept

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 6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: C-F-1 / ----

CONTAINMENT SPRAY SYSTEM

Summary/ID No.	Component ID	Component Description	Comments
261700	10-CS-2018-8	ELBOW TO PIPE	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP015 Accept		
	2003BU016 Accept		
261650	10-CS-2018-7	PIPE TO ELBOW	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP014 Accept		
	2003BU015 Accept		
264000	8-CS-2004-21	PIPE TO ELBOW	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP016 Accept		
	2003BU019 Accept		
260600	10-CS-2002-1	REDUCER TO PIPE	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP028 Accept		
	2003BU017 Accept		
260700	10-CS-2002-3	TEE TO PIPE	No recordable indications noted.
<u>Exam Results:</u>			
	2003BU018 Accept		
	2003BP013 Accept		

SAFETY INJECTION SYSTEM

Summary/ID No.	Component ID	Component Description	Comments
212800	12-SI-2004A-22	ELBOW TO PIPE	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP009 Accept		
	2003BU010 Accept		
215250	10-SI-2002-6	ELBOW TO PIPE	No recordable indications noted.
<u>Exam Results:</u>			
	2003BU020 Accept		
	2003BP017 Accept		
211950	12-SI-2004A-7	PIPE TO ELBOW	No recordable indications noted.
<u>Exam Results:</u>			
	2003BU014 Accept		
	2003BP012 Accept		
216550	10-SI-2003-19	PIPE TO ELBOW	No recordable indications noted.
<u>Exam Results:</u>			
	2003BU005 Accept		
	2003BP003 Accept		
211600	12-SI-2004A-1	REDUCER TO ELBOW	No recordable indications noted.
<u>Exam Results:</u>			

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3. Plant Unit:	<u>2</u>
4. Owner Certificate of Authorization(If Req.)	<u>N/A</u>
5. Commercial Service Date:	<u>04/01/1977</u>
6. National Board Number for Unit:	<u>20912</u>
2003BP011	Accept
2003BU013	Accept

SHUTDOWN COOLING SYSTEM

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
277300	12-SC-2015-19	PIPE TO TEE	No recordable indications noted.
<u>Exam Results:</u>			
	2003BU012	Accept	
	2003BP010	Accept	

EXAM CATEGORY / ITEM NUMBER: C-F-1 / C5.11**SAFETY INJECTION SYSTEM**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
204350	24-SI-2002-5	ELBOW TO PIPE	Root geometry noted intermittently 360° with 70° scan.
<u>Exam Results:</u>			
	2003BU007	Accept	
	2003BP006	Accept	

EXAM CATEGORY / ITEM NUMBER: C-F-1 / C5.21**SAFETY INJECTION SYSTEM**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
237900	4-SI-2005-3	PIPE TO ELBOW	Ultrasonic coverage limited to 96%. Root geometry indications noted intermittently 360°.
<u>Exam Results:</u>			
	2003BU003	Accept	
	2003BP001	Accept	
238400	4-SI-2005-11	PIPE TO ELBOW	No recordable indications noted.
<u>Exam Results:</u>			
	2003BP002	Accept	
	2003BU004	Accept	

ATTACHMENT 1

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**Inservice Inspection Report
Third Interval/ 2nd Period/ 1st Outage RFO14**

1. Owner: Constellation Energy Group, P.O. Box 1475, Baltimore, MD 21203
2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD 20657
3. Plant Unit: 2
4. Owner Certificate of Authorization(If Req.): N/A
5. Commercial Service Date: 04/01/1977
6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: F-A / F1.10**DRAIN LINES**

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
602520	2-DR-2004H-1,R-1	COMPONENT SUPPORT	No recordable indications noted.
<u>Exam Results:</u> 2003BV228 Accept			

PRESSURIZER SAFETY AND RELIEF SYSTEM

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
601920	4-SR-2001-R-40	COMPONENT SUPPORT	Light surface rust on Clamp Bolts, no degradation.
<u>Exam Results:</u> 2003BV081 Accept			

PRESSURIZER SURGE LINE

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
600400	12-PSL - H-1	COMPONENT SUPPORT	No recordable indications noted.
<u>Exam Results:</u> 2003BV073 Accept			

SAFETY INJECTION SYSTEM

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
601490	6-SI-2001-H-40	COMPONENT SUPPORT	
<u>Exam Results:</u> 2003BV217 Accept 2003BV217 Accept			

ATTACHMENT 1

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Inservice Inspection Report Third Interval/ 2nd Period/ 1st Outage RFO14

1. Owner: Constellation Energy Group, P.O. Box 1475, Baltimore, MD 21203
 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD 20657
 3. Plant Unit: 2
 4. Owner Certificate of Authorization(If Req.): N/A
 5. Commercial Service Date: 04/01/1977
 6. National Board Number for Unit: 20912

EXAM CATEGORY / ITEM NUMBER: F-A / F1.20

CONTAINMENT SPRAY SYSTEM

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
718600	8-CS-2004-R-1A	COMPONENT SUPPORT	No recordable indications noted.

Exam Results:

2003BV047 Accept

720100	8-CS-2006-H-10, R-7	COMPONENT SUPPORT	No recordable indications noted.
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Exam Results:

2003BV003 Accept

MAIN STEAM SYSTEM

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
724750	36-MS-2001-R-2	COMPONENT SUPPORT	The as found bolt engagement was accepted as-is by ESP ES200300139.

Exam Results:

2003BV096 Reject

725000	36-MS-2002-H-3	COMPONENT SUPPORT	Light rust and minor chipped coating was observed.
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Exam Results:

2003BV098 Accept

726150	34-MS-2005-R-7	COMPONENT SUPPORT	No recordable indications noted.
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Exam Results:

2003BV201 Accept

SAFETY INJECTION SYSTEM

<u>Summary/ID No.</u>	<u>Component ID</u>	<u>Component Description</u>	<u>Comments</u>
701250	24-SI-2002-H-20	COMPONENT SUPPORT	IR4-002-329 written to address the degradation of the coatings on the support.

Exam Results:

2003BV045 Accept

703850	14-SI-2011-R-7Z	COMPONENT SUPPORT	No recordable indications noted.
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Exam Results:

2003BV049 Accept

705000	10-SI-2002-R-12	COMPONENT SUPPORT	No recordable indications noted.
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Exam Results:

2003BV043 Accept

705400	10-SI-2003-H-16	COMPONENT SUPPORT	COMPONENT WAS COATED. ISOLATED AREAS OF CHIPPED COATING WAS OBSERVED
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Exam Results:

2003BV001 Accept

705600	10-SI-2003-R-16	COMPONENT SUPPORT	No recordable indications noted.
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Exam Results:

2003BV048 Accept

707150	8-SI-2021-RH-3, R-3	COMPONENT SUPPORT	No recordable indications noted.
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Exam Results:

2003BV006 Accept

ATTACHMENT 1

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Inservice Inspection Report Third Interval/ 2nd Period/ 1st Outage RFO14

1. Owner:	<u>Constellation Energy Group, P.O. Box 1475, Baltimore, MD 21203</u>		
2. Plant:	<u>Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD 20657</u>		
3. Plant Unit:	<u>2</u>		
4. Owner Certificate of Authorization(If Req.)	<u>N/A</u>		
5. Commercial Service Date:	<u>04/01/1977</u>		
6. National Board Number for Unit:	<u>20912</u>		
707200	8-SI-2021-H-5	COMPONENT SUPPORT	No recordable indications noted.
<u>Exam Results:</u>			
	2003BV008 Accept		
707450	6-SI-2001B-H-17	COMPONENT SUPPORT	Minor surface corrosion was noted on the upper threaded portions of the support rods.
<u>Exam Results:</u>			
	2003BV052 Accept		
707500	6-SI-2001B-H-18	COMPONENT SUPPORT	No recordable indications noted.
<u>Exam Results:</u>			
	2003BV046 Accept		
707550	6-SI-2001B-R-13X	COMPONENT SUPPORT	MO 2200301643 corrected the construction deficiencies noted on IR4-005-525.
<u>Exam Results:</u>			
	2003BV044 Reject		
	2003BV249 Accept		
707600	6-SI-2001B-R-13Z	COMPONENT SUPPORT	MO 2200301643 corrected construction deficiencies noted on IR4-002-330.
<u>Exam Results:</u>			
	2003BV050 Reject		
	2003BV250 Accept		
708000	6-SI-2005-H-3, R-2	COMPONENT SUPPORT	The condition noted on IR4-009-373 was evaluated as acceptable as-is by ESP ES200300166.
<u>Exam Results:</u>			
	2003BV007 Accept		
708700	6-SI-2006A-H-14, R-27	COMPONENT SUPPORT	No recordable indications noted.
<u>Exam Results:</u>			
	2003BV162 Accept		
709350	6-SI-2201-R-3	COMPONENT SUPPORT	No recordable indications noted.
<u>Exam Results:</u>			
	2003BV016 Accept		
709400	6-SI-2201-H-3	COMPONENT SUPPORT	No recordable indications noted.
<u>Exam Results:</u>			
	2003BV018 Accept		
710000	6-SI-2202-H-2	COMPONENT SUPPORT	No recordable indications noted.
<u>Exam Results:</u>			
	2003BV019 Accept		
710700	6-SI-2203-R-11	COMPONENT SUPPORT	Minor leakage noted at remote reservoir (IR4-017-778) corrected under MO#0200101057 and verified by the examiner.
<u>Exam Results:</u>			
	2003BV160 Accept		
711300	6-SI-2204-R-9	COMPONENT SUPPORT	No recordable indications noted.
<u>Exam Results:</u>			
	2003BV161 Accept		
711920	4-SI-2005A-H-13	COMPONENT SUPPORT	
<u>Exam Results:</u>			
	2003BV004 Accept		

ATTACHMENT 1

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Inservice Inspection Report Third Interval/ 2nd Period/ 1st Outage RFO14

1. Owner: Constellation Energy Group, P.O. Box 1475, Baltimore, MD 21203
2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD 20657
3. Plant Unit: 2
4. Owner Certificate of Authorization(If Req.) N/A
5. Commercial Service Date: 04/01/1977
6. National Board Number for Unit: 20912

714300 3-SI-2001-R-11 COMPONENT SUPPORT

The base plate conditions noted are within the tolerances of ES-002 and is acceptable to ASME Section XI.

Exam Results:

2003BV051 Accept

714400 3-SI-2003-H-1, (R-1) COMPONENT SUPPORT

COMPONENT WAS COATED. ISOLATED AREAS OF CHIPPED COATING WAS OBSERVED.

Exam Results:

2003BV002 Accept

716600 2-SI-2021-H-22 COMPONENT SUPPORT

ESP ES200300182 accepted the as-is the construction conditions noted in IR4-017-777

Exam Results:

2003BV159 Accept

ENCLOSURE (2)

**CALVERT CLIFFS NUCLEAR POWER PLANT
INSERVICE INSPECTION SUMMARY REPORT
FOR CALVERT CLIFFS UNIT 2
ASME BOILER & PRESSURE VESSEL CODE
SECTION XI, FORM NIS-2**

2003-2 Class 1 and 2 NIS-2's Completed

MWO No	R&R Number	UEI	XL Class
2199801252	99-2-002	2HVSI-1096	Two
2199804167	99-2-001	2PUMPRC22A(s)	One
2200000101	2002-2-063a	2MOV403	One
	2002-2-063b	2#CC10-2001	One
2200002303	2002-2-044a	2HVSI-704	One
	2002-2-044b	2#CC14-2004	One
2200101202	2002-2-022	2#EB12-2009	Two
2200101349	2003-2-024	2MOV644	One
2200102593	2002-2-031	2CKVSI-237	One
2200103213	2002-2-070b	2#CC5-2006	One
2200103623	2003-2-014b	2PZVRX21	One
2200200044	2002-2-065a	2MOV405	One
	2002-2-065b	2#CC10-2002	One
	2002-2-065c	2#CC10-2009	One
2200200279	2002-2-068a	2CKVCVC-185	One
	2002-2-068b	2#CC5-2003	One
2200200869	2002-2-039	2RV200	One
2200200871	2002-2-040	2RV201	One
2200201257	2003-2-030	2ERV404	One
2200201333	2002-2-069a	2CKVCVC-186	One
	2002-2-069b	2#CC5-2004	One
2200202486	2002-2-037	2CV4150	Two
2200203541	2003-2-003a	2CKVCVC-187	One
	2003-2-003b	2#CC5-2005	One
2200203549	2002-2-043	2PUMPCVCCHG21	Two
2200203695	2002-2-066b	2#GC1-2002,R12	Two
2200300789	2003-2-022	2CV618	One
2200301027	2003-2-013b	2#CC7-2003	Two
2200301119	2003-2-018a	2#EB1-2005	Two
	2003-2-018b	2FO4009	Two
	2003-2-018c	2#EB1-2004	Two
2200301603	2003-2-023	2#CC-9, 1" & under	One
2200301643	2003-2-025	2#GC3-2001,R13	Two
2200301748	2003-2-028	2CKVCVC-184	Two
2200301752	2003-2-029	2CKVCVC-435	One
ES199601526	SG-2-001a	2HXRC21	One & Two
	SG-2-001b	2#CC-1	One
	SG-2-001c	2#DB-1/EB-1, -5 & -6	Two
	SG-2-001d	2#CC-9, 1" & under	One
	SG-2-001e	2HXRC21SUP	One & Two
	SG-2-002a	2HXRC22	One & Two
	SG-2-002b	2#CC-1	One
	SG-2-002c	2#DB-1/EB-1, -5 & -6	Two
	SG-2-002d	2#CC-9, 1" & under	One
	SG-2-002e	2HXRC22SUP	One & Two
SNUB POOL	SNUB-0-003	*Snubber Pool	1, 2, & 3

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/17/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 99-2-002, MWO No. 2199801252
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: Two

4. Identification of System: System Number 061 System Name: Containment Spray

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970
Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced (Yes or No)	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	2-HVSI-1096	N/A	Containment Spray Pump #22 Suction line P.I. Isolation Valve	1977	Repaired/Replaced	Yes

