George Vanderheyden Vice President Calvert Cliffs Nuclear Power Plant Constellation Generation Group, LLC 1650 Calvert Cliffs Parkway Lusby, Maryland 20657 410 495-4455 410 495-3500 Fax



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 traily yours,

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

Mr. Craig Lowry cc:

(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

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

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NIS-1

OWNER'S REPORT FOR INSERVICE INSPECTIONS

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

C 101 - 12

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

	1815-1	-
9. Inspection Period Identification:	2002	to 2006
10. Inspection Interval Identification:	1999	to 2009
11. Applicable Edition of Section XI	1998	Addenda None

NITC 1

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.

Certifica	te of Authorization	No. (if applica	ible) N/A		Expiration Date			
Date 07/14/2003	Signed Constelation		n Energy Group		By Keith M. Hoffn	Keith M. Hoffman	Xionny	
			Owner			_		
			CERT	IFICATE OF IN	SERVICE INSI	PECTI	ON	
I, the un	dersigned, holding a v	alid commission	issued by the Nat	ional Board of Boile	r and Pressure Vesse	l Inspect	tores and the State or provi	nces of
Marylar	d	and employ	yed by FACTC	ORY MUTUAL INS	URANCE COMPA	NY		of
JOHNS	TON, RI			have inspected	the components des	cribed in	this Owner's Report durin	ng the peroid
5	-19-01	to 4.	22-03	, and state tha	t to the best of my kr	nowledge	and belief, the Owner ha	s performed
examin: Code, Se	ations and tests and takestion XI.	ken corrective m	easures described	in this Owner's Repo	ort in accordance wit	h the ins	pection plan and as require	ed by the ASME
By sign corrective	ing this certificate ne e measures described	ither the Inspecto in this Owner's F	r nor his employed Report. Furthermo	r makes and any war re, neither the Inspe	ranty, expressed or in ector nor his employed	mplied, o r shall bo	concerning the examination e liable in any manner for a	ns, tests, and any personal injury

Robert W Lawrence Inspector's Signature

1-14-03

Commissions

NBBZZG ANE, MDG47

Page 2 of 2

National Board, State, Province, and Endorsements

Page 1 of 14

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 Ce	ertificate of Authorization(If Req.	.) <u>N/A</u>			
5. Commerc	tial Service Date:	<u>04/01/1977</u>			
6. National I	Board Number for Unit:	<u>20912</u>			
EXAM CATEO	BORY / ITEM NUMBER:	-/-			
Reactor Coolant	Pressurizer				
<u>Summary/ID No.</u> 103520	Component ID PZR LVL Tap Base Metal	<u>Component Description</u> Pressurizer Level Tap Base Metal @ 7 1/2 Degrees	<u>Comments</u> 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 CATEO	ORY / ITEM NUMBER:	B-B / B2.11			
PRESSURIZER					
Summary/ID No. 103070	<u>Component ID</u> 3-401	Component Description LOWER SHELL TO LOWER HEAD	<u>Comments</u> No recordable indications noted.		
Exam Results:	2003BU031 Accept				
	BORY / ITEM NUMBER:	B-B / B2.12			
PRESSURIZER					
<u>Summary/ID No.</u> 103040	Component ID 2-401D	Component Description LOWER SHELL AT 0 DEG.	<u>Comments</u> No recordable indicatins noted.		
Exam Results:	2003BU039 Accept				
EXAM CATEO	SORY / ITEM NUMBER:	B-D / B3.110			
PRESSURIZER					
<u>Summary/ID No.</u> 103100	Component ID 16-405A	Component Description SAFETY AND RELIEF NOZZLE	<u>Comments</u> Examination coverage was limited to 41% this examination will be considered for relief request.		
Exam Results:	2003BU041 Accept				
EXAM CATEO	BORY / ITEM NUMBER:	B-D / B3.120			
PRESSURIZER					
Summary/ID No. 103140	<u>Component ID</u> 16-405A-IRS	Component Description SAFETY AND RELIEF NOZZLE	<u>Comments</u> No recordable indications noted.		
Exam Results:	2003BU040 Accept				

1. Owner:		Constellation Energy Group, P.O. Box 147	Constellation Energy Group, P.O. Box 1475, Baltimore, MD 21203			
2. Plant:		Calvert Cliffs Nuclear Power Plant, 1650 C	Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD 20657			
3. Plant Uni	t	2	2			
4. Owner Co	ertificate of Authorization(If Req.) <u>N/A</u>				
5. Commerc	cial Service Date:	04/01/1977	<u>04/01/1977</u>			
6. National	Board Number for Unit:	<u>20912</u>				
EXAM CATEC	SORY / ITEM NUMBER:	B-G-1 / B6.10				
REACTOR PRES	SURE VESSEL					
<u>Summary/ID No.</u> 102090	<u>Component ID</u> NUTS 1-54	Component Description Examine #1 Thru #18	<u>Comments</u> 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 CATEC	GORY / ITEM NUMBER:	B-G-1 / B6.30				
REACTOR PRES	SURE VESSEL					
<u>Summary/ID No.</u> 102100	Component ID STUDS 1-54	Component Description Examine #1 Thru #18	<u>Comments</u> 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:						
	2003BM084Accept2003BM092Accept2003BU030Accept					
EXAM CATEC	GORY / ITEM NUMBER:	B-G-1 / B6.50				
REACTOR PRES	SURE VESSEL					
Summary/ID No. 102110	Component ID WASHERS 1-54	Component Description Exanine #1 Thru #18	<u>Comments</u> The corrosion found on the RV bolting materials is due to previous cleaning techniques which has removed the parkerization.			
Exam Results:	2003BV076 Accept					
EXAM CATEO	GORY / ITEM NUMBER:	B-G-2 / B7.20				
REACTOR COOL	ANT					
<u>Summary/ID No.</u> 103230	Component ID PZR LWR LVL TAP	Component Description PZR LOWER LEVEL TAP MNSA S/N B007- 02	<u>Comments</u> No recordable indications noted.			
Exam Results:			· · · · · · · · · · · · · · · · · · ·			
103240	2003BV223 Accept PZR LWR LVL TAP	PZR LOWER LEVEL TAP MNSA S/N B007- 03	No recordable indications noted.			
Exam Results:						
400050	2003BV227 Accept					
103250	PZR MID LVL TAP	PZR MID LEVEL TAP MNSA S/N B006-03	No recordable indications nôted.			
	2003BV232 Accept					

1. Owner:	1. Owner:		Constellation Energy Group, P.O. Box 1475, Baltimore, MD 21203		
2. Plant:			Calvert Cliffs Nuclear Power Plant, 165	0 Calvert Cliffs Parkway, Lusby, MD 20657	
3. Plant Unit:			2		
4. Owner Co	ertificate of Aut	norization(If Req.)	<u>N/A</u>		
5. Commerc	cial Service Dat	e:	<u>04/01/1977</u>		
6. National	Board Number	for Unit:	20912		
EXAM CATE	GORY / ITEN	I NUMBER:	B-G-2 / B7.60		
REACTOR COOL	ANT PUMPS				
Summary/ID No.	<u>Component</u>	ID	Component Description	<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		
Exam Results:					
	2003BV058	Accept			
	2003BV058	Accept			

1. Owner:			Constellation Energy Group, P.O. Box 147	5. Baltimore, MD 21203
2. Plant:			Calvert Cliffs Nuclear Power Plant, 1650 C	Calvert Cliffs Parkway, Lusby, MD 20657
3. Plant Uni	t:		2	
4. Owner C	ertificate of Aut	norization(If Req.) <u>N/A</u>	
5. Commer	cial Service Dat	e:	<u>04/01/1977</u>	
6. National	Board Number	for Unit:	<u>20912</u>	
	SORY / ITEM	NUMBER:	B-G-2 / B7.70	
CHEMICAL AND	VOLUME CON	ITROL LETDOW	N	
Summary/ID No.	<u>Component</u>	<u>1D</u>	Component Description	<u>Comments</u>
164770	2-CV-515		VALVE BODY BOLTING	
Exam Results:				
	2003BV060	Accept		
	2003BV060	Accept		
164780	2-CV-516 0	N 2-LD-2004	VALVE BOLTING	
Exam Results:				
	2003BV061	Accept		
	2003BV061	Accept		
PRESSURIZER	SPRAY			
Summary/ID No.	Component	ID	Component Description	<u>Comments</u>
164/40	2-CV-100E		VALVE BODY BOLTING	No recordable indications noted.
Exam Results:	200201/055	Accept		
	200381/055	Accept		
164750	2003DV033	Лшері	VALVE BODY BOLTING	
Evam Posulte:	2-01-1001			
LAIN Nesuls.	2003BV056	Accept		
	2003BV056	Accept		
SHUTDOWN CO	OLING			
<u>Summary/ID No.</u> 164680	<u>Component</u> 2-MOV-651	ID ON 12-SC-2004	Component Description VALVE BOLTING	<u>Comments</u>
Exam Results:				
	2003BV024	Accept		
	2003BV260	Accept		
	2003BV024	Accept		
	2003BV260	Accept		
164690	2-MOV-652	ON 12-SC-2004	VALVE BOLTING	No recordable indications noted.
Exam Results:				
	2003BV059	Accept		
	2003BV059	Accept		

Page 5 of 14

1. Owner:			Constellation Energy Group, P.O. Box 147	75. Baltimore, MD 21203		
2. Plant:			Calvert Cliffs Nuclear Power Plant, 1650 C	Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD 20657		
3. Plant Uni	t:		2			
4. Owner Co	ertificate of Auth	orization(If Req.)	<u>N/A</u>			
5. Commerc	cial Service Date	e:	<u>04/01/1977</u>			
6. National I	Board Number f	ior Unit:	20912			
EXAM CATEO	GORY / ITEN	NUMBER:	B-J / B9.11			
PRESSURIZER S	SAFETY AND R	ELIEF SYSTEM				
<u>Summary/ID No.</u> 141010	Component 4-SR-2005-2	ID 2	Component Description SAFE END TO ELBOW	<u>Comments</u> The volumetric examination was limited to 50% due to PDI techniques and will be considered for relief request.		
Exam Results:						
	2003BP059	Accept				
400000	2003BU038	Accept		••••••••••••••••••••••••••••••••••••••		
139000	4-SK-2001-'	1	TEE TO PIPE	50% due to PDI techniques and will be considered for relief request.		
Exam Results:						
	2003BU033 2003BP045	Accept Accept				
EXAM CATEO	GORY / ITEN	INUMBER:	B-J / B9.21			
PRESSURIZER S	SAFETY AND R	ELIEF SYSTEM				
Summary/ID No. Component ID O 143030 2.5-SR-2003-4 6		<u>ID</u> 3-4	Component Description ELBOW TO PIPE	<u>Comments</u> Scanned additional area for thermal fatigue concerns iaw RI-ISI program.		
Exam Results:	2003BP046 2003BU032	Accept Accept				
FXAM CATEO	SORY / ITEN		B-K-1 / B10 10			
SAFETY INJECT	ION SYSTEM					
Summary/ID No.	Component	<u>ID</u>	Component Description	Comments		
120010	6-SI-2001-H	-40	INTEGRALLY WELDED ATTACHMENT	No recordable indications noted.		
Exam Results:	2003BP122	Accept				
EXAM CATEO	ORY / ITEM	I NUMBER:	B-P / B15.10			
PRESSURE RET		DARY				
<u>Summary/ID No.</u> 165000	<u>Component</u> RV-SLT-1	ID	Component Description SYSTEM LEAKAGE TEST	<u>Comments</u> No indications of leakage were noted.		
Exam Results:	2003BV297	Accept				
EXAM CATEO	SORY / ITEN	INUMBER:	B-P / B15.20			
PRESSURE RET	AINING BOUNI	DARY				
<u>Summary/ID No.</u> 165020	Component PRZR-SLT-	<u>ID</u> 1	Component Description SYSTEM LEAKAGE TEST	<u>Comments</u> No indications of leakage were noted.		
Exam Results:	2003BV298	Accept				

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

1. Owner:		Constellation Energy Group, P.O. Box 147	5, Baltimore, MD 21203
2. Plant:		Calvert Cliffs Nuclear Power Plant, 1650 C	Calvert Cliffs Parkway, Lusby, MD 20657
3. Plant Unit:		2	
4. Owner Cei	tificate of Authorization(If Req	.) <u>N/A</u>	
5. Commerci	al Service Date:	<u>04/01/1977</u>	
6. National B	oard Number for Unit:	<u>20912</u>	
EXAM CATEG	ORY / ITEM NUMBER:	В-Р / В15.30	
PRESSURE RETA	INING BOUNDARY		
<u>Summary/ID No.</u> 165040	Component ID SG-SLT-1	Component Description SYSTEM LEAKAGE TEST	<u>Comments</u> No Indications of leake were noted.
Exam Results:	2003BV299 Accept		
EXAM CATEG	ORY / ITEM NUMBER:	B-P / B15.40	
PRESSURE RETA	INING BOUNDARY		
Summary/ID No.Component IDO165060HX-SLT-1S		Component Description SYSTEM LEAKAGE TEST	<u>Comments</u> No indications of leakage were noted.
Exam Results:	2003BV300 Accept		
EXAM CATEG	ORY / ITEM NUMBER:	B-P / B15.50	
PRESSURE RETA	INING BOUNDARY		
<u>Summary/ID No.</u> 165080	<u>Component ID</u> PP-SLT-1	Component Description SYSTEM LEAKAGE TEST	Comments No indications of leakage were noted.
Exam Results:	2003BV301 Accept		
EXAM CATEG	ORY / ITEM NUMBER:	B-P / B15.60	
PRESSURE RETA	INING BOUNDARY		
<u>Summary/ID No.</u> 165100	Component ID PMP-SLT-1	Component Description SYSTEM LEAKAGE TEST	<u>Comments</u> No Indications of leakage were noted.
Exam Results:	2003BV302 Accept		
EXAM CATEG	ORY / ITEM NUMBER:	B-P / B15.70	
PRESSURE RETA	INING BOUNDARY		
<u>Summary/ID No.</u> 165120	<u>Component ID</u> VLV-SLT-1	Component Description SYSTEM LEAKAGE TEST	<u>Comments</u> No indications of leakage were noted.
Exam Results:	2003BV303 Accept		
EXAM CATEG	ORY / ITEM NUMBER:	C-A / C1.10	
SHUTDOWN COO	LING HEAT EXCHANGERS		
<u>Summary/ID No.</u> 201650	Component ID SCHE-22-1	Component Description CHANNEL FLANGE TO CHANNEL	<u>Comments</u> This exam was a single side exam due to

Page 6 of 14

Exam Results:

2003BU006 Accept

<u>Comments</u> 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.