7. Description of Work:
This plan was to perform a lock weld on 2HVSI-1096 valve bonnet to secure new yoke bushing.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/17/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 7-27-00 to 9-16-02, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226 AWC, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 99-2-001, MWO No. 2199804167
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1983 Edition, Summer 1983 Add;
Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced (Yes or No)	ASME Code Stamped (Yes or No)
RCP Seal	Sulzer Bingham Inc.	SN: 1C867	NB 1299	# 22A Reactor Coolant Pump Mechanical Seal	1988	Repaired/Replaced	Yes
Seal	BGE CCNPP Shops	2199904525 SN: 1C868	N/A	Seal, Cartridge Assembly (RCP) 875B-3V Complete Sulzer Bingham per FCR 87-0074	2002	Replacement	Yes

7. Description of Work:

This plan was for the replacement of the mechanical seal on #22A Reactor Coolant Pump.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2259 psi. Test Temperature: 528 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 8-25-00 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226 ANI, MD 647
National Board, State, and Endorsements

Date: June 6, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-063a, MWO No. 2200000101
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970
Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	SN: 155	N/A	#21 Pressurizer Isolation Block Valve for 2-ERV-402	1977	Repaired/Replaced	Yes
Gate Valve	Flowserve Corporation	405820 SN: E506T-1-3	N/A	Valve, Gate, 2 1/2 in., 1703 lb., Sch. 160 Buttwelded, Flowserve P/N W01-25821, ASME SA-351 Gr. CF8M	2002	Replacement	Yes

7. Description of Work:

This plan was for the replacement of 2-MOV-403, #21 Pressurizer Isolation Block Valve for 2-ERV-402.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2226 psi. Test Temperature: 644 Deg. F

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)

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI Surface Examination of the affected component was performed to satisfy Section XI Pre-Service Requirements. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 12-18-02 to 5-5-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NBB226 ANI, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/19/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: One
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-063b, MWO No. 2200000101
(address) (P.O. no., job no., etc.)
3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One
4. Identification of System: System Number 064 System Name: Reactor Coolant System
5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One
(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	4"CC-10-2001	N/A	Pressurizer Piping to 2-MOV-403	1977	Repaired/Replaced	No
Pipe	Consolidated Power Supply	408690 Ht.: A27866	N/A	Pipe, 2 1/2 in., Sch. 160, ASME SA-376, Tp. 316	2002	Replacement	No
Elbow	Consolidated Power Supply	408690 Ht.: F8746	N/A	Elbow, Pipe, 2 1/2 in., 90 Deg., Sch.160, Long Radius, butt weld, ASME SA-403, Gr. WP316	2002	Replacement	No
Concentric Reducer	Consolidated Power Supply	408690 Ht.: F8745	N/A	Reducer, Pipe, Concentric, 4 in. X 2 1/2 in., Sch. 120 X 160, ASME SA-403, Gr. WP316	2002	Replacement	No

7. Description of Work:

This plan was for the replacement of the piping/fittings in support of the replacement of 2-MOV-403, #21 Pressurizer Isolation Block Valve for 2-ERV-402.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2226 psi. Test Temperature: 644 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI Surface Examination of the affected component was performed to satisfy Section XI Pre-Service Requirements. A Section XI Ultrasonic Examination of the affected component was performed to satisfy Section XI Pre-Service NDE Requirements. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/19/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 12-18-02 to 5-5-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226 ANI, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/23/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-044a, MWO No. 2200002303
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1989 Edition, Class One
(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	2-HVSI-704	N/A	Shutdown Cooling Header First Isolation Drain Valve	2002	Repaired/Replaced	Yes
Gate Valve	Framatome ANP Inc.	400425 SN: 011015-1	N/A	Valve, Gate, 3/4 in, 1690 lb., ASME SA-182 Tp. F316, per Drawing 12968-0132, Item 116.	2001	Replacement	Yes

7. Description of Work:

This plan was for the modification to install a new valve 2-HVSI-704 on the Shutdown Cooling piping 14"CC-14-2004 inside Containment at the Containment Penetration.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/23/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 10-31-02 to 5-2-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 AVE, MD 647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/23/2003
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
 (address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-044b, MWO No. 2200002303
 (address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
 (name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
 (address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Piping System	Bechtel	2-CC-14-2004	N/A	Shutdown Cooling Piping Through Containment to Isolation Valves	1977	Repaired/Replaced	No
Pipe	DuBose National Energy Services Inc.	400298 Ht.# AJ7985	N/A	Pipe, 3/4 in. Sch. 80, ASME SA-376, TP-316	2000	Replacement	No
Nut	Mackson Inc.	404798 Ht.#: F50450	N/A	Nut, Heavy Hex, 3/8 in. X 16 TPI, ASME SA-194 Gr. 2H	2001	Replacement	No
Half Coupling	DuBose National Energy Services Inc.	54906-GX Heat Code: EMS	N/A	Coupling, Half, 3/4 in, 3000 lb., Socketweld, ASME SA-182, Tp. F 316	1992	Replacement	No
Anchor Clamp	Grinnell Corporation	85611-GX Heat Code: PL-084	N/A	Clamp, Anchor, 3/4 in. Part# 1 of PG-41/42/43 on Drwg.# FSK-MP-0571SH0003, 0005 & 0006	1993	Replacement	No
Base Clamp	Grinnell Corporation	54500-GX Ht.#: PL097	N/A	Clamp, Restraint Base, 3/4 in. Part# 5 of PG-41/43 on Drwg.# FSK-MP-0571SH 0005	1991	Replacement	No
Bolt	Allied Group	30754 Heat Code: Z84	N/A	Bolt, Hex. Head, 3/8 in. X 16 TPI X 1 1/4 in., ASME SA-193, Gr. B7	1998	Replacement	No
Pipe Clamp	Anvil International Inc. (Grinnell Pipe Supports)	408473 Ht.#: 27982	N/A	Clamp, Pipe, 14 in., Medium, Grinnell Fig. 212N, with Bolting	2002	Replacement	No
Tube Steel	DuBose National Energy Services Inc.	400428 Ht.#: GF0413	N/A	Tube, Steel, 3 in. X 3 in. X 1/4 in., ASTM A-500 Gr. B	2001	Replacement	No

FORM NIS-2 (Back)

7. Description of Work:

This plan was for the new piping, fittings and hanger support material used to support the installation of valve 1-HVSI-704 which is the new drain off of 14"CC-14-2004.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/23/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 10-31-02 to 5-2-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NB 8226 ANI, MD 647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-022, MWO No. 2200101202
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: Two

4. Identification of System: System Number 083 System Name: Main Steam & SG Blowdown

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Piping System	Bechtel	4"EB-12-2009	N/A	Piping from #21 Main Steam Header to 2-CV-3939, Atmospheric Dump Valve	1977	Repaired/Replaced	No
Elbow	DuBose National Energy Services Inc.	400430 Heat Code: H676L	N/A	Elbow, Pipe, 4 in., 90 Deg., Sch.40, Long Radius, butt weld, ASME SA-234 Gr. WPB	2001	Replacement	No

7. Description of Work:

This plan was for the replacement of two 90 degree elbows on 4"EB-12-2009, piping from #21 Main Steam Header to 2-CV-3939, Atmospheric Dump Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 846 psi. Test Temperature: 524 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 6-25-02 to 4-19-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226 AHI, MD644
National Board, State, and Endorsements

Date: June 13, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/18/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-024, MWO No. 2200101349
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970
Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement (Yes or No)	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	SN: V1090	N/A	#22A Safety Injection Tank Motor Operated Isolation Valve	1977	Repaired/Replaced	No
Wedge	Velan Inc.	51582-GX SN: 3559	N/A	Wedge, 12 in. Gate, Velan P/N: 8959-097N440, ASME SA-182, Gr. F316, Drawing #12320-0001, Item #12	1990	Replacement	No

7. Description of Work:

This plan was for the work and parts needed to rebuild 2-MOV-644, #22A Safety Injection Tank Motor Operated Isolation Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: Charles H. Ballard

Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/18/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 3-25-03 to 5-6-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB0226 ANI, MD 647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 3
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-031, MWO No. 2200102593
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B16.5, 1968 Edition, Steel Pipe Flanges and Flanged Fittings NPS 1/2" thru 24" & CCASE N-10

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	2-CKVSI-237	N/A	#22B Reactor Coolant Loop Safety Injection Check Valve	1977	Repaired/Replaced	No
Disc	Velan Valve Corporation	404387 SN: 7559	N/A	Disc, Velan, 12 in. 1500 lb. Check Valve, ASME SA-182, Tp. F316, Drwg. 12124-0001, Item #3	2002	Replacement	No
Stud	Velan Engineering Co.	53907-GX Heat Code: V5 & B4	N/A	Stud, Cover, 1 7/8 in. X 8 TPI, ASME SA-193 Gr.B7, 12 in. 1500 lb. Check, Drwg. 12124-0001, Item #18	1991	Replacement	No
Nut	Velan Engineering Co.	70899-GX Heat Code: V30	N/A	Nut, Hex, Cover, 1 7/8 in. X 8 TPI, SA-194 Gr7, 12 in., 1500 lb. Check, Drwg. 12124-0001, Item #17	1992	Replacement	No
Nut	Velan Engineering Co.	90247-GX Heat Code: V50	N/A	Nut, Hex, Cover, 1 7/8 in. X 8 TPI, SA-194 Gr7, 12 in., 1500 lb. Check, Drwg. 12124-0001, Item #17	1994	Replacement	No

7. Description of Work:

This plan was for rebuilding 2-CKVSI-237, #22B Reactor Coolant Loop Safety Injection Check Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. The replacement valve wedge/plug/disc/trim received a Construction Code Surface Examination at the request of the resident ANII.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 8-23-02 to 5-13-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert L. Lawrence
Inspector's Signature

Commissions: NB3226 ANI, MD 647
National Board, State, and Endorsements

Date: June 13, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/17/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-070b, MWO No. 2200103213
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One
(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Stamped (Yes or No)	ASME Code
Piping System	Bechtel	2"CC-5-2006	N/A	#21 Regen. Heat Exch. to #21A RCS Cold Leg Loop	1977	Repaired/Replaced	No
Nut	Mackson Inc.	400066 Heat Code: JKK	N/A	Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H	2000	Replacement	No
Allthread Rod	Nova Machine Products Corp.	402325 Ht.#: 69541	N/A	Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7	2000	Replacement	No
Flange	DuBose National Energy Services Inc.	409374 Ht. Code: BHI	N/A	Flange, 2 in., Sch 160, 1500 lb., Large Tongue, Weld Neck, ASME SA-182, Tp: F 316	2003	Replacement	No

7. Description of Work:

This plan was for the removal and reinstallation of three test connections for better accessibility and for the piping, flanges and fasteners needed to support the replacement of 2-CKVCVC-435, #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop CV By Pass Check Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2355 psi. Test Temperature: 375 Deg. F

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)

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI Surface Examination of the affected component was performed to satisfy Section XI Pre-Service Requirements. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/17/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 2-4-03 to 6-2-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence

Inspector's Signature

Commissions: NB8226 ANI, MD647

National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: <u>Calvert Cliffs Nuclear Power Plant, Inc.</u>		Date: <u>05/23/2003</u>					
(name)							
<u>1650 Calvert Cliffs Parkway; Lusby, MD 20657</u>		Sheet 1 of 2					
(address)							
2. Plant: <u>Calvert Cliffs Nuclear Power Plant</u>		Unit: <u>Two</u>					
(name)							
<u>1650 Calvert Cliffs Parkway; Lusby, MD 20657</u>		R&R No. <u>2003-2-014b</u> , MWO No. <u>2200103623</u>					
(address)		(P.O. no., job no., etc.)					
3. Work Performed by: <u>Calvert Cliffs Nuclear Power Plant Dept.</u>		Type Code Symbol Stamp: <u>N/A</u>					
(name)		Authorization No.: <u>N/A</u>					
<u>1650 Calvert Cliffs Parkway, Lusby, MD 20657</u>		Exp Date: <u>N/A</u>					
(address)		Section XI Class: <u>One</u>					
4. Identification of System: System Number <u>064</u> System Name: <u>Reactor Coolant System</u>							
5. (a) Applicable Construction Code and Class: <u>ASME B&PV Code Sect. III, 1965 Edition, Winter 1967 Add; Class A CCases: 1335-2, 1336, 1359-1</u>							
(b) Applicable Sect XI Ed. for Repairs/Replacement <u>1998 Edition</u>							
6. Identification of Components Repaired or Replaced and Replacement Components:							
Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement (Yes or No)	ASME Code Stamped (Yes or No)
Pressure Vessel	Combustion Engineering	CE-67108; CE-67208	20912	Unit Two Reactor Vessel & Head	1971	Repaired/Replaced	No
7. Description of Work:							
This plan was for the Unit Two Reactor Vessel Head Vent Piping Penetration nozzle J-groove welds. It allows for up to 1/8" of metal removal on the J-groove welds in an attempt to remove any defects if possible.							
8. Tests Conducted: Hydrostatic: <input type="checkbox"/> Pneumatic: <input type="checkbox"/> Nominal Operating Pressure: Inservice: <input type="checkbox"/> Leakage: <input type="checkbox"/> Functional: <input type="checkbox"/>							
Pressure: <u>N/A</u> psi. Test Temperature: <u>N/A</u> Deg. F							

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)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/ACertificate of Authorization No.: N/A Expiration Date: N/A

Signed:


Owner or Owner's Designee, TitleCharles H. Ballard
Engineering TechnicianDate: 05/23/2003**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 3-13-03 to 4-16-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's SignatureCommissions: NB8226 A1E, MD647
National Board, State, and EndorsementsDate: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/19/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-065a, MWO No. 2200200044
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970
Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	SN: 154	N/A	Pressurizer Isolation Block Valve for 2-ERV-404	1977	Repaired/Replaced	Yes
Gate Valve	Flowserve Corporation	405820 SN: E506T-1-4	N/A	Valve, Gate, 2 1/2 in., 1703 lb., Sch. 160 Buttwelded, Flowserve P/N W01-25821, ASME SA-351 Gr. CF8M	2002	Replacement	Yes

7. Description of Work:

This plan was for the replacement of 2-MOV-405, #21 Pressurizer Isolation Block Valve for 2-ERV-404.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2226 psi. Test Temperature: 644 Deg. F