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, 1	Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD 20657			
3. Plant Unit:			2	2			
4. Owner C	ertificate of Aut	horization(If Req.) <u>N/A</u>				
5. Commer	cial Service Dat	e:	04/01/1977				
6. National	Board Number	for Unit:	<u>20912</u>				
EXAM CATE	BORY / ITEN	INUMBER:	C-C / C3.20				
CONTAINMENT	SPRAY SYSTE	M					
Summary/ID No. 268300	Component 8-CS-2006-	<u>ID</u> H-10, R-7	Component Description INTEGRALLY WELDED ATTACHM	<u>Comments</u> No recordable indications noted.			
Exam Results:							
	2003BP032	Accept					
MAIN STEAM SY	STEM						
<u>Summary/ID No.</u> 281900	<u>Component</u> 36-MS-2002	<u>ID</u> 2-H-3	Component Description INTEGRALLY WELDED ATTACHM	<u>Comments</u> 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.			
Exam Results:							
	2003BU044	Accept					
	2003BM097	Reject					
	Evaluati	on Disposition: Ac	cceptable				
SAFETY INJECT	ION SYSTEM						
Summary/ID No. 204750	Component 24-SI-2002-	<u>ID</u> H-20	Component Description INTEGRALLY WELDED ATTACHM	<u>Comments</u> No recordable indications noted.			
Exam Results:							
	2003BP031	Accept					
216850	10-SI-2003-	R-16	INTEGRALLY WELDED ATTACHM	No recordable indications noted.			
Exam Results:	0000000007						
223400	6-SI-2001B	Ассерт -H-18	INTEGRALLY WELDED ATTACHM	Examination of the surface area was limited to those portions that were accessible without removal of support members.			
Exam Results:	2003BP029	Accept					
000050	2003BP029	Accept		No secondate indications a stad			
228050	0-51-2006A	-H-14, K-2/	INTEGRALLY WELDED ATTACHM	No recordable indications noted.			
Exam Results:	200388100	Accept					
231000	6-SI-2201-H	Ашері 1-3	INTEGRALLY WELDED ATTACHM	Examination of the surface area was limited to those portions that were accessible without removal of support members.			
Exam Results:							
	2003BP008	Accept					
	2003BP008	Accept					
232600	6-SI-2202-H	1-2	INTEGRALLY WELDED ATTACHM	No recordable indications noted.			
Exam Results:							
-	2003BP007	Accept					
234250	6-SI-2203-R	8-11	INTEGRALLY WELDED ATTACHM	Areas of limited coverage were due to interference from the support clamp, Section XI does not require removal of the clamp.			

Exam Results:

1. Owner:			Constellation Energy Group, P.O. Box 147	75, Baltimore, MD 21203
2. Plant:			Calvert Cliffs Nuclear Power Plant, 1650 C	Calvert Cliffs Parkway, Lusby, MD 20657
3. Plant Uni	t:		<u>2</u>	
4. Owner Co	ertificate of Auth	horization(If Req.)	<u>N/A</u>	
5. Commerc	cial Service Dat	e:	<u>04/01/1977</u>	
6. National	Board Number i	for Unit:	<u>20912</u>	
	2003BP098	Accept		
235800	6-SI-2204-R	k-9	INTEGRALLY WELDED ATTACHM	The exam coverage was limited by the clamp. Section XI does not require removal of the clamp to attain coverage.
Exam Results:				
	2003BP099	Accept		
239625	4-SI-2005A-	-H-13	INTEGRALLY WELDED ATTACHM	UT WAS PERFORMED TO SUPPLEMENT PT TO ATTEMPT TO ACHIEVE GREATER COVERAGE.
Exam Results:				
	2003BP005	Accept		
	2003BP005	Accept		

1. Owner:			Constellation Energy Group, P.O. Box 147	5, Baltimore, MD 21203
2. Plant:			Calvert Cliffs Nuclear Power Plant, 1650 C	alvert Cliffs Parkway, Lusby, MD 20657
3. Plant Uni	t		2	
4. Owner Ce	ertificate of Aut	horization(If Reg.)	<u>N/A</u>	
5. Commerc	ial Service Da	te:	04/01/1977	
6. National I	Board Number	for Unit:	<u>20912</u>	
	ORY / ITE	M NUMBER:	C-F-1 /	
CONTAINMENT	SPRAY SYSTE	M		
Summary/ID No.	Component	<u>t ID</u>	Component Description	<u>Comments</u>
261700	10-CS-201	8-8	ELBOW TO PIPE	No recordable indications noted.
Exam Results:				
	2003BP015	Accept		
	2003BU016	Accept		
261650	10-CS-2018	8-7	PIPE TO ELBOW	No recordable indications noted.
Exam Results:				
	2003BP014	Accept		
	2003BU015	Accept		
264000	8-CS-2004-	-21	PIPE TO ELBOW	No recordable indications noted.
Exam Results:				
	2003BP016	Accept		
	2003BU019	Accept		
260600	10-CS-200	2-1	REDUCER TO PIPE	No recordable indications noted.
Exam Results:				
	2003BP028	Accept		
	2003BU017	Accept		
260700	10-CS-200	2-3	TEE TO PIPE	No recordable indications noted.
Exam Results:		A I		
	2003BU018	Accept		
	20038P013	Accept		
SAFETY INJECT	ION SYSTEM			
Summary/ID No. 212800	Component 12-SI-2004	<u>t ID</u> A-22	Component Description ELBOW TO PIPE	Comments No recordable indications noted.
Exam Results:				
	2003BP009	Accept		
	2003BU010	Accept		
215250	10-SI-2002	-6	ELBOW TO PIPE	No recordable indications noted.
Exam Results:				
	2003BU020	Accept		
	2003BP017	Accept		
211950	12-SI-2004	A-7	PIPE TO ELBOW	No recordable indications noted.
Exam Results:				
	2003BU014	Accept		
	2003BP012	Accept		
216550	10-SI-2003	-19	PIPE TO ELBOW	No recordable indications noted.
Exam Results:				
	2003BU005	Accept		
	2003BP003	Accept		
211600	12-SI-2004	A-1	REDUCER TO ELBOW	No recordable indications noted.
Exam Results:				

Page 10 of 14

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

1. Owner:			Constellation Energy Group, P.O. Box 147	<u> 5. Baltimore, MD 21203</u>
2. Plant:			Calvert Cliffs Nuclear Power Plant, 1650 C	alvert Cliffs Parkway, Lusby, MD 20657
3. Plant Uni	it:		2	
4. Owner C	ertificate of Auti	horization(If Req.)	<u>N/A</u>	
5. Commer	cial Service Dat	e:	<u>04/01/1977</u>	
6. National	Board Number	for Unit:	<u>20912</u>	
	2003BP011 2003BU013	Accept Accept		
SHUTDOWN CO		M		
Summary/ID No. 277300	Component 12-SC-2015	<u>ID</u> 5-19	Component Description PIPE TO TEE	<u>Comments</u> No recordable indications noted.
Exam Results:	2003BU012 2003BP010	Accept Accept		
EXAM CATE	GORY / ITEM	I NUMBER:	C-F-1 / C5.11	
SAFETY INJECT	TION SYSTEM			
Summary/ID No. 204350	Component 24-SI-2002-	<u>. ID</u> 5	Component Description ELBOW TO PIPE	<u>Comments</u> Root geometry noted intermittently 360° with 70° scan.
Exam Results:				
	2003BU007 2003BP006	Accept Accept		
EXAM CATE	GORY / ITEN	I NUMBER:	C-F-1 / C5.21	
SAFETY INJECT	TION SYSTEM			
Summary/ID No. 237900	Component 4-SI-2005-3	<u>ID</u>	Component Description PIPE TO ELBOW	<u>Comments</u> Ultrasonic coverage limited to 96%. Root geometry indications noted intermittently 360°.
Exam Results:				
	2003BU003	Accept		
028400	2003BP001	Accept		No recordable indications poind
230400 Exam Docultor	4-31-2003-1	1		no recordadie indications noted.
Exam Results:	2003BP002	Accept		
	2003BU004	Accept		

.