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)

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI Surface Examination of the affected component was performed to satisfy Section XI Pre-Service Requirements. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/19/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 12-18-02 to 5-2-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NB B226 ASE, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc.
(name)

Date: 06/19/2003

1650 Calvert Cliffs Parkway; Lusby, MD 20657
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant
(name)

Unit: One

1650 Calvert Cliffs Parkway; Lusby, MD 20657
(address)

R&R No. 2002-2-065b, MWO No. 2200200044

(P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept.
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Exp Date: N/A

Section XI Class: One

1650 Calvert Cliffs Parkway, Lusby, MD 20657
(address)

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced (Yes or No)	ASME Code Stamped
Piping System	Bechtel	4"CC-10-2002	N/A	Pressurizer Piping to 2-MOV-405	1977	Repaired/Replaced	No
Concentric Reducer	Consolidated Power Supply	408690 Ht.: F8745	N/A	Reducer, Pipe, Concentric, 4 in. X 2 1/2 in., Sch. 120 X 160, ASME SA-403, Gr. WP316	2002	Replacement	No

7. Description of Work:

This plan was for the piping/fittings in support of the replacement of 2-MOV-405, #21 Pressurizer Isolation Block Valve for 2-ERV-404.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2226 psi. Test Temperature: 644 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI Surface Examination of the affected component was performed to satisfy Section XI Pre-Service Requirements. A Section XI Ultrasonic Examination of the affected component was performed to satisfy Section XI Pre-Service NDE Requirements. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/19/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 12-18-02 to 5-2-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 ANI, MD 647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc.
(name)

Date: 06/19/2003

1650 Calvert Cliffs Parkway; Lusby, MD 20657
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, MD 20657
(address)

R&R No. 2002-2-065c, MWO No. 2200200044

(P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept.
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Exp Date: N/A

Section XI Class: One

1650 Calvert Cliffs Parkway, Lusby, MD 20657
(address)

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Piping System	Bechtel	3/4"CC-10-2009	N/A	Pressurizer Piping to 2-SX-6450	1977	Repaired/Replaced	No
Angle	DuBose National Energy Services Inc.	400428 Ht.: JC1808	N/A	Angle, 4 in. X 4 in. X 1/4 in., ASME SA-36	2001	Replacement	No
Pipe	Tloga Pipe Supply Co. Inc.	402564 Ht.: L42618	N/A	Pipe, 3/4 in. Sch. 160, ASME SA-376, TP-316	2001	Replacement	No
Coupling	DuBose National Energy Services Inc.	54906-GX Heat Code: EPM	N/A	Coupling, 3/4 in., 6000 lb., Socketweld, ASME SA-182, Gr. F316	1992	Replacement	No
Rod	Allied Group	39264 Ht.#: 8990981	N/A	Rod, Allthread, 3/8 in. X 16 TPI, ASME SA-193 Gr. B7	1999	Replacement	No

7. Description of Work:

This plan was for the 3/4" piping/fittings/material in support of the replacement of 2-MOV-405, #21 Pressurizer Isolation Block Valve for 2-ERV-404.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/19/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 12-18-02 to 5-2-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB3226 ANI, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc.
(name)

Date: 06/18/2003

1650 Calvert Cliffs Parkway; Lusby, MD 20657.
(address)

Sheet 1 of 2

2. Plant: Calvert Cliffs Nuclear Power Plant
(name)

Unit: Two

1650 Calvert Cliffs Parkway; Lusby, MD 20657
(address)

R&R No. 2002-2-068a, MWO No. 2200200279

(P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept.
(name)

Type Code Symbol Stamp: N/A

Authorization No.: N/A

Exp Date: N/A

1650 Calvert Cliffs Parkway, Lusby, MD 20657
(address)

Section XI Class: One

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970
Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced (Yes or No)	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	SN: 41-5N1	N/A	#21 Regen. Heat Exch. to #21 Pressurizer Aux. Spray Check Valve	1977	Repaired/Replaced	Yes
Check Valve	Enertech Inc.	408934 SN: 11262	N/A	Valve, Nozzle Check, 2 in., 1500 lb., Large Groove Flanged end connections, Enertech, Tp. KRV	2002	Replacement	Yes

7. Description of Work:

This plan was for the work needed to replace 2-CKVCVC-185, #21 Regen. Heat Exch. to #21 Pressurizer Aux. Spray Check Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2355 psi. Test Temperature: 375 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/18/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 2-4-03 to 5-27-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 ANI, MD 647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/18/2003
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
 (address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-068b, MWO No. 2200200279
 (address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
 (name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
 (address) Section XI Class: One

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One
 (b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	2"CC-5-2003	N/A	#21 Regen. Heat Exch. to #21 Pressurizer Aux. Spray	1977	Repaired/Replaced	No
Pipe	DuBose National Energy Services Inc.	400298 Ht #: 32789	N/A	Pipe, 2 in., Sch. 160, ASME SA-376, Tp. 316	2000	Replacement	No
Nut	Mackson Inc.	408227 Ht. #: S44018	N/A	Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H	2002	Replacement	No
Allthread Rod	Nova Machine Products Corp.	402325 Ht. #: 69541	N/A	Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7	2000	Replacement	No
Coupling	Consolidated Power Supply	87523-GX Heat Code: EAA	N/A	Coupling, 2 in., 6000 lb., Socketweld, ASME SA-182, Gr. F316	1994	Replacement	No
Flange	DuBose National Energy Services Inc.	409374 Ht. Code: BHI	N/A	Flange, 2 in., Sch 160, 1500 lb., Large Tongue, Socketweld, ASME SA-182, Tp. F 316	2003	Replacement	No

7. Description of Work:
 This plan was for the piping, fittings, flanges and fasteners needed to support the replacement of 2-CKVCVC-185, #21 Regen. Heat Exch. to #21 Pressurizer Aux. Spray Check Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
 Pressure: 2355 psi. Test Temperature: 375 Deg. F

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)

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI Surface Examination of the affected component was performed to satisfy Section XI Pre-Service Requirements. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/18/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 2-4-03 to 5-27-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NB 3226 ANT, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/19/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-039, MWO No. 2200200869
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1968 Edition, Winter 1968 Add; Class A, CCases N-2, N-10

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Dresser Industrial Valve Co.	SN: BV-02950	N/A	Unit #2 Pressurizer Safety Relief Valve	1977	Repaired/Replaced	Yes
Relief Valve	Dresser Industries Inc.	402625 SN: BN-04375	N/A	Valve, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in. Model 31739A, only for RV 200 location.	2001	Replacement	Yes

7. Description of Work:

This plan was for the replacement of 2-RV-200, Unit-1 Pressurizer Safety Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2226 psi. Test Temperature: 644 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Owner or Owner's Designee, Title

Charles H. Ballard

Engineering Technician

Date: 06/19/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 1-8-03 to 5-14-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226 ANI, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-040, MWO No. 2200200871
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1968 Edition, Winter 1968 Add; Class A, CCases N-2, N-10

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement (Yes or No)	ASME Code Stamped (Yes or No)
Valve	Dresser Industrial Valve Co.	SN: BM-07949	N/A	Unit #2 Pressurizer Safety Relief Valve	1977	Repaired/Replaced	Yes
Relief Valve	Dresser Industries Inc.	402625 SN: BS-03213	N/A	Valve, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in. Model 31739A, only for RV 201 location.	2001	Replacement	Yes
Disc	Dresser Industries Inc.	95597-GX SN: ACM75	N/A	Disc, Maxiflow Relief Valve, 2 1/2 in., Model 31739A, Dresser P/N 1840404N, ASME SB-637 Gr. 688	1995	Replacement	Yes

7. Description of Work:

This plan was for the replacement of Unit-2 Pressurizer Safety Valve, 2-RV-201.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2226 psi. Test Temperature: 644 Deg. F

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)

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 1-8-03 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 ANI, MD 647
National Board, State, and Endorsements

Date: June 13 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-030, MWO No. 2200201257
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1968 Edition, Winter 1968 Add; Class A, CCases 1581, N-2, N-10

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Dresser Industries	SN: BY11098	N/A	Unit #2 Pressurizer Electromatic Power Operated Safety Valve	1977	Repaired/Replaced	No
Bellows Assembly	Dresser Industries Inc.	404221 Flange Ht#: 66271A	N/A	Bellows, Assembly (Pilot), PN: 1848505N, 5C Flange ASTM A-479, Tp. 316L, BGE Drwg #12965-0022 Item 5	2001	Replacement	No

7. Description of Work:

This plan was for the rebuilding of 2-ERV-404, the Pressurizer Electromatic Power Operated Relief Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2226 psi. Test Temperature: 644 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 4-8-03 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: _____

NB8226 AWI, MD647
National Board, State, and Endorsements

Date: June 13, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-069a, MWO No. 2200201333
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970
Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	2-CKVCVC-186	N/A	#21 Regen. Heat Exch. to #22B RCS Cold Leg Loop Check Valve	1977	Repaired/Replaced	Yes
Check Valve	Enertech Inc.	408934 SN: 11258	N/A	Valve, Nozzle Check, 2 in., 1500 lb., Large Groove Flanged end connections, Enertech, Tp. KRV	2002	Replacement	Yes

7. Description of Work:

This plan was for the replacement of 2-CKVCVC-186, #21 Regen. Heat Exch. to #22B RCS Cold Leg Loop Check Valve. ES200100689-000 allowed for the replacement of the existing type valve with a new design check valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2355 psi. Test Temperature: 375 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard

Engineering Technician

Date: _____

06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 2-4-03 to 5-6-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: _____

NB8226 ANI, MD643

National Board, State, and Endorsements

Date: _____ 200 _____

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-069b, MWO No. 2200201333
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Piping System	Bechtel	2"CC-5-2004	N/A	#21 Regen. Heat Exch. to #22B RCS Cold Leg Loop	1977	Repaired/Replaced	No
Pipe	DuBose National Energy Services Inc.	400298 Ht #: 32789	N/A	Pipe, 2 in., Sch. 160, ASME SA-376, Tp. 316	2000	Replacement	No
Nut	Mackson Inc.	408227 Ht. #: S44018	N/A	Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H	2002	Replacement	No
Allthread Rod	Nova Machine Products Corp.	402325 Ht. #: 69541	N/A	Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7	2000	Replacement	No
Flange	DuBose National Energy Services Inc.	409374 Ht. Code: BHI & BHZ	N/A	Flange, 2 in., Sch 160, 1500 lb., Large Tongue, Weld Neck, ASME SA-182, Tp. F 316	2003	Replacement	No

7. Description of Work:

This plan was for the replacement of piping, flanges, hangers and fasteners on 2"CC-5-2004 needed to support the replacement of 2-CKVCVC-186, #21 Regen. Heat Exch. to #22B RCS Cold Leg Loop Check Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2355 psi. Test Temperature: 375 Deg. F

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)

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI Surface Examination of the affected component was performed to satisfy Section XI Pre-Service Requirements. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 2-4-03 to 5-6-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NB8226-NI, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/19/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-037, MWO No. 2200202486
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: Two

4. Identification of System: System Number 061 System Name: Containment Spray

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970
Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Valve	Masonellian International Inc.	SN: H-59104-1	N/A	#21 Containment Spray Header Isolation Control Valve	1977	Repaired/Replaced	No
Valve Plug	Masonellian Dresser C/O Eastern Controls	41449-GX SN: A12421-7	N/A	Plug, 8 in. Masonellian Valve, ASTM A-479, Tp. 316, P/N: 013439-010-1N3	1990	Replacement	No

7. Description of Work:

This plan was for the rebuilding of 2-CV-4150, #21 Containment Spray Header Isolation Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity. The replacement valve wedge/plug/disc/trim received a Construction Code Surface Examination at the request of the resident ANII.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed:

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/19/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 8-29-02 to 4-14-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 ANI, MD 647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/18/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-003a, MWO No. 2200203541
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: ASME Draft Code for Pumps & Valves, 1968 Edition, March 1970
Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	2-CKVCVC-187	N/A	#21 Regen. Heat Exch. to #21A RCS Cold Leg Loop Check Valve	1977	Repaired/Replaced	Yes
Check Valve	Enertech Inc.	408934 SN: 11261	N/A	Valve, Nozzle Check, 2 in., 1500 lb., Large Groove Flanged end connections, Enertech, Tp. KRV	2002	Replacement	Yes

7. Description of Work:

This plan was for the work needed to replace 2-CKVCVC-187, #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop Check Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2355 psi. Test Temperature: 375 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/ACertificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, TitleCharles H. Ballard
Engineering TechnicianDate: 06/18/2003**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 2-4-03 to 5-25-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's SignatureCommissions: NB8226 ANI, MD647
National Board, State, and EndorsementsDate: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/18/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-003b, MWO No. 2200203541
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	2"CC-5-2005	N/A	#21 Regen. Heat Exch. to #21A RCS Cold Leg Loop	1977	Repaired/Replaced	No
Nut	Mackson Inc.	406783 Ht.#S44018	N/A	Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H	2002	Replacement	No
Allthread Rod	Nova Machine Products Corp.	402325 Ht.#: 69541	N/A	Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7	2000	Replacement	No
Flange	DuBose National Energy Services Inc.	409374 Ht. Code: BHI	N/A	Flange, 2 in., Sch 160, 1500 lb., Large Tongue, Weld Neck, ASME SA-182, Tp. F 316	2003	Replacement	No
Pipe	DuBose National Energy Services Inc.	400298 Ht #: 8324H	N/A	Pipe, 2 in., Sch. 160, ASME SA-376, Tp. 316	2000	Replacement	No

7. Description of Work:

This plan was for the piping, flanges, fasteners and hanger support work needed to support the replacement of 2-CKVCVC-187, #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop Check Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2355 psi. Test Temperature: 375 Deg. F

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)

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI Surface Examination of the affected component was performed to satisfy Section XI Pre-Service Requirements. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/18/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 2-4-03 to 5-4-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NB3226 ANT, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 12/10/2002
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 3
 (address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-043, MWO No. 2200203549
 (address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
 (name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
 (address) Section XI Class: Two

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: Combustion Engineering Spec 8067-487-403 For Reciprocating Charging Pump

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pump	Combustion Engineering	SN: 2037	N/A	No. 21 Charging Pump	1988	Repaired/Replaced	No
Stud	ABB Combustion Engineering	13453-GX Ht.#M60071	N/A	Stud, Fluid Cylinder to Frame, 1 3/8 in. X 6 TPI X 7 1/2 in., Chrome Plated, P/N 2408000	1996	Replacement	No
Stud	ABB Combustion Engineering	70353LNP Ht.#M50766	N/A	Stud, Top Cover Plate, 1 1/2 in. X 6 TPI X 5 5/8 in., Chrome Plated, Tapered, P/N 2400940	1995	Replacement	No
Rod	Energy & Process Corporation	406304 Ht.# M60635	N/A	Rod, Allthread, 5/8 in. X 11 TPI, SA-193 Gr. B7	2002	Replacement	No
Allthread Rod	Nova Machine Products Corp.	402325 Ht.#69541	N/A	Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7	2000	Replacement	No
Cylinder	ABB Combustion Engineering	15369-MX SN 604878-001	N/A	Cylinder, Fluid Head, Armco Charging Pump J-531-M6DF, ASTM A 705, Tp. XM-12, BGE Dwg. #12105-0044	1989	Replacement	No
Stud	Consolidated Power Supply	408706 Ht.# 38700	N/A	Stud, Fluid Cylinder to Frame, 1 3/8 in. X 6 TPI X 7 1/2 in., Chrome Plated, P/N 2408000	2002	Replacement	No
Stud	Consolidated Power Supply	408706 Ht.# 38700	N/A	Stud, Top Cover Plate, 1 1/2 in. X 6 TPI X 5 5/8 in., Chrome Plated, Tapered, P/N 2400940	2002	Replacement	No

7. Description of Work:

This plan was to allow for the rebuilding of #21 Charging Pump.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
 Pressure: 2360 psi. Test Temperature: 120 Deg. F

FORM NIS-2 (Back)

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

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard

Engineering Technician

Date: _____

12/10/2002

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9/19/02 to 2/21/03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions: _____

MD 980

NA 7822 NA NS A RI

National Board, State, and Endorsements

Date: 2/21 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/17/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2002-2-066b, MWO No. 2200203695
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: Two

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement (Yes or No)	ASME Code Stamped (Yes or No)
Pipe Support	Bechtel	10"GC1-2002	N/A	#21 LPSI Pump Discharge Check Valve Pipe Support	1977	Repaired/Replaced	No
Strut, Sway	Anvil International Inc. (Grinnell Pipe Supports)	409318	N/A	Strut, Sway, Grinnell Fig. 211N, Size 2, Dwg. 13600-674, Item 9	2002	Replacement	No

7. Description of Work:

This plan was for the replacement of sway strut R12 on #21 LPSI Pump discharge line 2#GC-1-2002.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

A Section XI VT-3 Visual Examination of the affected component support was performed prior to the system being returned to service.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/17/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 12-30-02 to 6-4-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: _____

NB8226 ANI, MD647
National Board, State, and Endorsements

Date: _____

June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/23/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-022, MWO No. 2200300789
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B31.1.0 1967 Edition, CCases N-2, N-10

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced (Yes or No)	ASME Code Stamped (Yes or No)
Valve	ITT Hammel-Dahl	2-CV-618	N/A	#21B Safety Injection Tank, Reactor Safeguards Check Valve leakage drain CV to R.W.T.	1977	Repaired/Replaced	No
Nut	Cardinal Industrial Products Inc.	57533-GX Ht.#: 212217	N/A	Nut, Heavy Hex, 9/16 in. X 12 TPI, ASME SA-194 Gr. 2H	1992	Replacement	No
Rod	Cardinal Industrial Products Inc.	88627-GX Ht.#: 8860543	N/A	Rod, Allthread, 9/16 in. X 12 TPI, ASME SA-193 Gr. B7	1994	Replacement	No

7. Description of Work:

This plan was for the replacement of fastener material for 2-CV-618, #21B Safety Injection Tank, Reactor Safeguards Check Valve leakage drain CV to R.W.T.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/23/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 4-1-03 to 4-17-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226ANI, MD647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/18/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-013b, MWO No. 2200301027
(address) (P.O. no., job no., etc.)
3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: Two
4. Identification of System: System Number 041 System Name: Chemical Volume Control
5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class Two
(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	2" CC-7-2003	N/A	Charging Pump discharge to CVs downstream of Regen. HX	1977	Repaired/Replaced	No
Pipe	DuBose National Energy Services Inc.	400298 Ht #: 32789	N/A	Pipe, 2 in., Sch. 160, ASME SA-376, Tp. 316	2000	Replacement	No
Nut	Mackson Inc.	400066 Heat Code: JKX	N/A	Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H	2000	Replacement	No
Allthread Rod	DuBose National Energy Services Inc.	48053LNP Heat #: S16975	N/A	Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7	1996	Replacement	No
Flange	DuBose National Energy Services Inc.	409374 Ht. Code: BHZ	N/A	Flange, 2 in., Sch 160, 1500 lb., Large Tongue, Socketweld, ASME SA-182, Tp. F 316	2003	Replacement	No

7. Description of Work:

This plan was for the piping, flanges, fasteners and hanger work needed to support the replacement of 2-KVCVC-184, #21 Regen. Heat Exchanger Inlet Check Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2350 psi. Test Temperature: 108 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/18/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 3-8-03 to 5-2-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NB8226 AFE, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/19/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-018a, MWO No. 2200301119
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: Two

4. Identification of System: System Number 083 System Name: Main Steam & SG Blowdown

5. (a) Applicable Construction Code and Class: ASME B31.1.0 1967 Edition, 1972 Add

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced (Yes or No)	ASME Code Stamped
Piping System	Bechtel	34"EB-1-2005	N/A	#22 Steam Generator Main Steam Discharge Piping	1977	Repaired/Replaced	No

7. Description of Work:

This plan was for the repairs to the eroded areas on 2-EB-1-2005, #22 Steam Generator Main Steam Discharge Piping. It is also for the cutting and rewelding of the pipe to allow access to perform repairs on 2-FO-4009 and relocate the name plate.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 851 psi. Test Temperature: 525 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI Surface Examination of the affected component was performed to satisfy Section XI Pre-Service Requirements. A Section XI Ultrasonic Examination of the affected component was performed to satisfy Section XI Pre-Service NDE Requirements. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg.Guide 1.147.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/19/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 3-19-03 to 4-23-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 ANI, MD 647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/19/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-018b, MWO No. 2200301119
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: Two

4. Identification of System: System Number 083 System Name: Main Steam & SG Blowdown

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1971 Edition, Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Piping System	B.I.F. Inc.	2-FO-4009	N/A	#22 Steam Generator Main Steam Discharge Piping Flow Restrictor	1977	Repaired/Replaced	Yes

7. Description of Work:

This plan was for the repairs/weld build-up on 2-FO-4009, #22 Steam Generator Main Steam Discharge Piping Flow Restrictor.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/19/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 3-19-03 to 4-23-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 ANI, MD 647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/19/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-018c, MWO No. 2200301119
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: Two

4. Identification of System: System Number 083 System Name: Main Steam & SG Blowdown

5. (a) Applicable Construction Code and Class: ASME B31.1.0 1967 Edition, 1972 Add

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Piping System	Bechtel	34"EB-1-2004	N/A	#21 Steam Generator Main Steam Discharge Piping	1977	Repaired/Replaced	No

7. Description of Work:

This plan was for the relocation of the name plate for 2-FO-3990, #21 Steam Generator Main Steam Discharge Piping Flow Restrictor.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: Charles H. Ballard

Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/19/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 3-19-03 to 4-23-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226 AWE, MD647
National Board, State, and Endorsements

Date: June 20, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/23/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-023, MWO No. 2200301603
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement (Yes or No)	ASME Code Stamped (Yes or No)
Piping System	Bechtel	1" & under CC-9	N/A	Reactor Cooling Sys. Instrumentation	1970	Repaired/Replaced	No
Tee	Parker Hannifin Corp	86944-GX Heat Code: 493H	N/A	Tee, Union, 3/4 in., Parker Hannifin, P/N 12-8-8JBZ-SS, ASTM/ASME A/SA182 or A/SA479, Tp. 316	1993	Replacement	No
Plug	Parker Hannifin Corp	407857 Heat Code: CHMI	N/A	Plug, 1/2 in., Parker Hannifin P/N 8FNZ-SS, ASTM/ASME A/SA182 or A/SA479, Tp. 316,	2002	Replacement	No

7. Description of Work:

This plan was for the work and parts needed to replace the Test Tee and Plug on the Low Pressure side of 2-PDT-111B, Reactor Cooling System Instrumentation.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Owner of Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/23/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 3-24-03 to 4-21-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226 NIT, MD647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-025, MWO No. 2200301643
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: Two

4. Identification of System: System Number 052 System Name: Safety Injection

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class Two

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Pipe Support	Bechtel	6"GC3-2001	N/A	HPSI Pump Suction from SD Cooling HX Discharge	1977	Repaired/Replaced	No
Bar	DuBose National Energy Services Inc.	400428 Ht#: JB4309	N/A	Bar, Flat, 2 in. x 1/4 in., ASME SA-36, Carbon Steel	2001	Replacement	No

7. Description of Work:

This plan added a shim plate and fillet welds to hanger R13 on line 6"GC3-2001.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

A Section XI VT-3 Visual Examination of the affected component support was performed prior to the system being returned to service.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 3-27-03 to 4-7-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 ANI MD 647
National Board, State, and Endorsements

Date: June 6, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-028, MWO No. 2200301748
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: Two

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1995 Edition, 1996 Add., Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement (Yes or No)	ASME Code Stamped (Yes or No)
Valve	Enertech	SN: 11260	N/A	#21 Regen. Heat Exchanger Inlet Check Valve (Containment Isolation)	1977	Repaired/Replaced	Yes
Check Valve	Enertech Inc.	408934 SN: 11263	N/A	Valve, Nozzle Check, 2 in., 1500 lb., Large Groove Flanged end connections, Enertech, Tp. KRV	2002	Replacement	Yes

7. Description of Work:

This plan was for the replacement of 2-CKVCVC-184, #21 Regen. Heat Exchanger Inlet Check Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2350 psi. Test Temperature: 108 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 4-5-03 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 ANI, MD647
National Board, State, and Endorsements

Date: June 13, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/05/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 2003-2-029, MWO No. 2200301752
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 041 System Name: Chemical Volume Control

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1995 Edition, 1996 Add., Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Valve	Enertech	SN: 11262	N/A	#21 Regen. Heat Exch. to #21A RCS Cold Leg Loop CV By Pass Check Valve	1977	Repaired/Replaced	Yes
Check Valve	Enertech Inc.	408934 SN: 11260	N/A	Valve, Nozzle Check, 2 in., 1500 lb., Large Groove Flanged end connections, Enertech, Tp. KRV	2002	Replacement	Yes

7. Description of Work:

This plan was for the replacement of 2-CKVCVC-435, #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop CV By Pass Check Valve.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2355 psi. Test Temperature: 375 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/05/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 4-5-03 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NB 8226 ANF MD 647
National Board, State, and Endorsements

Date: June 13, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/22/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SG-2-001a, MWO No. S199601526
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One & Two

4. Identification of System: System Number 64/83 System Name: Steam Generator Replacement

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1965 Edition, Winter 1967 Add; Class
A CCases: 1332-2, 1332-4, 1359-1

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pressure Vessel	Combustion Engineering	CE 67507	20924	#21 Steam Generator	1971	Repaired/Replaced	Yes
Steam Generator	Babcock & Wilcock Canada	4621CCNP-21-9000 SN: 7811-03	198	Steam Generator Lower Assembly, Primary Side Head, Tubes and Secondary Shell up to Transition	2001	Replacement	Yes

7. Description of Work:

This plan was for the replacement of the primary side head, tubes, and secondary side shell up to the transition area of #21 Steam Generator. This also documents the reconfiguration of the Feed Nozzle and Surface Blowdown Nozzle.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 890 psi. Test Temperature: 532 Deg. F

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)

9. Remarks:

Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147. A Section XI Surface Examination, Eddy Current Examination and Ultrasonic Examination of the affected component was performed to satisfy Section XI Pre-Service NDE Requirements. With an approved Relief Request from NRC, we were allowed to use the 1993 Addenda of the 1992 Edition of Section III. This addenda permits the use of wire type IQI's (Image Quality Indicators) as an alternative to plaque type IQI's for radiographic examinations. Plaque type IQI's are required by Section III, 1992 Edition which is referenced by Code Case N-416-1 and by the installation code which is Section III, 1989 Edition.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/22/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9-2-02 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB3226 ANT, MD647
National Board, State, and Endorsements

Date: May 27, 2003

**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 4

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3
(name and address of NPT Certificate Holder)
2. Manufactured for SGT Ltd, P.O. Box 1218, Lusby, Maryland 20657
(name and address of Purchaser)
3. Location of Installation Calvert Cliffs Nuclear Power Plant (CCNPP) Units 1&2, Lusby, Maryland 20657-4702
(name and address)
4. Type: 7811E001 Rev. 6 See attached List #1 See List #1 - 2002
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1989 No Addenda 1 See attached List #2
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(no.)
7. Remarks: Secondary side hydrotest has not been performed. Post-hydrotest final NDE has not been performed on secondary side. Previous N-2 form for primary head (Manufactured by The Japan Steel Works Ltd., Muroran Plant 4, National Board No. 409) attached.

8. Nom. thickness (in.) See List #3 Min. design thickness (in.) See List #3 Dia. ID (ft & in.) See List #3 Length overall (ft & in.) 39'-8 7/16"

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 7811-03	198
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

RENEWED
AUG 23 2002
[Signature]

10. Design pressure See List #4 psi. Temp. See List #4 °F. Hydro. test pressure See List #4 at temp. °F
(when applicable)

FORM N-2 (Back - Pg. 2 of 4)

Certificate Holder's Serial Nos. 7811-03through -

CERTIFICATION OF DESIGN

Design specifications certified by E.S. Broczkowski Jr. P.E. State MD Reg. no. 12424Design report* certified by L. Vizi ^(when applicable) P.E. Prov. Ont. Reg. no. 48244208
_(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Steam Generator Sub-Assembly (See Fig. 1) conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2791 Expires January 23, 2004Date August 22, 02 Name Babcock & Wilcox Canada Signed [Signature] _(Authorized representative) Manager, QA
_(NPT Certificate Holder)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario and employed by Technical Standards and Safety Authority

of Ontario have inspected these items described in this Data Report on Aug 22/02 and state that to

the best 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 or loss of any kind arising from or connected with this inspection.