1. Owner:			Constellation Energy Group, P.O. Box 147	5. Baltimore, MD 21203
2. Plant:			Calvert Cliffs Nuclear Power Plant, 1650 C	alvert Cliffs Parkway, Lusby, MD 20657
3. Plant Uni	t:		<u>2</u>	
4. Owner Ce	ertificate of Auth	orization(If Req.)	N/A	
5. Commerc	al Service Date	9:	<u>04/01/1977</u>	
6. National I	Board Number f	or Unit:	<u>20912</u>	
EXAM CATEO	BORY / ITEN	NUMBER:	F-A / F1.10	
DRAIN LINES				
Summary/ID No. 602520	Component 2-DR-2004H	<u>ID</u> I-1,R-1	Component Description COMPONENT SUPPORT	Comments No recordable indications noted.
Exam Results:	2003BV228	Accept		
PRESSURIZER S	SAFETY AND R	ELIEF SYSTEM		
<u>Summary/ID No.</u> 601920	Component 4-SR-2001-F	<u>ID</u> २-40	Component Description COMPONENT SUPPORT	<u>Comments</u> Light surface rust on Clamp Bolts, no degradation.
Exam Results:				
	2003BV081	Accept		
PRESSURIZER S	SURGE LINE			
Summary/ID No. 600400	<u>Component</u> 12-PSL - H-	<u>ID</u> 1	Component Description COMPONENT SUPPORT	Comments No recordable indications noted.
Exam Results:	2003BV073	Accept		
SAFETY INJECT	ION SYSTEM			
Summary/ID No.	Component	ID	Component Description	Comments
601490	6-SI-2001-H	-40	COMPONENT SUPPORT	
Exam Results:				
	2003BV217	Accept		
	2003BV217	Accept		

1. Owner:		Constellation Energy Group, P.O. Box 147	75, Baltimore, MD 21203
2. Plant:		Calvert Cliffs Nuclear Power Plant, 1650 C	Calvert Cliffs Parkway, Lusby, MD 20657
3. Plant Uni	it:	2	
4. Owner C	ertificate of Authorization(If Req.) <u>N/A</u>	
5. Commen	cial Service Date:	<u>04/01/1977</u>	
6. National	Board Number for Unit:	<u>20912</u>	
	GORY / ITEM NUMBER:	F-A / F1.20	
CONTAINMENT	SPRAY SYSTEM		
<u>Summary/ID No.</u> 718600	Component ID 8-CS-2004-R-1A	Component Description COMPONENT SUPPORT	<u>Comments</u> No recordable indications noted.
Exam Results:			
	2003BV047 Accept		
720100	8-CS-2006-H-10, R-7	COMPONENT SUPPORT	No recordable indications noted.
Exam Results:	2003BV003 Accept		
MAIN STEAM SI	/STEM		
<u>Summary/ID No.</u> 724750	Component ID 36-MS-2001-R-2	Component Description COMPONENT SUPPORT	<u>Comments</u> 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.
Exam Results:			
	2003BV098 Accept		
726150	34-MS-2005-R-7	COMPONENT SUPPORT	No recordable indications noted.
Exam Results:			
	2003BV201 Accept		
SAFETY INJECT	ION SYSTEM		
<u>Summary/ID No.</u> 701250	<u>Component ID</u> 24-SI-2002-H-20	Component Description COMPONENT SUPPORT	<u>Comments</u> 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.
Exam Results:	000001/040		
705000	2003BV049 Accept		No recordable indications noted
Evam Reculte:	10-31-2002-12	COMPONENT SUFFORT	No recordable indications noted.
Examinesons.	2003BV043 Accept		
705400	10-SI-2003-H-16	COMPONENT SUPPORT	COMPONENT WAS COATED. ISOLATED AREAS OF CHIPPED COATING WAS OBSERVED
Exam Results:			
	2003BV001 Accept		
705600	10-SI-2003-R-16	COMPONENT SUPPORT	No recordable indications noted.
Exam Results:			
707450	2003BV048 Accept	COMPONIENT SUPPOST	Ato an anadable to directions a start
	0-51-2021-KH-3, K-3	COMPONENT SUPPORT	NO RECORDADIE INDICATIONS NOTED.
Exam Results:	2003BV006 Accept		

Page 13 of 14

1. Owner:			Const	tellation Energy Group	<u>. P.O. Box 1475</u>	5. Baltimore, MD 21203
2. Plant:			Calve	rt Cliffs Nuclear Powe	er Plant, 1650 Ca	alvert Cliffs Parkway, Lusby, MD 20657
3. Plant Uni	it:		2			
4. Owner C	ertificate of Auth	orization(If Req.)	N/A			
5. Commer	cial Service Date	3:	04/01	/1977		
6. National	Board Number f	or Unit:	20912	2		
707200	8-SI-2021-H	-5	COMPON	- NENT SUPPORT		No recordable indications noted.
Exam Results:						
	2003BV008	Accept				
707450	6-SI-2001B-	H-17	COMPON	NENT SUPPORT		Minor surface corrosion was noted on the upper
						threaded portions of the support rods.
Exam Results:	200201/052	Assest				
707500	200307052		COMPON			No moordable indications noted
From Bosulto:	0-31-200 18-	n-10	CONFOR	IN SUFFUR		
Exam Results:	2003BV046	Accept				
707550	6-SI-2001B-	R-13X	COMPON	NENT SUPPORT		MO 2200301643 corrected the construction deficiencies
			•••••••			noted on IR4-005-525.
Exam Results:						
	2003BV044	Reject				
	2003BV249	Accept				
707600	6-SI-2001B-	R-13Z	COMPON	NENT SUPPORT		MO 2200301643 corrected construction deficiencies
Evan Results						
Exam results.	2003BV050	Reject				
	2003BV250	Accept				
708000	6-SI-2005-H	-3, R-2	COMPON	NENT SUPPORT		The conditon noted on IR4-009-373 was evaluated as
						acceptable as-is by ESP ES200300166.
Exam Results:						
	2003BV007	Accept				
708700	6-SI-2006A-	H-14, R-27	COMPOR	NENT SUPPORT		No recordable indications noted.
Exam Results:	200201/162	Accent				
700350	6-SI-2201-P	-3	COMPON			No recordable indications noted
Evam Results:	0-01-2201-11	-0	COMPOR			
LAam Results.	2003BV016	Accept				
709400	6-SI-2201-H	-3	COMPON	NENT SUPPORT		No recordable indications noted.
Exam Results:						
<u> </u>	2003BV018	Accept				
710000	6-SI-2202-H	-2	COMPON	NENT SUPPORT		No recordable indications noted.
Exam Results:						
	2003BV019	Accept				
710700	6-SI-2203-R	-11	COMPON	NENT SUPPORT		Minor leakage noted at remote reservoir (IR4-017-778)
						examiner.
Exam Results:						
	2003BV160	Accept				
711300	6-SI-2204-R	-9	COMPON	NENT SUPPORT		No recordable indications noted.
Exam Results:						
	2003BV161	Accept				
711920	4-SI-2005A-	H-13	COMPON	NENT SUPPORT		
Exam Results:						
	2003BV004	Accept				

1. Owner:		Constellation Energy Group, P.O. Boy	< 1475, Baltimore, MD 21203
2. Plant:		Caivert Cliffs Nuclear Power Plant, 16	50 Calvert Cliffs Parkway, Lusby, MD 20657
3. Plant Uni	t	2	
4. Owner Ce	ertificate of Authorization(If Req.)	<u>N/A</u>	
5. Commerce	cial Service Date:	<u>04/01/1977</u>	
6. National I	Board Number for Unit:	<u>20912</u>	
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	Bease UEL And	XI Class
2199801252	99-2-002	2HVSI-1096	Two
2199804167	99-2-001	2PUMPRC22A(s)	One
2200000101	2002-2-063a	2MOV403	One
2200000101	2002-2-063b	2#CC10-2001	One
2200002303	2002-2-044a	2HVSI-704	One
2200002303	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
	2002-2-065a	2MOV405	One
2200200044	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
2200201000	2002-2-069b	2#CC5-2004	One
2200202486	2002-2-037	2CV4150	Two
2200203541	2003-2-003a	2CKVCVC-187	One
2200200041	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	Тwo
	2003-2-018a	2#EB1-2005	Two
2200301119	2003-2-018b	2FO4009	Тwo
	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
	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
ES100601526	SG-2-001e	2HXRC21SUP	One & Two
E3 19900 1920	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

	4			· · ·			
1. Owner: _	Calvert Cli	ffs Nuclear Pow	er Plant, Inc	• Date:06/17	/2003		
1650 Calver	t Cliffs Parkway	/: Lusby, MD 2	20657	Sheet 1 of 2			
		(address)					
	Colvert Cl	(ffc Nuclear Boy	vor Blant				
2. Plant:	Galvert Cl	(rest)		Unit:)		
		(name)					
1650 Calver	t Cliffs Parkway	r; Lusby, MD 2	20657	R&R No. 99-2-002,	MWO I	No. 21998012	252
		(address)			P.O. no., jol	b no., etc.)	
	Calver	t Cliffs Nuclear	Power Plant	Dept. Type Code Syn	ibol Stam	p: <u>N/A</u>	
3. Work Perfor	med by: <u>Outrot</u>	(name)		Authorization N	lo.: <u>N/A</u>	:	
		(111110)		Exp Date: N/A	L.		
1650 Calver	t Cliffs Parkway	r, Lusby, MD 20	657	Section XI Clas	s: T	wo	
	······································	(address)				······································	
4. Identification	n of System: Syste	m Number 061	System Nam	c: Containment Spi	ay		
5. (a) Applicable	e Construction Code	and Class: ASM Add pairs/Replacement	E Draft Cod Class Two	e for Pumps & Valves 1998 Edi	tion	Edition, Marc	sh 1970
		· · · · · ·					
6. Identification	a of Components Re	paired or Replaced a	and Replacemen	t Components:			ASME
						Repaired,	Code
Name of	Name of Manufacturer	Manufacturers Seriel Number	National Board No	Other	Year Built	Replaced, or	Stamped Ves or No)
			Buald 140.		Buiit		
Valve	Velan Enginnering Co.	2-HVSI-1096	N/A S	Containment Spray Pump #22 Suction line P.I. Isolation Valve	1977	Repaired/Repi aced	Yes
	· •						
7. Description of	f Work:				· -	1. 1. 1. I.	
- This plan was	to perform a loc	k weld on 2HVSI	-1096 valve t	onnet to secure new v	oke bus	hina.	
p				· · · · · · · · · · · · · · · · · · ·		U ^a	
8. Tests Conduct	ted Hydrostatic:	Pneumatic No	minal Operating Pr	essure: Inservice: 🗌 Leaka	re: 🗍 Fu	nctional:	
	Pressure	N/A psi	Test Temr	erature: N/A Deg. F			

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

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:

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Owner or Owner's Designee, Title Charles H. Ballard 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 7-27-60 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.
<u>Lobert Dawrence</u> Inspector's Signature Date: <u>June 20</u> 2003

1. Owner:	Calvert Cliff	fs Nuclear Powe	er Plant, Ir	າc	Date:06/05/2	003		
1650 Calvert	Cliffs Parkway;	; Lusby, MD 2	0657		Sheet 1 of 2			
	((address)					* ***	
2. Plant:	Calvert Clif	fs Nuclear Pow (name)	er Plant		Unit: <u>Two</u>	_		
1650 Calvert	Cliffs Parkway;	Lusby, MD 2	0657	R&R	No. 99-2-001, I	NWO N	lo. 2199804	167
	((address)	· · · · · · · · · · · · · · · · · · ·		(P.	0. no., job	no., etc.)	
7 Work Derfor	Calvert	Cliffs Nuclear I	Power Pla	nt Dept.	Type Code Symb	ol Stamp	⊳: <u>N/A</u>	
5. WOR PERIOR	nea by:((name)			Authorization No	: <u>N/A</u>		
ACED Only of	Oliffe Devlement	Luchu MD 200			Exp Date: <u>N/A</u>	•		
1650 Calvert	Cliffs Parkway,	LUSDY, NID 200		·,	Section XI Class:	0	ne	
5. (a) Applicable (b) Applicable	Construction Code a	and Class: ASM Class airs/Replacement	E B&PV C s One	ode Sect	. 111, 1983 Editio 1998 Editi	n, Sun on	1983 A	\dd;
6. Identification Name of	of Components Rep Name of	- aired or Replaced as Manufacturers	nd Replacem National	ent Compor	ents: Other	Year	Repaired, Replaced, or	ASME Code Stamped
 Identification Name of Componet 	of Components Rep Name of Manufacturer	- aired or Replaced as Manufacturers Serial Number	nd Replacem National Board No.	ent Compor	ents: Other entification	Year Built	Repaired, Replaced, or Replacemen (ASME Code Stamped Yes or No)
6. Identification Name of Componet RCP Seal	of Components Rep Name of Manufacturer Sulzer Bingham Inc.	aired or Replaced as Manufacturers Serial Number SN: 1C867	nd Replacem National Board No. NB 1299	ent Compon Id # 22A Reaci Mechanical	Other entification for Coolant Pump Seal	Year Built 1988	Repaired, Replaced, or Replacemen (Repaired/Repl aced	ASME Code Stamped Yes or No) Yes
6. Identification Name of Componet RCP Seal Seal	of Components Rep Name of Manufacturer Sulzer Bingham Inc. BGE CCNPP Shops	Manufacturers Serial Number SN: 1C867 2199904525 SN: 1C868	nd Replacem National Board No. NB 1299 N/A	ent Compor Id # 22A React Mechanical Seal, Cartr 875B-3V C Blagham p	Other entification for Coolant Pump Seal idge Assembly (RCP) omplete Sulzer ser FCR 87-0074	Year Built 1988 2002	Repaired, Replaced, or Replacemen (Repaired/Repl aced Replacement	ASME Code Stamped Yes or No) Yes Yes
 6. Identification Name of Componet RCP Seal Seal 7. Description of This plan was the seal 	of Components Rep Name of Manufacturer Sulzer Bingham Inc. BGE CCNPP Shops Work: for the replaceme	Manufacturers Serial Number SN: 1C867 2199904525 SN: 1C868 ent of the mecha	nd Replacem National Board No. NB 1299 N/A	Id # 22A React Mechanical Seal, Cartr 875B-3V C Bingham F	Other entification for Coolant Pump Seal idge Assembly (RCP) omplete Sulzer for FCR 87-0074	Year Built 1988 2002 Pump.	Repaired, Replaced, or Replacemen (Repaired/Repl aced Replacement	ASME Code Stamped Yes or No) Yes Yes

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

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed:
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 $\underline{8-25-00}$ to $\underline{4-20-03}$, 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 Maurence Commissions: <u>NB8226 ANI</u> <u>MD 647</u> Inspector's Signature National Board, State, and Endorsements
Date: \ ///ng . (_ 200.2