Date 08/22/02 Signed [Signature] Commissions NB#8112-B-N.
_(Authorized Inspector) _{(Natl. Bd. (incl. endorsements) and state or prov. and no.)}

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

Page 3 of 4

Certificate Holder's Serial Nos. 7811-03 through -
National Board Nos. 198 through -

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3
(Name and address of NPT Certificate Holder)
2. Manufactured for SGT Ltd. P.O. Box 1219, Lusby, Maryland 20657
(Name and address of Purchaser)
3. Location of Installation CCNPP Units 1&2, Lusby, Maryland 20657-4702

4. Type:
5. ASME Code:

List #1:

	Material Specification	Tensile Strength
Primary Head	SA-508 Cl. 3a	90 ksi
Primary Head Inlet Nozzle	SA-508 Cl. 3a	90 ksi
Primary Head Outlet Nozzle	SA-508 Cl. 3a	90 ksi
Base Support Stool	SA-533 Type B Cl. 1	80 ksi
Tubesheet	SA-508 Cl. 3a	90 ksi
Tubes	SB-163 N-20-4 (Alloy 690)	80 ksi
Secondary Side Shell Cans	SA-508 Cl. 3a	90 ksi
Secondary Side Shell Cone	SA-508 Cl. 3a	90 ksi
Primary Manway Covers	SA-533 Type B Cl. 1	80 ksi
Secondary Handhole Covers	SA-533 Type B Cl. 1	80 ksi
Secondary Inspection Port Covers	SA-533 Type B Cl. 1	80 ksi
Small Nozzles - Primary Side	SB-166 N06690	69.9 ksi
Small Nozzles - Secondary Side	SA-350 LF2	70 ksi
Blowdown Nozzles	SFA 5.6 E7018-A1 Buildup	70 ksi
Recirculation Nozzle	SFA 5.6 E7018-A1 Buildup	70 ksi

List #2:

Code Cases:	N-20-4
	N-411-1
	N-474-1
	2142-1
	2143-1
	N-401-1
	N-416-1

List #3:

	Nominal Thickness	Min. Design Thickness	Inner Diameter
Primary Head	7"	7.000"	-
Tubesheet	21.875"	21.500"	-
Secondary Side Shell Cans			
1) Shell above Tubesheet	4.375"	4.25"	13'-3 3/16"
2) Remainder of Shell	2.875"	2.77"	13'-3 3/16"
Secondary Shell Cone			
1) Above Secondary Shell Can	5.125"	5.000"	-
2) Conical Portion	4.625"	4.500"	-
Tubes	0.042"	0.038"	0.666" Nom.

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

Page 4 of 4

Certificate Holder's Serial Nos. 7811-03 through -
National Board Nos. 198 through -

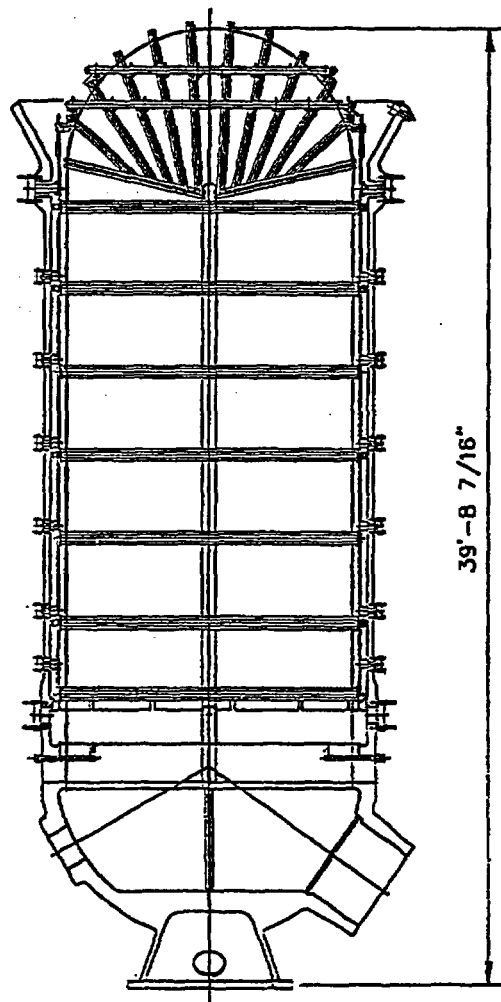
1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3
(Name and address of NPT Certificate Holder)
2. Manufactured for SGT Ltd. P.O. Box 1219, Lusby, Maryland 20657
(Name and address of Purchaser)
3. Location of Installation CCNPP Units 1&2, Lusby, Maryland 20657-4702

4. Type:

5. ASME Code:

List #4:

	Secondary Side	Primary Side
Design Pressure	1015 psia	2500 psia
Design Temperature	550°F	850°F
Hydrotest Pressure	-	3125 psia
Hydrotest Temperature	-	70°F



**FIGURE 1
GENERAL ARRANGEMENT**

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 2

1. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chubu-machi, Muroran City, 951-9505
(Name and address of NPT Certificate Holder) Japan
2. Manufactured for Babcock and Wilcox, 991 Corporation Blvd., Cambridge, Ontario, M1P 5Y1, Canada
(Name and address of Purchaser)
3. Location of installation Calvert Cliffs Nuclear Power Plant Unit 1 & 2 Calvert County, Maryland
(Name and address)
4. Type: H747951W, Rev. 2 SA-508, C1 1 Min. 90ksi - 1999
(drawing no.) (ASME spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1989 No addenda 1 -
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - - - - -
(no.) (Revision) (Date)
7. Remarks: Hydrostatic test is not performed in The Japan Steel Works, Ltd.
Cladding thickness is min. 0.20" from base metal.
Cladding materials are SFA-5.4, AWS Cl. E309L-16 + E308L-16 and SFA-5.9 ER309L + ER308L.
P.O. No. : CM3302064 JSW Job No. Y FNS-4306
Heat No. : 98K75-1-1 JSW PC. No. : 1
8. Nom. thickness (in.) 7-1/4" Min. design thickness (in.) 7.00" Dia. ID (ft & in.) 151.37" Length overall (ft & in.) 51-7.72"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 1048	409	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

BWD
ENGINEERING INSPECTION

OCT 21 1999

O.C. 16
APPROVED

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure N/A at temp. °F
(When applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 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.

(12/88)

This form (E30040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial Nos. 1042 through -

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2725 Expires July 21, 2001
 Date Sept. 8, 1999 Name The Japan Steel Works, Ltd.,
Muroran Plant Signed for J. T. Hoshida
(NPT Certificate Holder) (authorized representative)
J. T. HOSHIDA

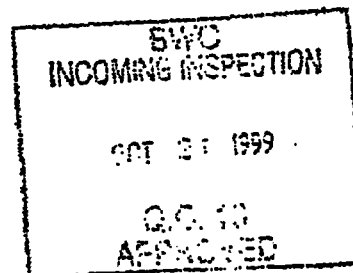
CERTIFICATE OF INSPECTION

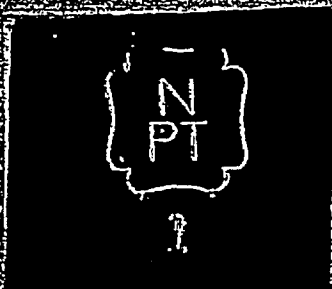
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
ILLINOIS and employed by H.S.S.I. & T. Co.
 of HARTFORD, CT. have inspected these items described in this Data Report on September 8, 99 and state that to the
 best 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 data 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 or
 loss of any kind arising from or connected with this inspection.

Date Sept 8, 1999 Signed H. Kishida Commissions NB # 10104 N, B, A
(Authorized Inspector) (Netl. Bd. Incl. endorsement) and state or prov. and no.
H. KISHIDA

*Name plate removed for further manufacture
 Oct 19/99 will be forwarded to the customer
 in the history folder
 Conf March, Quality Records Sept 25/02*

*M. The ANI
 4.26.02*





NATIONAL BOARD NO. 198

CERTIFIED BY

BABCOCK & WILCOX CANADA

SERIAL NO. 7811-03

FOR

CAIYENT CLIFFS NUCLEAR POWER PLANT

UNITS 1 AND 2

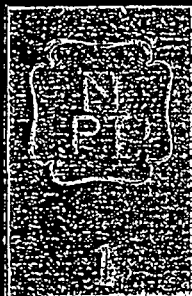
REPLACEMENT STEAM GENERATOR

ASME CODE SECTION III CLASS 1 1989 NO ADDENDA

NAT'L BD.

7409

(NATIONAL BOARD SERIAL NUMBER)



CERTIFIED BY
THE JAPAN STEEL WORKS, LTD.
MURORAN PLANT

(NAME OF CERTIFICATE HOLDER)

10446

(CERTIFICATE HOLDER'S SERIAL NUMBER)

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: <u>Calvert Cliffs Nuclear Power Plant, Inc.</u> (name)		Date: <u>05/22/2003</u>					
<u>1650 Calvert Cliffs Parkway; Lusby, MD 20657</u> (address)		Sheet 1 of 2					
2. Plant: <u>Calvert Cliffs Nuclear Power Plant</u> (name)		Unit: <u>Two</u>					
<u>1650 Calvert Cliffs Parkway; Lusby, MD 20657</u> (address)		R&R No. <u>SG-2-001b</u> , MWO No. <u>S199601526</u> (P.O. no., job no., etc.)					
3. Work Performed by: <u>Calvert Cliffs Nuclear Power Plant Dept.</u> (name)		Type Code Symbol Stamp: <u>N/A</u>					
<u>1650 Calvert Cliffs Parkway, Lusby, MD 20657</u> (address)		Authorization No.: <u>N/A</u>					
		Exp Date: <u>N/A</u>					
		Section XI Class: <u>One</u>					
4. Identification of System: System Number <u>064</u> System Name: <u>Reactor Coolant System</u>							
5. (a) Applicable Construction Code and Class: <u>ASME B31.7 1969 Edition, Summer 1971 Add; Class One</u>							
(b) Applicable Sect XI Ed. for Repairs/Replacement <u>1998 Edition</u>							
6. Identification of Components Repaired or Replaced and Replacement Components:							
Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced (Yes or No)	ASME Code Stamped (Yes or No)
Piping System	Combustion Engineering	30" & 42" CC-1 Piping	N/A	Reactor Coolant Piping	1974	Repaired/Replaced	Yes
7. Description of Work:							
This plan was for the Reactor Coolant Hot Leg and Cold Leg Piping work to support the replacement of #21 Steam Generator.							
8. Tests Conducted: Hydrostatic: <input type="checkbox"/> Pneumatic: <input type="checkbox"/> Nominal Operating Pressure: Inservice: <input type="checkbox"/> Leakage: <input checked="" type="checkbox"/> Functional: <input type="checkbox"/>							
Pressure: <u>2273</u> psi. Test Temperature: <u>532</u> Deg. F							

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147. A Section XI Surface Examination and Ultrasonic Examination of the affected component was performed to satisfy Section XI Pre-Service NDE Requirements. With an approved Relief Request from NRC, we were allowed to use the 1993 Addenda of the 1992 Edition of Section III. This addenda permits the use of wire type IQI's (Image Quality Indicators) as an alternative to plaque type IQI's for radiographic examinations. Plaque type IQI's are required by Section III, 1992 Edition which is referenced by Code Case N-416-1 and by the installation code which is Section III, 1989 Edition.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: Charles H. Ballard

Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/22/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9-2-02 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226 ANI, MD647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/23/2003
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 3
 (address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SG-2-001c, MWO No. S199601526
 (address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
 (name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
 (address) Section XI Class: Two

4. Identification of System: System Number Var. System Name: Main Steam, B/D, FW, Aux/Feed, & Recir

5. (a) Applicable Construction Code and Class: ASME B31.1.0 1967 Edition, 1972 Add
 (b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	N/A	N/A	Main Steam, Feed Water, Blowdown, Wet-Layup Recirc. & Aux. Feed Water Sys.	1975	Repaired/Replaced	No
Plate	SGT-Blowdown	ES199601526-210 Ht.#: A1X2066	N/A	Plate, Steel 3/8 in. X 48 in. X 96 in., ASME SA-36	2002	Replacement	No
Elbow	SGT-Aux. Feedwater	ES199601526-218 Ht.#: V1493 & MUMF	N/A	Elbow, Pipe, 4 in., 90 Deg., Sch.80, Long Radius, butt weld, ASME SA-234, Gr. WPB	2002	Replacement	No
Gate Valve	SGT-Wet-Layup Recirc.	ES199601526-211	N/A	Valve, Gate, 2 in., 800 lb., ASME SA-105	2002	Replacement	No
Pipe	SGT-Wet-Layup Recirc.	ES199601526-211 Ht.#: A62363	N/A	Pipe, 2 in., Sch. 80, ASME SA-106, Gr. B	2002	Replacement	No
Pipe Clamp Base	SGT-Blowdown	ES199601526-210	N/A	Clamp, Pipe Anchor Base, 2 in. for PG-41 / PG-43 per Drwg.# FSK-MP-0571SH0003 & 0005, Part# 5.	2002	Replacement	No
Tube Steel	SGT-Blowdown	ES199601526-210 Ht.#: A1T1234	N/A	Tube, Steel, 4 in. X 4 in. X 3/8 in., ASTM A-500 Gr. B	2002	Replacement	No
Pipe	SGT-Blowdown	ES199601526-210	N/A	Pipe, 2 in., Sch. 80, ASTM A-335, Gr. P22	2002	Replacement	No
Elbow	SGT-Blowdown	ES199601526-210	N/A	Elbow, Pipe, 2 in., 90 Deg., 3000 lb., Socketweld, ASTM A-182 Gr. F-22	2002	Replacement	No
Coupling	SGT-Blowdown	ES199601526-210 Ht.#: 2093ANC	N/A	Coupling, 2 in., 3000 lb., Socketweld, ASTM A-182, Tp. F22	2002	Replacement	No
Angle	SGT-Blowdown	ES199601526-210 Ht.#: J21300	N/A	Angle, 4 in. X 4 in. X 1/4 in., ASTM A-36	2002	Replacement	No
Nut	SGT-Blowdown	ES199601526-210	N/A	Nut, Hex. Head, 1/2 in. X 13 TPI, SA-194 Gr. 2H	2002	Replacement	No
Eye Nut	SGT-Blowdown	ES199601526-210	N/A	Eye Nut, Weldless, 1/2 in., Grinnell, Fig. 290N	2002	Replacement	No

Plate, C.S.	SGT-Blowdown	ES199601526-210	N/A	Plate, Steel, 1/2 in. X 48 in. X 96 in., ASTM-A36	2002	Replacement	No
Angle	SGT-Blowdown	ES199601526-210 Ht.#: 413276	N/A	Angle, 1 in. X 1 in. X 1/4 in., ATSM A-36	2002	Replacement	No
Pipe Clamp	SGT-Blowdown	ES199601526-210	N/A	Clamp, Pipe, 2 in., for use on Grinnell Fig. 295N, with Hardware	2002	Replacement	No
Spring Can	SGT-Blowdown	ES199601526-210	N/A	Support, Variable Spring Can, Grinnell Figure # B-268N, Tp. A, Size 000	2002	Replacement	No
Fitting	SGT-Blowdown	ES199601526-210	N/A	Lateral, 2 in., 3000 lb., Socketweld, ASTM A-182 Gr. F22	2002	Replacement	No
Elbow	SGT-Blowdown	ES199601526-210	N/A	Elbow, Pipe, 2 in., 45 Deg., 3000 lb., Socketweld, ASTM A-182 Gr. F-22	2002	Replacement	No
Elbow	SGT-Blowdown	ES199601526-210	N/A	Elbow, Pipe, 2 in., 90 Deg., Sch.80, Long Radius, butt weld, ASTM A-234 Gr. WP22	2002	Replacement	No
Angle	SGT-Blowdown	ES199601526-210 Ht.#: JD1897	N/A	Angle, 3 in. X 3 in. X 1/4 in., ASTM A-36	2002	Replacement	No
Tube Steel	SGT-Blowdown	ES199601526-210 Ht.#: B1P5656/C18293	N/A	Tube Steel, 3 in. X 3 in. X 1/4 in., ASTM A-500 Gr. B	2002	Replacement	No
Plate, C.S.	SGT-Blowdown	ES199601526-210 Ht.#: W1L620	N/A	Plate, Steel, 1/4 in. X 48 in. X 96 in., ASTM A36	2002	Replacement	No
Radiographic Plug	SGT-Main Steam	ES199601526-208 Ht.#: AEM	N/A	Plug, Radiographic, 1 1/4 in. ASTM A675, Gr. 80	2002	Replacement	No
Pipe	SGT-Feedwater	ES199601526-209 Ht.#: J1K2439	N/A	Pipe, 16 in. Sch. 80, ASME SA-335 Gr. P22	2002	Replacement	No
Elbow	SGT-Feedwater	ES199601526-209	N/A	Elbow, Pipe, 16 in., 90 Deg., Sch.80, Long Radius, butt weld, ASME SA-234 Gr. WP22	2002	Replacement	No
Radiographic Plug	SGT-Feedwater	ES199601526-209	N/A	Plug, Radiographic, 1 1/4 in. ASTM A739, Gr. B22	2002	Replacement	No
Concentric Reducer	SGT-Wet-Layup Recirc.	ES199601526-211 Ht.#: JW6BA2	N/A	Reducer, Pipe, Concentric, 3 in. X 2 in., Sch. 80 ASTM A-234, Gr. WPB	2002	Replacement	No
Spring Can	SGT-Blowdown	ES199601526-210	N/A	Support, Variable Spring Can, Grinnell Figure # 268, Tp. B, Size 2	2002	Replacement	No
Spring Can	SGT-Blowdown	ES199601526-210	N/A	Support, Variable Spring Can, Grinnell Figure # 268, Tp. B, Size 3	2002	Replacement	No

7. Description of Work:

This plan was for the work to be done to the Main Steam, Blowdown, Feedwater, Aux. Feedwater and the Wet-Layup Recirc. lines that are associated with the replacement of #21 Steam Generator.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 890 psi. Test Temperature: 532 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg.Guide 1.147. A Section XI Surface Examination and Ultrasonic Examination of the affected component was performed to satisfy Section XI Pre-Service NDE Requirements. With an approved Relief Request from NRC, we were allowed to use the 1993 Addenda of the 1992 Edition of Section III. This addenda permits the use of wire type IQI's (Image Quality Indicators) as an alternative to plaque type IQI's for radiographic examinations. Plaque type IQI's are required by Section III, 1992 Edition which is referenced by Code Case N-416-1 and by the installation code which is Section III, 1989 Edition.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: Charles H. Ballard

Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/23/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9-2-02 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226 ALE, MD647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/22/2003
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
 (address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SG-2-001d, MWO No. S199601526
 (address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
 (name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
 (address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement (Yes or No)	ASME Code Stamped (Yes or No)
Piping System	Bechtel	1" & under CC-9	N/A	Reactor Cooling Sys. Instrumentation	1970	Repaired/Replaced	No
Tubing	SGT-Reactor Coolant Flow Indication	ES199601526-212 Ht#: V0049	N/A	Tubing, 3/4 in. X .065 Wall, ASME SA 213, Tp. 316	2002	Replacement	No
2D Tubing Clamp	SGT-Reactor Coolant Flow Indication	ES199601526-212 MWO #: 0200100026	N/A	Clamp, Tube, 3/4 in., 2 Directional, Mark #400, Girard P/N 3/4T-SS-2D, A/SA 276 or 479, Tp. 304/316	2002	Replacement	No
Tubing Union	SGT-Reactor Coolant Flow Indication	ES199601526-212	N/A	Union, Tubing, 3/4 in. Swagelok, P/N SS-12-TSW-6, ASTM/ASME A/SA182 or A/SA479, Tp. 316	2002	Replacement	No
Pipe	SGT-Reactor Coolant Flow Indication	ES199601526-212 Ht#: 7708H	N/A	Pipe, 1in. Sch 160, ASME SA-376, TP-316	2002	Replacement	No
Fitting	SGT-Reactor Coolant Flow Indication	ES199601526-212 Heat Code: CHPC	N/A	Fitting, 1 in. X 3/4 in. Pipe/Tubing Connector, Parker, P/N 12-1-AW	2002	Replacement	No

7. Description of Work:

This plan was for the Section XI, Class I, Reactor Coolant System Instrumentation Piping/Tubing and supports, one inch and under, work to support the replacement of #21 Steam Generator.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
 Pressure: N/A psi. Test Temperature: N/A Deg. F

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

FORM NIS-2 (Back)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/22/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9-2-02 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 A1E, MD 647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/22/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SG-2-001e, MWO No. S199601526
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One & Two

4. Identification of System: System Number 64/83 System Name: Steam Generator Replacement

5. (a) Applicable Construction Code and Class: AISC, Manual of Steel Construction, 6th Ed. 1963
(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Stamped (Yes or No)	ASME Code Stamped (Yes or No)
Comp. Support	Combustion Engineering	N/A	N/A	#21 Steam Generator Snubber and Sliding Base	1970	Repaired/Replaced	No
Stud	SGT-Steam Generator Supports	ES199601526-207 Ht.#: 14433	N/A	Stud, 2 1/4 in. X 4 1/2 TPI X 14 in., ASTM A-193, Gr. B7	2002	Replacement	No
Nut	SGT-Steam Generator Supports	ES199601526-207 Ht.#: 8991915	N/A	Nut, Heavy Hex, 2 1/4 in. X 4 1/2 TPI, ASTM A-194 Gr. 7	2002	Replacement	No
Washer	SGT-Steam Generator Supports	ES199601526-207	N/A	Washer, 2 1/4 in., Circular Hardened, ASME SA-193 Gr. B7	2002	Replacement	No
Plate	SGT-Steam Generator Supports	ES199601526-207	N/A	Plate, Shim, AISI 4140, 125 RMS Finish, Heat-Treat to RC-40	2002	Replacement	No
Capscrew	SGT-Steam Generator Supports	ES199601526-207	N/A	Capscrew, Socket Head, 1/2 in. X 13 TPI, UNC 3A, Countersunk per ASTM F-835	2002	Replacement	No

7. Description of Work:

This plan was for the work on the Sliding base and the brackets that hold #21 Steam Generator in place.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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)

9. Remarks:

A Section XI VT-3 Visual Examination of the affected component support was performed prior to the system being returned to service.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: Charles H. Ballard

Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/22/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9-2-02 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB3226 ANT, MD647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/22/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SG-2-002a, MWO No. S199601526
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One & Two

4. Identification of System: System Number 64/83 System Name: Steam Generator Replacement

5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. III, 1965 Edition, Winter 1967 Add; Class A CCases: 1332-2, 1332-4, 1359-1

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pressure Vessel	Combustion Engineering	CE 67506	20925	#22 Steam Generator	1971	Repaired/Replaced	Yes
Steam Generator	Babcock & Wilcock Canada	4621CCNP-21-9000 SN: 7811-04	199	Steam Generator Lower Assembly, Primary Side Head, Tubes and Secondary Shell up to Transition	2001	Replacement	Yes

7. Description of Work:

This plan was for the replacement of the primary side head, tubes, and secondary side shell up to the transition area of #22 Steam Generator. This also documents the reconfiguration of the Feed Nozzle and Surface Blowdown Nozzle.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 890 psi. Test Temperature: 532 Deg. F

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)

9. Remarks:

Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147. A Section XI Surface Examination, Eddy Current Examination and Ultrasonic Examination of the affected component was performed to satisfy Section XI Pre-Service NDE Requirements. With an approved Relief Request from NRC, we were allowed to use the 1993 Addenda of the 1992 Edition of Section III. This addenda permits the use of wire type IQI's (Image Quality Indicators) as an alternative to plaque type IQI's for radiographic examinations. Plaque type IQI's are required by Section III, 1992 Edition which is referenced by Code Case N-416-1 and by the installation code which is Section III, 1989 Edition.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/22/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9-2-02 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB8226 ANT, MD647
National Board, State, and Endorsements

Date: May 27 2003

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 4

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3
(name and address of NPT Certificate Holder)
2. Manufactured for SGT Ltd. P.O. Box 1219, Lusby, Maryland 20657
(name and address of Purchaser)
3. Location of Installation Calvert Cliffs Nuclear Power Plant (CCNPP) Units 1&2, Lusby, Maryland 20657-4702
(name and address)
4. Type: 7811E001 Rev. 6 See attached List #1 See List #1 - 2002
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1989 No Addenda 1 See attached List #2
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(no.)
7. Remarks: Secondary side hydrotest has not been performed. Post-hydrotest final NDE has not been performed on secondary side. Previous N-2 form for primary head (Manufactured by The Japan Steel Works Ltd., Muroran Plant 4, National Board No. 412) attached.

8. Nom. thickness (in.) See List #3 Min. design thickness (in.) See List #3 Dia. ID (ft & in.) See List #3 Length overall (ft & in.) 39'-8 7/16"

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 7811-04	199
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure See List #4 psi. Temp. See List #4 °F. Hydro. test pressure See List #4 at temp. °F
(when applicable)

FORM N-2 (Back - Pg. 2 of 4)

Certificate Holder's Serial Nos. 7811-04 through -

CERTIFICATION OF DESIGN

Design specifications certified by E.S. Broczkowski Jr. P.E. State MD Reg. no. 12424Design report* certified by L. Vizi (when applicable) P.E. Prov. Ont. Reg. no. 48244206
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Steam Generator Sub-Assembly (See Fig. 1) conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2791 Expires January 23, 2004Date August 8, 02 Name Babcock & Wilcox Canada Signed [Signature]
(NPT Certificate holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario and employed by Technical Standards and Safety Authority of Ontario have inspected these items described in this Data Report on Aug 9/02 and state that to

the best 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 or loss of any kind arising from or connected with this inspection.

Date Aug 9/02 Signed [Signature] Commissions NB10869ABNS 450NT
(Authorized Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

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

Page 3 of 4

Certificate Holder's Serial Nos. 7811-04 through -
National Board Nos. 199 through -

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3
(Name and address of NPT Certificate Holder)
2. Manufactured for SGT Ltd. P.O. Box 1219, Lusby, Maryland 20657
(Name and address of Purchaser)
3. Location of Installation CCNPP Units 1&2, Lusby, Maryland 20657-4702

4. Type:

5. ASME Code:

List #1:

	Material Specification	Tensile Strength
Primary Head	SA-508 Cl. 3a	90 ksi
Primary Head Inlet Nozzle	SA-508 Cl. 3a	90 ksi
Primary Head Outlet Nozzle	SA-508 Cl. 3a	90 ksi
Base Support Stool	SA-533 Type B Cl. 1	80 ksi
Tubesheet	SA-508 Cl. 3a	90 ksi
Tubes	SB-163 N-20-4 (Alloy 690)	80 ksi
Secondary Side Shell Cans	SA-508 Cl. 3a	90 ksi
Secondary Side Shell Cone	SA-508 Cl. 3a	90 ksi
Primary Manway Covers	SA-533 Type B Cl. 1	80 ksi
Secondary Handhole Covers	SA-533 Type B Cl. 1	80 ksi
Secondary Inspection Port Covers	SA-533 Type B Cl. 1	80 ksi
Small Nozzles - Primary Side	SB-166 N06690	69.9 ksi
Small Nozzles - Secondary Side	SA-350 LF2	70 ksi
Blowdown Nozzles	SFA 5.5 E7018-A1 Buildup	70 ksi
Recirculation Nozzle	SFA 5.5 E7018-A1 Buildup	70 ksi

List #2:

Code Cases:	N-20-4
	N-411-1
	N-474-1
	2142-1
	2143-1
	N-401-1
	N-416-1

List #3:

	Nominal Thickness	Min. Design Thickness	Inner Diameter
Primary Head	7"	7.000"	-
Tubesheet	21.875"	21.500"	-
Secondary Side Shell Cans			
1) Shell above Tubesheet	4.375"	4.25"	13'-3 3/16"
2) Remainder of Shell	2.875"	2.77"	13'-3 3/16"
Secondary Shell Cone			
1) Above Secondary Shell Can	5.125"	5.000"	-
2) Conical Portion	4.625"	4.500"	-
Tubes	0.042"	0.038"	0.666" Nom.