1. Owner:	Calvert Clif	ffs Nuclear Powe	er Plant, Ir	1 C .	Date: 06/05/2	2003		
		(name)		· · ·	· · · · · · · · · · · · · · · · · · ·			
1650 Calvert	Cliffs Parkway	r; Lusby, MD 20	0657		Sheet 1 of 2			
	······································	(address)						·
2 Plant.	Calvert Cli	ffs Nuclear Pow	er Plant		Ilmit Two			
2. I milt	<u> </u>	(name)			Omt			
1650 Calvert	Cliffs Parkway	; Lusby, MD 20)657	R&R	No. 2002-2-06	3a, MW	/O No. 2200	000101
		(address)			(P	.O. no., jol	b no., etc.)	
	Calvor	Cliffe Nuclear F	owor Dia	nt Dont	Type Code Symb	ol Stam	p: <u>N/A</u>	
3. Work Perform	ed by: <u>Carven</u>		UNEL FIA	ni Depi.	Authorization No	.: <u>N/A</u>		
		(name)			Exp Date: N/A			
4650 Calvert	Cliffs Parkway	, Lusby, MD 206	57		Section XI Class:	0	ne	
1000 Galvert	•••••••••••••••••••••••••••••••••••••••							
1050 Calvert		(address)						
 Identification of 5. (a) Applicable (of System: Syste	(address) m Number <u>064</u> and Class: ASME	System No E Draft Co	ame: <u>Re</u> a	actor Coolant S Imps & Valves,	<u>iystem</u> 1968 I	Edition, Mar	 rch 1970
 4. Identification of 5. (a) Applicable of (b) Applicable of 	of System: Syste Construction Code Sect XI Ed. for Re	(address) m Number <u>064</u> and Class: ASME Add; pairs/Replacement	System No E Draft Co Class On	ame: <u>Re</u> ande for Pu ne	actor Coolant S Imps & Valves, 1998 Editi	iystem 1968 I	Edition, Mar	ch 1970
 4. Identification of 5. (a) Applicable of (b) Applicable of 	of System: Syste Construction Code Sect XI Ed. for Rep	(address) m Number <u>064</u> and Class: ASME Add; pairs/Replacement	System Na E Draft Co Class Or	ame: <u>Rea</u> ode for Pu ie	actor Coolant S Imps & Valves, 1998 Editi	iystem 1968 I	Edition, Mar	ch 1970
 4. Identification of 5. (a) Applicable of (b) Applicable of 6. Identification of 	of System: Syste Construction Code Sect XI Ed. for Rep of Components Rep	(address) m Number064_ and Class: ASME Add; pairs/Replacement paired or Replaced an	System Na E Draft Co Class On d Replacem	ame: <u>Res</u> ede for Pu ne ent Compon	actor Coolant S Imps & Valves, 1998 Editi Ients:	System 1968 I on	Edition, Mar	ch 1970 ASME
 4. Identification of 5. (a) Applicable of (b) Applicable of 6. Identification of 	of System: Syste Construction Code Sect XI Ed. for Rep of Components Rep	(address) m Number064_ and Class: ASME Add; pairs/Replacement paired or Replaced an	System Na E Draft Co Class Or Id Replacem	ame: <u>Rea</u> ade for Pu ne ent Compon	actor Coolant S Imps & Valves, 1998 Editi Ients:	<u>1968 I</u> on	Edition, Mar Repaired,	ASME Code
 4. Identification of 5. (a) Applicable of (b) Applicable of 6. Identification of Name of Componet 	of System: Syste Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer	(address) m Number <u>064</u> and Class: ASME Add; pairs/Replacement paired or Replaced an Manufacturers Serial Number	System Na E Draft Co Class On Id Replacem National Board No.	ame: <u>Res</u> ode for Pu ne ent Compon	actor Coolant S Imps & Valves, 1998 Editi Ients: Other entification	1968 I on Year Built	Edition, Mar Repaired, Replaced, or Replacement	ASME Code Stamped Yes or No
 4. Identification of 5. (a) Applicable of (b) Applicable of 6. Identification of Name of Componet 	of System: Syste Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Velan Engineering Co.	(address) m Number064_ and Class: ASME Add; pairs/Replacement paired or Replaced an Manufacturers Serial Number SN: 155	System Na E Draft Co Class On d Replacem National Board No. N/A	ame: <u>Re</u> ede for Pu re ent Compon Id #21 Pressur Valve for 2-	actor Coolant S Imps & Valves, 1998 Editi tents: Other entification lizer Isolation Block ERV-402	1968 I on Year Built 1977	Edition, Mar Repaired, Replaced, or Replacemen (Repaired/Repl aced	ASME Code Stamped (Yes or No) Yes
 4. Identification of 5. (a) Applicable of (b) Applicable of 6. Identification of Name of Componet Valve Gate Valve 	of System: Syste Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Velan Engineering Co. Flowserve Corporation	(address) m Number064_ and Class: ASME Add; pairs/Replacement paired or Replaced an Manufacturers Serial Number SN: 155 405820 SN: E506T- 1-3	System Na E Draft Co Class Or Id Replacement National Board No. N/A N/A	ame: <u>Rea</u> ede for Pu le ent Compon Id #21 Pressur Valve for 2- Valve, Gate Sch. 160 Bu P/N W01-2: Gr. CF8M	actor Coolant S Imps & Valves, 1998 Edition Intertion Iter Isolation Block ERV-402 2, 2 1/2 in., 1703 lb., Intwelded, Flowserve 5821, ASME SA-351	1968 0N Year Built 1977 2002	Edition, Mar Repaired, Replaced, on Replacement Repaired/Repl aced Replacement	ASME Code Stamped (Yes or No Yes Yes
 4. Identification of 5. (a) Applicable of (b) Applicable of 6. Identification of Name of Componet Valve Gate Valve 	of System: Syste Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Velan Engineering Co. Flowserve Corporation	(address) m Number064_ and Class: ASME Add; pairs/Replacement paired or Replaced an Manufacturers Serial Number SN: 155 405820 SN: E506T- 1-3	System Na E Draft Co Class On d Replacem National Board No. N/A N/A	ame: <u>Re</u> ede for Pu le ent Compon Id #21 Pressur Valve for 2- Valve, Gate Sch. 160 Bu P/N W01-2: Gr. CF8M	actor Coolant S Imps & Valves, 1998 Edition tents: Other entification izer Isolation Block ERV-402 a, 2 1/2 in., 1703 lb., httwelded, Flowserve 5821, ASME SA-351	1968 I on Year Built 1977 2002	Edition, Mar Repaired, Replaced, or Replacement Repaired/Repl aced Replacement	ASME Code Stamped (Yes or No Yes Yes

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

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.

Test Temperature: <u>644</u>

Deg. F

Pressure: 2226

psi.

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 satisy 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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed:
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 <u>12-18-02</u> to <u>5-5-03</u> , 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.
Date: <u>June 20, 2003</u>

	Calvert Clif	fs Nuclear Powe	er Plant, Ir	nc. Date: 06/19/2	2003		
1650 Calvert	Cliffs Parkway	Lusby. MD 2	0657	Sheet 1 of 2		•	
		(address)				••• •	
2. Plant:	Calvert Cli	ffs Nuclear Pow	er Plant	Unit: One			
		(name)					
1650 Calvert	Cliffs Parkway	; Lusby, MD 20)657	R&R No. 2002-2-063	36, MV	VO No. 220	0000101
		(address)			O. no., jol	b no., etc.)	
3. Work Perform	ned by: Calver	Cliffs Nuclear F	ower Pla	nt Dept. Type Code Symb	ol Stam	p: <u>N/A</u>	
	•	(name)		Authorization No	.: <u>N/A</u>	:	
1650 Calvert	Cliffs Parkway	Lusby, MD 206	57	Exp Date: <u>N/A</u> Section XI Class:	0	no	
		(address)		000000 At Oluss.			
4. Identification	of System: System	m Number 064	System Na	me: Reactor Coolant S	ystem	l	
5.(a) Applicable	Construction Code	and Class: ASME	EB31.7 1	969 Edition, Summer 197	71 Add	l; Class On	e
 5. (a) Applicable (b) Applicable (c) Identification 	Construction Code Sect XI Ed. for Rep	and Class: ASME	E B31.7 1	969 Edition, Summer 197 1998 Edition	on	i; Class On	e
5. (a) Applicable(b) Applicable6. Identification	Construction Code Sect XI Ed. for Rep of Components Rep	and Class: ASME pairs/Replacement paired or Replaced an	E B31.7 1	969 Edition, Summer 19 1998 Edition ent Components:	71 Add	I; Class On	ASME
 (a) Applicable (b) Applicable 6. Identification Name of Componet 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number	E B31.7 1 d Replacement National Board No.	969 Edition, Summer 197 1998 Edition ent Components: Other Identification	71 Add on Year Built	I; Class On Repaired, Replaced, or Replacement	e ASME Code Stamped (Yes or No
 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Piping System 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number 4"CC-10-2001	E B31.7 1 ad Replacement National Board No. N/A	969 Edition, Summer 197 1998 Edition ent Components: Other Identification Pressurizer Piping to 2-MOV-403	71 Add on Year Built 1977	I; Class On Repaired, Replaced, or Replacemen Repaired/Repl aced	e ASME Code Stamped (Yes or No No
 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Piping System Pipe 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Consolidated Power Supply	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number 4"CC-10-2001 408690 Ht.: A27866	E B31.7 1 d Replacement National Board No. N/A N/A	969 Edition, Summer 197 1998 Edition ent Components: Other Identification Pressurizer Piping to 2-MOV-403 Pipe, 2 1/2 in., Sch. 160, ASME SA-376, Tp. 316	Year Built 1977 2002	I; Class On Repaired, Replaced, or Replacement Repaired/Repl aced Replacement	e ASME Code Stamped (Yes or No No No
 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Piping System Pipe Elbow 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Consolidated Power Supply Consolidated Power Supply	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number 4"CC-10-2001 408690 Ht.: A27866 408690 Ht.: F8746	B31.7 1 d Replacem National Board No. N/A N/A N/A	969 Edition, Summer 197 1998 Edition ent Components: Other Identification Pressurizer Piping to 2-MOV-403 Pipe, 2 1/2 in., Sch. 160, ASME SA-376, Tp. 316 Elbow, Pipe, 2 1/2 in., 90 Deg., Sch.160, Long Radius, butt weld, ASME SA-403, Gr. WP316	71 Add on Year Built 1977 2002 2002	I; Class On Repaired, Replaced, or Replacement Replacement Replacement Replacement	e ASME Code Stamped (Yes or No No No
5. (a) Applicable (b) Applicable 6. Identification Name of Componet Piping System Pipe Elbow Concentric Reducer	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Consolidated Power Supply Consolidated Power Supply Consolidated Power Supply	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number 4"CC-10-2001 408690 Ht.: A27866 408690 Ht.: F8745	E B31.7 1 d Replacement National Board No. N/A N/A N/A N/A	969 Edition, Summer 197 1998 Edition ent Components: Other Identification Pressurizer Piping to 2-MOV-403 Pipe, 2 1/2 in., Sch. 160, ASME SA-376, Tp. 316 Elbow, Pipe, 2 1/2 in., 90 Deg., Sch.160, Long Radius, butt weid, ASME SA-403, Gr. WF316 Reducer, Pipe, Concentric, 4 in. X 2 1/2 in., Sch. 120 X 160, ASME SA-403, Gr. WF316	71 Add on Year Built 1977 2002 2002 2002	i; Class One Repaired, Replaced, or Replacement Replacement Replacement Replacement Replacement	e ASME Code Stamped (Yes or No No No No