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

Page 4 of 4

Certificate Holder's Serial Nos. 7811-04 through -
National Board Nos. 199 through -

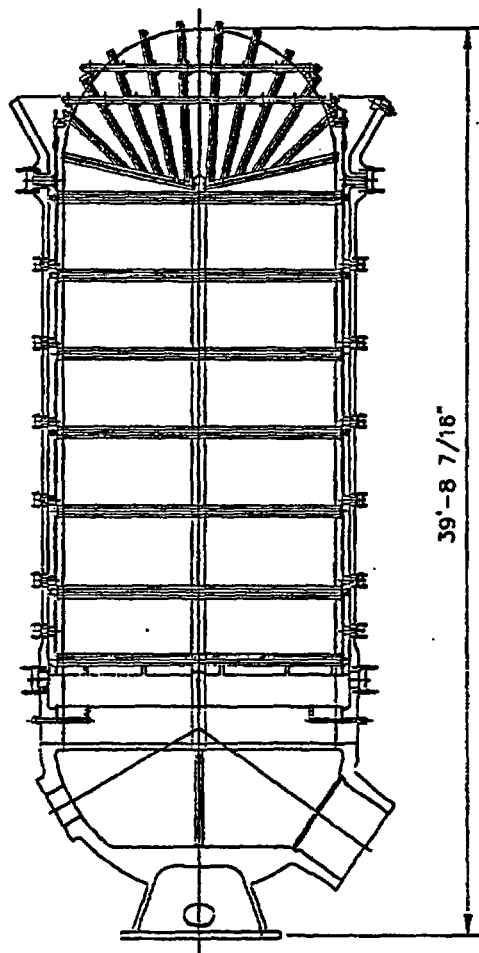
1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3
(name and address of 100% Certificate Holder)
2. Manufactured for SGT Ltd, P.O. Box 1219, Lusby, Maryland 20657
(name and address of Purchaser)
3. Location of Installation CCNPP Units 1&2, Lusby, Maryland 20657-4702

4. Type:

5. ASME Code:

List #4:

	Secondary Side	Primary Side
Design Pressure	1015 psia	2500 psia
Design Temperature	550°F	650°F
Hydrotest Pressure	-	3125 psia
Hydrotest Temperature	-	70°F



**FIGURE 1
GENERAL ARRANGEMENT**

JQA-99-233

22-1

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 2

1. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chatsu-machi, Muroran, Hokkaido, 051-8505
(name and address of NPT Certificate Holder) Japan
2. Manufactured for Babcock & Wilcox, 581 Coronation Blvd., Cambridge, Ontario, M1R 5V3, Canada
(name and address of Purchaser)
3. Location of installation Calvert Cliffs Nuclear Power Plant Unit 1 & 2 Calvert Country, Maryland
(name and address)
4. Type: N147951W, (Rev. 2) SA-508, Cl. 3a Min. 90ksi - 1999
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1989 No addenda 1 -
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(no.)
7. Remarks: Hydrostatic test is not performed in The Japan Steel Works, Ltd.
Cladding thickness is min. 0.20" from base metal.
Cladding materials are SPA-5.4, ARS Cl. E309L-16 + E308L-16 and SPA-5.9 ER309L + ER308L.
- P.O. No. : CM3302064 JSW Job No. : FN8-4306
Reat No. : 98W76-1-1 JSW PC. No. : 2
8. Nom. thickness (in.) 7-1/4" Min. design thickness (in.) 7.00" Dia. ID (ft & in.) 151.37" Length overall (ft & in.) 5'-7.72"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) <u>1049</u>	<u>412</u>
(2)	
(3)	
(4)	
(5)	
(6)	
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(9)	
(10)	
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(13)	
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(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
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(47)	
(48)	
(49)	
(50)	

EWC
INCOMING INSPECTION
NOV 6 1999
U.C. 16
APPROVED

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure N/A at temp. °F
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2" x 11, (2) information in items 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.

(12/88) This form (F0004) may be obtained from the Order Dept. ASME, 3120 Oak Ridge Dr., 60663-9999, Chicago, IL 60663-9999.

Design specifications certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

We certify that the statements made in this report are correct and that this (these) _____ Part
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2725 Expires July 21, 2001
 Date Sept. 27, 1999 Name The Japan Steel Works, Ltd
Muroran Plant Signed [Signature]
 (NPT Certificate Holder) (Authorized Representative)

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of ILLINOIS and employed by H. S. B. I. & I. Co. of HARTFORD, CT. have inspected these items described in this Data Report on Sept. 22, 1989, and state that to the best 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 or loss of any kind arising from or connected with this inspection.

Date Sept. 22, 1939 Signed [Signature] Commissions NE#10145 A.M.S.B
(Authorized Inspector) (Nat'l. Bd. Inoc. endorsements) and state or prov. and no. 1
H. KAWABATA

Home Plate removed for further manufacture
Jan 6/00 will be forwarded
to the customer in the vestary
docket
G. H. Park Property Records
Apr 25/02

MR ANI
4-26-02

BWC
INCOMING INSPECTION

NOV 8 1999

G.C. 16
APPROVED

W/O 808991

PTC 7811NG4733

Item 5195496

01.06.2000

NATL B.D.

NATIONAL BOARD SERIAL NUMBER

CERTIFIED BY

THE JAPAN STEEL WORKS LTD.

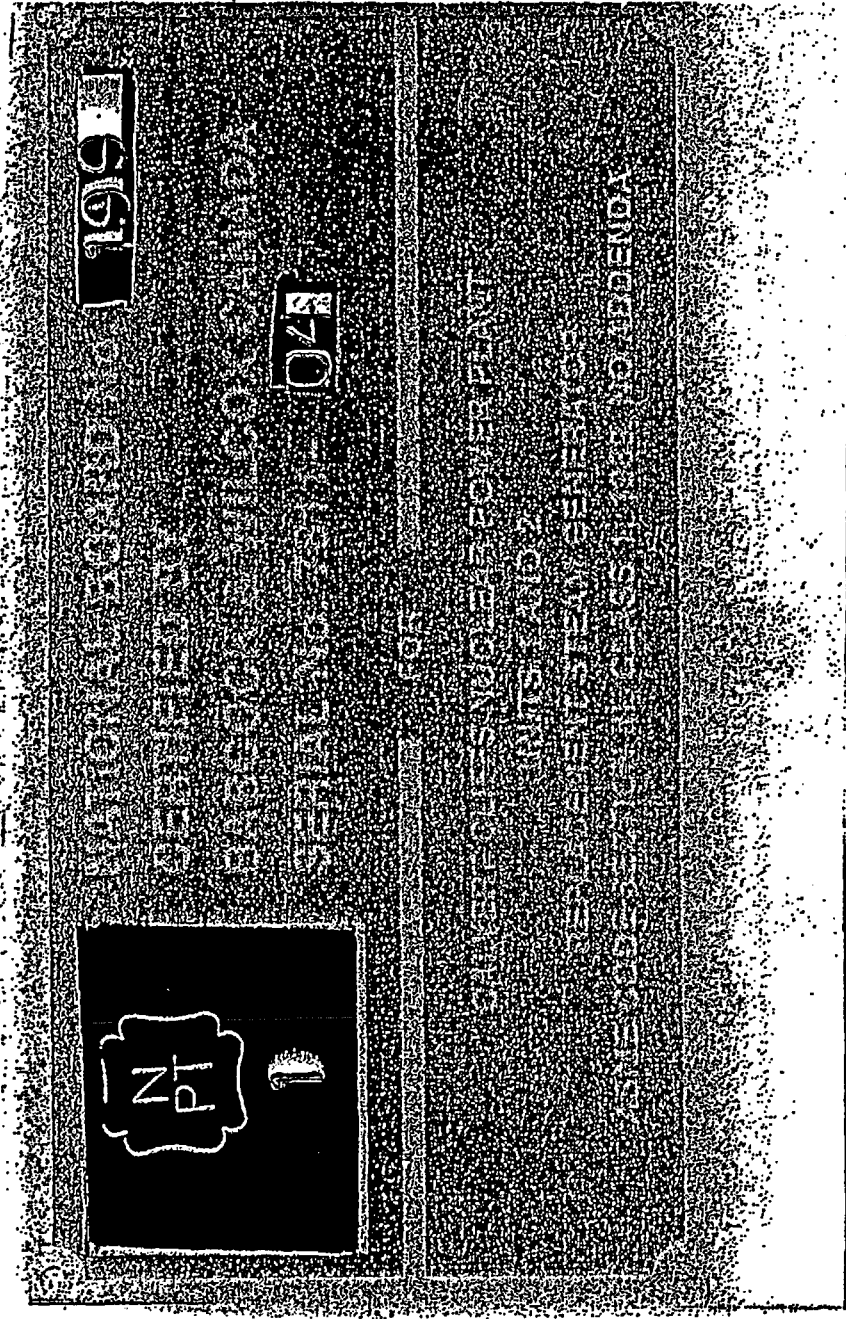
MURORAN PLANT

(NAME OF CERTIFICATE HOLDER)

(CERTIFICATE HOLDER'S SERIAL NUMBER)

02/01/06

Removed For Safe Keeping



7811N64 999MA

W/ 827257

08940400



08-08-02

WRJ 9/AUG/02

W/ ANZ

20.6.8

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/22/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SG-2-002b, MWO No. S199601526
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Piping System	Combustion Engineering	30" & 42" CC-1 Piping	N/A	Reactor Coolant Piping	1974	Repaired/Replaced	Yes

7. Description of Work:

This plan was for the Reactor Coolant Hot Leg and Cold Leg Piping work to support the replacement of #22 Steam Generator.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 2273 psi. Test Temperature: 532 Deg. F

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)

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg. Guide 1.147. A Section XI Surface Examination and Ultrasonic Examination of the affected component was performed to satisfy Section XI Pre-Service NDE Requirements. With an approved Relief Request from NRC, we were allowed to use the 1993 Addenda of the 1992 Edition of Section III. This addenda permits the use of wire type IQI's (Image Quality Indicators) as an alternative to plaque type IQI's for radiographic examinations. Plaque type IQI's are required by Section III, 1992 Edition which is referenced by Code Case N-416-1 and by the installation code which is Section III, 1989 Edition.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/22/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9-2-02 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB9226ANI, MD647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/23/2003
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 3
 (address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SG-2-002c, MWO No. S199601526
 (address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
 (name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
 (address) Section XI Class: Two

4. Identification of System: System Number Var. System Name: Main Steam, B/D, FW, Aux/Feed, & Reclr

5. (a) Applicable Construction Code and Class: ASME B31.1.0 1967 Edition, 1972 Add
 (b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping System	Bechtel	N/A	N/A	Main Steam, Feed Water, Blowdown, Wet-Layup Recirc. & Aux. Feed Water Sys.	1975	Repaired/Replaced	No
Plate	SGT-Blowdown	ES199601526-210 Ht#: A1X2066	N/A	Plate, Steel 3/8 in. X 48 in. X 96 in., ASME SA-36	2002	Replacement	No
Elbow	SGT-Aux. Feedwater	ES199601526-218 Ht#: V1493 & MUMF	N/A	Elbow, Pipe, 4 in., 90 Deg., Sch.80, Long Radius, butt weld, ASME SA-234, Gr. WPB	2002	Replacement	No
Gate Valve	SGT-Wet-Layup Recirc.	ES199601526-211 Ht#: JW6BA2	N/A	Valve, Gate, 2 in., 800 lb., ASME SA-105	2002	Replacement	No
Pipe	SGT-Wet-Layup Recirc.	ES199601526-211	N/A	Pipe, 2 in., Sch. 80, ASME SA-106, Gr. B	2002	Replacement	No
Pipe Clamp Base	SGT-Blowdown	ES199601526-210 Ht#: AEM	N/A	Clamp, Pipe Anchor Base, 2 in. for PG-41 / PG-43 per Drwg.# FSK-MP-0571SH0003 & 0005, Part# 5.	2002	Replacement	No
Tube Steel	SGT-Blowdown	ES199601526-210 Ht#: A1T1234	N/A	Tube, Steel, 4 in. X 4 in. X 3/8 in., ASTM A-500 Gr. B	2002	Replacement	No
Pipe	SGT-Blowdown	ES199601526-210	N/A	Pipe, 2 in., Sch. 80, ASTM A-335, Gr. P22	2002	Replacement	No
Elbow	SGT-Blowdown	ES199601526-210	N/A	Elbow, Pipe, 2 in., 90 Deg., 3000 lb., Socketweld, ASTM A-182 Gr. F-22	2002	Replacement	No
Coupling	SGT-Blowdown	ES199601526-210 Ht#: J21300	N/A	Coupling, 2 in., 3000 lb., Socketweld, ASTM A-182, Tp. F22	2002	Replacement	No
Angle	SGT-Blowdown	ES199601526-210	N/A	Angle, 4 in. X 4 in. X 1/4 in., ASTM A-36	2002	Replacement	No
Nut	SGT-Blowdown	ES199601526-210	N/A	Nut, Hex. Head, 1/2 in. X 13 TPI, SA-194 Gr. 2H	2002	Replacement	No
Eye Nut	SGT-Blowdown	ES199601526-210	N/A	Eye Nut, Weldless, 1/2 in., Grinnell. Fig. 290N	2002	Replacement	No