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

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.

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 satisy 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 <u>Repair/Replacement</u> conforms to the
rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A
Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed:
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
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 Commissions: <u>NBSZZGANT MD647</u> Inspector's Signature National Board, State, and Endorsements
Date: June 20 2003

1. Owner:	Calvert Clif	fs Nuclear Powe	r Plant, Ir	1C.	Date:05/23/	2003	i	
1650 Calvert	Cliffe Parkway	(name) • Lushy MD 20	1657					
1000 0414610		(addres)			Sneet 1 of 2			
			an Diant		-			
2. Plant:		(TS NUClear Powe	er Plant		Unit: IWO			
		(name)						
1650 Calvert	Cliffs Parkway	; Lusby, MD 20)657		No. 2002-2-04	4a, MV	VO No. 2200	002303
		(address)			(F	.O. no., jol	b no., etc.)	
2 Work Perform	and by: Calvert	Cliffs Nuclear P	ower Pla	nt Dept.	Type Code Sym	bol Stam	p: <u>N/A</u>	
J. WOIRICHIOIN		(name)			Authorization No	o.: <u>N/A</u>	:	
					Exp Date: <u>N/A</u>			
1650 Calvert	Cliffs Parkway,	, Lusby, MD 206	57		Section XI Class	:	ne	
		(addreece)						
4. Identification	of System: Syster	m Number052	System Na	ame: <u>Saf</u>	ety injection			
4. Identification 5. (a) Applicable	of System: System Construction Code	m Number <u>052</u> and Class: <u>ASME</u>	System Na E B&PV C	ame: <u>Saf</u> ode Sect.	ety injection III, 1989 Editic	on, Clas	ss One	<u> </u>
 Identification (a) Applicable (b) Applicable 	of System: Syster Construction Code Sect XI Ed. for Rep	n Number <u>052</u> and Class: <u>ASME</u> pairs/Replacement _	System Na E B&PV C	ame: <u>Saf</u> ode Sect.	ety Injection III, 1989 Editic 1998 Edit	on, Clas Ion	ss One	
 Identification (a) Applicable (b) Applicable Identification 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep	n Number <u>052</u> and Class: <u>ASME</u> pairs/Replacement paired or Replaced an	System Na E B&PV C ad Replacem	ame: <u>Saf</u> ode Sect. ent Compon	ety Injection III, 1989 Editic 1998 Edit ents:	on, Clas Ion	ss One	ASME
 Identification (a) Applicable (b) Applicable Identification 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep	m Number <u>052</u> and Class: <u>ASME</u> pairs/Replacement paired or Replaced an	System Na E B&PV C ad Replacem	ame: <u>Saf</u> ode Sect. ent Compon	ety Injection III, 1989 Editic 1998 Edit ents:	on, Clas Ion	ss One Repaired,	ASME Code
 Identification (a) Applicable (b) Applicable Identification Name of 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep Name of	n Number <u>052</u> and Class: <u>ASME</u> pairs/Replacement paired or Replaced an Manufacturers	System No E B&PV C od Replacem National	ame: <u>Saf</u> ode Sect. ent Compon	ety Injection III, 1989 Editio 1998 Edit ents: Other	on, Clas Ion Year	ss One Repaired, Replaced, or	ASME Code Stamped
 Identification (a) Applicable (b) Applicable Identification Name of Componet 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer	n Number <u>052</u> and Class: <u>ASME</u> pairs/Replacement paired or Replaced an Manufacturers Serial Number	System Na E B&PV C ad Replacem National Board No.	ame: <u>Saf</u> ode Sect. ent Compon Ide	ety Injection III, 1989 Edition 1998 Edit ents: Other entification	on, Clas Ion Year Built	ss One Repaired, Replaced, or Replacemen (ASME Code Stamped Yes or No
 4. Identification 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Valve 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Velan Enginnering Co.	m Number <u>052</u> and Class: <u>ASME</u> pairs/Replacement paired or Replaced an Manufacturers Serial Number <u>2-HVSI-704</u>	System Na E B&PV C ad Replacem National Board No. N/A	ame: <u>Saf</u> ode Sect. ent Compon Ide Shutdown C Isolation Dra	ety Injection III, 1989 Edition 1998 Edit ents: Other entification ooling Header First ain Valve	on, Clas lon Year Built 2002	Repaired, Replaced, or Replacemen (Repaired/Repl aced	ASME Code Stamped Yes or No Yes
 4. Identification 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Vaive Gate Vaive 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Velan Enginnering Co. Framatome ANP Inc.	n Number <u>052</u> and Class: <u>ASME</u> pairs/Replacement paired or Replaced an <u>Manufacturers</u> Serial Number <u>2-HVSI-704</u> 400425 SN: 011015-1	System Na E B&PV C ad Replacem National Board No. N/A N/A	ame: Saf ode Sect. ent Compone Ide Shutdown C Isolation Dra Valve, Gate ASME SA-J Drawing 12	ety Injection III, 1989 Edition 1998 Edit ents: Other entification ooling Header First ain Valve , 3/4 ln, 1690 lb., 182 Tp. F316, per 968-0132, Item 116.	on, Clas Ion Year Built 2002 2001	Repaired, Replaced, or Replacemen (Repaired/Repl aced Replacement	ASME Code Stamped Yes or No Yes Yes
 4. Identification 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Valve Gate Valve 7. Description of 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Velan Enginnering Co. Framatome ANP Inc.	n Number <u>052</u> and Class: <u>ASME</u> pairs/Replacement paired or Replaced an <u>Manufacturers</u> Serial Number <u>2-HVSI-704</u> 400425 SN: 011015-1	System Na E B&PV C ad Replacem National Board No. N/A N/A	ame: <u>Saf</u> ode Sect. ent Compone Ide Shutdown C Isolation Drr Valve, Gate ASME SA-J Drawing 12	ety Injection III, 1989 Edition 1998 Edit ents: Other entification ooling Header First ain Valve , 3/4 ln, 1690 lb., 182 Tp. F316, per 968-0132, item 116.	on, Clas lon Year Built 2002 2001	Repaired, Replaced, or Replacemen (Repaired/Repl aced Replacement	ASME Code Stamped Yes or No Yes Yes
 4. Identification 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Valve Gate Valve 7. Description of This plan was f 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Velan Enginnering Co. Framatome ANP Inc. Work: for the modificati	n Number <u>052</u> and Class: <u>ASME</u> pairs/Replacement <u></u> paired or Replaced an <u>Manufacturers</u> <u>Serial Number</u> <u>2-HVSI-704</u> 400425 SN: 011015-1	System Na E B&PV C ad Replacem National Board No. N/A N/A	ame: Saf ode Sect. ent Compone Ide Shutdown C Isolation Dra Valve, Gate ASME SA-J Drawing 12 HVSI-704	ety Injection III, 1989 Edition 1998 Edit ents: Other entification coling Header First ain Valve , 3/4 In, 1690 Ib., 182 Tp. F316, per 968-0132, Item 116.	on, Clas Ion Year Built 2002 2001 wn Coo	Repaired, Replaced, or Replacemen (Repaired/Repl aced Replacement	ASME Code Stamped Yes or No Yes Yes Yes

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

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.