Plate, C.S.	SGT-Blowdown	ES199601526-210 Ht.#: 413276	N/A	Plate, Steel, 1/2 in. X 48 in. X 96 in., ASTM-A36	2002	Replacement	No
Angle	SGT-Blowdown	ES199601526-210	N/A	Angle, 1 in. X 1 in. X 1/4 in., ATSM A-36	2002	Replacement	No
Pipe Clamp	SGT-Blowdown	ES199601526-210	N/A	Clamp, Pipe, 2 in., for use on Grinnell Fig. 295N, with Hardware	2002	Replacement	No
Spring Can	SGT-Blowdown	ES199601526-210	N/A	Support, Variable Spring Can, Grinnell Figure # B-268N, Tp. A, Size 000	2002	Replacement	No
Fitting	SGT-Blowdown	ES199601526-210	N/A	Lateral, 2 in., 3000 lb., Socketweld, ASTM A-182 Gr. F22	2002	Replacement	No
Elbow	SGT-Blowdown	ES199601526-210	N/A	Elbow, Pipe, 2 in., 45 Deg., 3000 lb., Socketweld, ASTM A-182 Gr. F-22	2002	Replacement	No
Elbow	SGT-Blowdown	ES199601526-210 Ht.#: JD1897	N/A	Elbow, Pipe, 2 in., 90 Deg., Sch.80, Long Radius, butt weld, ASTM A-234 Gr. WP22	2002	Replacement	No
Angle	SGT-Blowdown	ES199601526-210 Ht.#: B1P5656/C18293	N/A	Angle, 3 in. X 3 in. X 1/4 in., ASTM A-36	2002	Replacement	No
Tube Steel	SGT-Blowdown	ES199601526-210	N/A	Tube Steel, 3 in. X 3 in. X 1/4 in., ASTM A-500 Gr. B	2002	Replacement	No
Plate, C.S.	SGT-Blowdown	ES199601526-210 Ht.#: 2093ANC	N/A	Plate, Steel, 1/4 in. X 48 in. X 96 in., ASTM A36	2002	Replacement	No
Radiographic Plug	SGT-Main Steam	ES199601526-208 Ht.#: J1K2439	N/A	Plug, Radiographic, 1 1/4 in. ASTM A675, Gr. 80	2002	Replacement	No
Pipe	SGT-Feedwater	ES199601526-209	N/A	Pipe, 16 in. Sch. 80, ASME SA-335 Gr. P22	2002	Replacement	No
Elbow	SGT-Feedwater	ES199601526-209	N/A	Elbow, Pipe, 16 in., 90 Deg., Sch.80, Long Radius, butt weld, ASME SA-234 Gr. WP22	2002	Replacement	No
Radiographic Plug	SGT-Feedwater	ES199601526-209 Ht.#: A62363	N/A	Plug, Radiographic, 1 1/4 in. ASTM A739, Gr. B22	2002	Replacement	No
Concentric Reducer	SGT-Wet-Layup Recirc.	ES199601526-211 Ht.#: W1L620	N/A	Reducer, Pipe, Concentric, 3 in. X 2 in., Sch. 80 ASTM A-234, Gr. WPB	2002	Replacement	No
Spring Can	SGT-Blowdown	ES199601526-210	N/A	Support, Variable Spring Can, Grinnell Figure # 268, Tp. B, Size 2	2002	Replacement	No
Spring Can	SGT-Blowdown	ES199601526-210	N/A	Support, Variable Spring Can, Grinnell Figure # 268, Tp. B, Size 3	2002	Replacement	No

7. Description of Work:

This plan was for the work to be done to the Main Steam, Blowdown, Feedwater, Aux. Feedwater and the Wet-Layup Recirc. lines that are associated with the replacement of #22 Steam Generator.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☒ Functional: ☐
Pressure: 890 psi. Test Temperature: 532 Deg. F

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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9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Code Case N-416-1 was invoked to satisfy Section XI required pressure tests. Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and Reg.Guide 1.147. A Section XI Surface Examination and Ultrasonic Examination of the affected component was performed to satisfy Section XI Pre-Service NDE Requirements. With an approved Relief Request from NRC, we were allowed to use the 1993 Addenda of the 1992 Edition of Section III. This addenda permits the use of wire type IQI's (Image Quality Indicators) as an alternative to plaque type IQI's for radiographic examinations. Plaque type IQI's are required by Section III, 1992 Edition which is referenced by Code Case N-416-1 and by the installation code which is Section III, 1989 Edition.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed:


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/23/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9-2-02 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NB8226 ANT, MD 647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/22/2003
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)

1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SG-2-002d, MWO No. S199601526
(address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One

4. Identification of System: System Number 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Edition, Summer 1971 Add; Class One

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement (Yes or No)	ASME Code Stamped (Yes or No)
Piping System	Bechtel	1" & under CC-9	N/A	Reactor Cooling Sys. Instrumentation	1970	Repaired/Replaced	No
Tubing	SGT-Reactor Coolant Flow Indication	ES199601526-212 Ht.#: V0049	N/A	Tubing, 3/4 in. X .065 Wall, ASME SA 213, Tp. 316	2002	Replacement	No
2D Tubing Clamp	SGT-Reactor Coolant Flow Indication	ES199601526-212 MWO.#: 0200100026	N/A	Clamp, Tube, 3/4 in., 2 Directional, Mark #400, Girard P/N 3/4T-SS-2D, A/SA 276 or 479, Tp. 304/316	2002	Replacement	No
Tubing Union	SGT-Reactor Coolant Flow Indication	ES199601526-212	N/A	Union, Tubing, 3/4 in. Swagelok, P/N SS-12-TSW-6, ASTM/ASME A/SA182 or A/SA479, Tp. 316	2002	Replacement	No
Pipe	SGT-Reactor Coolant Flow Indication	ES199601526-212 Ht.#: 7708H	N/A	Pipe, 1in. Sch 160, ASME SA-376, TP-316	2002	Replacement	No
Fitting	SGT-Reactor Coolant Flow Indication	ES199601526-212 Heat Code: CHPC	N/A	Fitting, 1 in. X 3/4 in. Pipe/Tubing Connector, Parker, P/N 12-1-AW	2002	Replacement	No

7. Description of Work:

This plan was for the Section XI, Class I, Reactor Coolant System Instrumentation Piping/Tubing and supports, one inch and under, work to support the replacement of #22 Steam Generator.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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

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9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____

Charles H. Ballard
Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/22/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9-2-02 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.

Robert W. Lawrence
Inspector's Signature

Commissions: NB 8226 ANI, MD 647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 05/22/2003
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 2
(address)
2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Two
(name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SG-2-002e, MWO No. S199601526
(address) (P.O. no., job no., etc.)
3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
(name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
(address) Section XI Class: One & Two
4. Identification of System: System Number 64/83 System Name: Steam Generator Replacement
5. (a) Applicable Construction Code and Class: AISC, Manual of Steel Construction, 6th Ed. 1963
(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replaced	ASME Code Stamped (Yes or No)
Comp. Support	Combustion Engineering	N/A	N/A	#22 Steam Generator Snubber and Sliding Base	1977	Repaired/Replaced	No
Stud	SGT-Steam Generator Supports	ES199601526-207 Ht.#: 14433	N/A	Stud, 2 1/4 in. X 4 1/2 TPI X 14 in., ASTM A-193, Gr. B7	2002	Replacement	No
Nut	SGT-Steam Generator Supports	ES199601526-207 Ht.#: 8991915	N/A	Nut, Heavy Hex, 2 1/4 in. X 4 1/2 TPI, ASTM A-194 Gr. 7	2002	Replacement	No
Washer	SGT-Steam Generator Supports	ES199601526-207	N/A	Washer, 2 1/4 in., Circular Hardened, ASME SA-193 Gr. B7	2002	Replacement	No
Plate	SGT-Steam Generator Supports	ES199601526-207	N/A	Plate, Shim, AISI 4140, 125 RMS Finish, Heat-Treat to RC-40	2002	Replacement	No
Capscrew	SGT-Steam Generator Supports	ES199601526-207	N/A	Capscrew, Socket Head, 1/2 in. X 13 TPI, UNC 3A, Countersunk per ASTM F-835	2002	Replacement	No

7. Description of Work:

This plan was for the work on the Sliding base and the brackets that hold #22 Steam Generator in place.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
Pressure: N/A psi. Test Temperature: N/A Deg. F

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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9. Remarks:

A Section XI VT-3 Visual Examination of the affected component support was performed prior to the system being returned to service.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 05/22/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 9-2-03 to 4-20-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NB8226 ANI, MD647
National Board, State, and Endorsements

Date: May 27, 2003

FORM NIS-2 OWNER'S REPORT FOR REPAIR / REPLACEMENT ACTIVITY

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. Date: 06/19/2003
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 Sheet 1 of 1
 (address)

2. Plant: Calvert Cliffs Nuclear Power Plant Unit: Common
 (name)
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SNUB-0-003, MWO No. SNUB POOL
 (address) (P.O. no., job no., etc.)

3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: N/A
 (name) Authorization No.: N/A
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Exp Date: N/A
 (address) Section XI Class: 1, 2, & 3

4. Identification of System: System Number 065B System Name: Seismic Snubbers

5. (a) Applicable Construction Code and Class: ASME B31.7 1969 Ed, Sum. 1971 Add. Class One or Combustion Eng. Spec 8067-487-503

(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Snubber Pool	Grinnell Corporation	Snubber Pool	N/A	Hydraulic Shock and Sway Suppressor	1975	Repaired/Replaced	No
Snubber	Grinnell Corporation	59013-GX SN: 32355	N/A	Hydraulic Shock and Sway Suppressor, 2 1/2 in. Bore X 5 in. Stroke, Grinnell Fig. 200	1991	Replacement	No
Snubber	Grinnell Corporation	59013-GX SN: 32320	N/A	Hydraulic Shock and Sway Suppressor, 1 1/2 in. Bore X 5 in. Stroke, Grinnell Fig. 200 Opt. 1	1991	Replacement	No
Snubber	Grinnell Corporation	59013-GX SN: 32317	N/A	Hydraulic Shock and Sway Suppressor, 1 1/2 in. Bore X 5 in. Stroke, Grinnell Fig. 200 Opt. 1	1991	Replacement	No
Snubber	Grinnell Corporation	10765-GX SN: 33329	N/A	Hydraulic Shock and Sway Suppressor, 3 1/4 in. Bore X 5 in. Stroke, Grinnell Fig. 200N Opt. 1	1995	Replacement	No
Snubber	Grinnell Corporation	10765-GX SN: 33333	N/A	Hydraulic Shock and Sway Suppressor, 5 in. Bore X 5 in. Stroke, Grinnell Fig. 200N Opt. 1	1995	Replacement	No
Snubber	Anvil International Inc. (Grinnell Snubbers)	402185 SN: 35008	N/A	Hydraulic Shock and Sway Suppressor, 2 1/2 in. Bore X 10 in. Stroke, Grinnell Fig. 200N Opt. 1	2001	Replacement	No

7. Description of Work:

This plan was for the continued control of the Snubber Pool and documentation of new components/parts added to the Snubber Pool per Section XI 1998, IWA-4132, Items Rotated From Stock. This plan documents all Snubber work from the end of Unit #1, 2002 outage through to the end of Unit #2, 2003 outage.

8. Tests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pressure: Inservice: ☐ Leakage: ☐ Functional: ☐
 Pressure: N/A psi. Test Temperature: N/A Deg. F

FORM NIS-2 (Back)

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

9. Remarks:

A Section XI VT-3 Visual Examination of the affected component support was performed prior to the system being returned to service.

Applicable Manufacturer's Data Reports to be Attached

Certificate of Compliance

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

Type Code Symbol Stamp: N/A

Certificate of Authorization No.: N/A Expiration Date: N/A

Signed: _____


Owner or Owner's Designee, Title

Charles H. Ballard
Engineering Technician

Date: 06/19/2003

Certificate of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the

components described in this Owner's Report during the period 6-21-02 to 4-14-03, and state 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 warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions: NB8226 ANI, MD647
National Board, State, and Endorsements

Date: June 20 2003



Calvert Cliffs Nuclear Power Plant Memorandum

Maintenance & Component Engineering Unit
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White Paper

Given:

ASME-Sect. XI, 1998 Edition, Sub-Section IWA-4132 Stated

IWA-4132 Items Rotated From Stock

For snubbers and pressure relief valves rotated from stock and installed on components (including piping systems), the following requirements may be used in lieu of those of IWA-4000, provided the rotation is only for testing the removed items:

- (a) Items being removed and installed shall be of the same design and construction.*
- (b) Items being removed shall have no evidence of failure at the time of removal.*
- (c) Items being rotated shall be removed and installed only by mechanical means.*
- (d) Items being installed shall previously have been in service.*
- (e) Preservice inspections and pressure tests shall be performed as required by IWA-4500.*
- (f) The Owner shall track the items to ensure traceability of inservice inspection and testing records.*
- (g) Use of a NIS-2 form is not required.*
- (h) Testing of removed snubbers and pressure relief valves, including required sample expansions, shall be performed in accordance with Sub-sections IWF and IWW.*

Note: Snubber Item means Pin to Pin

Fact:

All of the Hydraulic Snubbers at CCNPP are bought from Grinnell Corporation, under Bechtel Spec. 6750-M-254 & 255 (small bore) are equivalents and BGE Spec. SP-446 for Steam Generator Snubbers.

All of the Hydraulic Snubbers at CCNPP have met the Construction Code B31.1 1967 Edition 1972 Addenda, B31.7 1969 Edition 1971 Addenda and CE-8067-487-503.

Sub L

Requirements:


All of the procedures and maintenance orders are safety related.

All of the Snubbers at CCNPP are interchangeable, providing that they are the same size, bore & stroke, load capacity.


Conclusion:


All of the snubbers in stock were previously installed, and all installed snubbers at CCNPP are qualified and meet the ASME Sect XI, 1998 Edition, Sub-Section IWA-4132 criteria. Therefore, an R&R is not required.

However, for those items not previously installed (new item from the warehouse), or snubber part(s) being repaired/replaced on the active installing snubbers in the field: An R&R is required.

 8/25/2000

D. V. Hoang
System / Component Sr. Engineer

Reviewed By:  8/25/00
DES/PDSU Sr. Engineer

Concurrence:  8-29-00
ANII