Pressure:

<u>N/A</u>

psi.

Test Temperature: <u>N/A</u>

Deg. F

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 <u>Repair/Replacement</u> conforms to the
rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: <u>Mus H. Ballard</u> Owner or Owner's Designee, Title Charles H. Ballard Engineering Technician Date: <u>05/23/2003</u>
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 Warrence, Commissions: NB8226 ANE, MD647 Inspector's Signature National Board, State, and Endorsements
Date: <u>May 27</u> 200 <u>3</u>

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

				<u> </u>			
1. Owner:	Calvert Cliff	s Nuclear Powe	r Plant, Ir	Date: 05/23/2	003		
ASED Colvert (Cliffe Darlovev	(name)	1657			. •	
1650 Calvert	Sins Parkway;	(address)		Sheet 1 of 2		•,	
	Calvert Clif	to Nuclear Dour	or Blant				
2. Plant:	Gaivert Gill	IS NUClear POW		Unit: IWO			•
1650 Calvert (Cliffs Parkway;	Lusby, MD 20)657	R&R No. 2002-2-044	ь, ми	/O No. 2200	002303
	((address)		(P.	О. по., jot	no., etc.)	
3. Work Perform	d by: Calvert	Cliffs Nuclear P	ower Pla	nt Dept. Type Code Symb	ol Stamj	p: <u>N/A</u>	
	. (name)		Frn Date: N/A	.: <u>IN/A</u>		
1650 Calvert C	Cliffs Parkway,	Lusby, MD 206	57	Section XI Class:	0	ne	
<u></u>	(address)					
4. Identification of	of System: System	n Number <u>064</u>	System Na	me: <u>Reactor Coolant S</u>	ystem		
5. (a) Applicable (Construction Code	and Class: ASME	EB31.7 1	969 Edition, Summer 197	71 Add	l; Class One	;
(b) Applicable S	lect XI Ed. for Rep	airs/Replacement		1998 Editi	on .		
6. Identification o	f Components Rep	aired or Replaced an	d Replacem	ent Components:	· .	Demoined	ASME
Name of	Name of	Manufacturers	National	Other	Year	Replaced, or	Stamped
Componet	Manufacturer	Serial Number	Board No.	Identification	Built	Replacemen (Yes or No)
Piping System	Bechtel	2-CC-14-2004	N/A	Shutdown Cooling Piping Through Containment to Isolation Vaives	1977	Repaired/Repl aced	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	Na
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	Grinneli Corporation	54500-GX HL#: PL097	N/A	Clamp, Restraint Base, 3/4 in. Part# 5 of PG-41/43 on Drwg.# FSK-MP-0571SH 0005	19 91	Replacement	No
Bolt	Allied Group	30754 Heat Code: Z84	N/A	Boit, 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

7. Description of Work:

This plan was for the new piping, fittings and hanger support material used to support the installation of valves 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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed:
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.
Lobut Dawrence Commissions: <u>NB 822C ANI, MD 647</u> Inspector's Signature National Board, State, and Endorsements
Date: When 27 2002

					· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
1. Owner:	Calvert Cli	ffs Nuclear Powe	er Plant, Ir	nc.	Date: _06/05	2003		
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657		Sheet 1 of 2			
		(address)		····	•			
2. Plant:	Calvert Cl	ffs Nuclear Pow (name)	er Plant		Unit: <u>Two</u>		3	
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657	R&F	R No. 2002-2-02	22, MW(O No. 2200 [.]	101202
		(address)			(P.O. no., jo	b no., etc.)	
3. Work Perform	ned by: Calver	t Cliffs Nuclear I	Power Plan	nt Dept.	Type Code Sym Authorization N	bol Stam o.: <u>N/A</u>	p: <u>N/A</u>	
					Exp Date: <u>N/A</u>	•		
1650 Calvert	Cliffs Parkway	, Lusby, MD 200	57		Section XI Class	s: <u> </u>	wo	
1 11	60	(address)	0		in Steam & SG		lown	
5. (a) Applicable(b) Applicable	Construction Code Sect XI Ed. for Re	and Class: ASM	E B31.7 19	969 Editi	on, Summer 19 1998 Edit	971 Add	i; Class Tw	0
6. Identification	of Components Re	paired or Replaced as	nd Replaceme	ent Compor	ents:			ASME
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Id	Other entification	Year Built	Repaired, Replaced, or Replacemen	Code Stamped (Yes or No)
Piping System	Bechtel	4"EB-12-2009	N/A	Piping from Header to 2 Atmospheri	#21 Main Steam -CV-3939, c Dump Valve	1977	Repaired/Repi aced	No
Elbow	DuBose National Energy Services Inc.	400430 Heat Code: H676L	N/A	Elbow, Pip Sch.40, Loi ASME SA-	e, 4 in., 90 Deg., 1g Radius, butt weld, 234 Gr. WPB	20 01	Replacement	No
7. Description of	Work:				1			
This plan was f Header to 2-CV	or the replacem /-3939, Atmospl	ent of two 90 deg heric Dump Valve	ree elbows	s on 4"EB	-12-2009, pipin	g from a	#21 Main St	eam
8. Tests Conducte	d: Hydrostatic:	Pneumatic Non	ninal Operating I	Pressure:	Inservice: 🔲 Leakag	e: 🗹 🛛 Fun	ictional:	
	Pressure:	846 psi.	Test Terr	perature:	524 Deg. F			

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

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.

psi.

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed:
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 <u>6-25-02</u> to <u>4-19-03</u> , 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.
Date: June (3, 2003

1. Owner: _	Calvert Cli	ffs Nuclear Powe	er Plant, Ir	1C.	Date: 06/18	/2003		
1650 Calver	t Cliffe Barkway	(name) / Luchy MD 2	0657					
1050 Galver		(address)			Sheet 1 of 2			
	Calvort Cl	iffe Nuclear Bow	or Blant					
2. Plant:		(name)			Unit:			
1650 Calver	t Cliffs Parkway	r; Lusby, MD 20	0657	R&R	No. 2003-2-0	24, MW(O No. 22001	01349
<u> </u>		(address)				(P.O. no., jot	o no., etc.)	
2 World Dorfor	Calver	t Cliffs Nuclear F	Power Pla	nt Dept.	Type Code Syn	ibol Stam	p: <u>N/A</u>	
5. WOIK Fellor	med by:	(name)		· · ·	Authorization N	ło.: <u>N/A</u>		
4050 Calvert			257		Exp Date: <u>N/4</u>	7		
1650 Calven	Clims Parkway	, Lusby, MD 200			Section XI Clas	s:	ne	
5. (a) Applicable(b) Applicable6. Identification	e Construction Code e Sect XI Ed. for Re n of Components Re	and Class: ASMI Add; pairs/Replacement paired or Replaced an	E Draft Co Class Or nd Replacem	ode for Pu ne ent Compon	mps & Valves 1998 Edi ents:	s, 1968 I tion	Edition, Mar	Cch 1970
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Iđ	Other entification	Year Built	Replaced, or Replacemen	Stamped (Yes or No)
Valve	Velan Engineering Co.	SN: V1090	N/A	#22A Safety Motor Oper	Injection Tank ated Isolation Valve	1977	Repaired/Repi aced	No
SSF. 4	Velan Inc.	51582-GX SN: 3559	N/A	Wedge, 12 8959-097N4 Gr. F316, D	in. Gate, Velan P/N: 40, ASME SA-182, Prawing #12320-0001	1990	Replacement	No
wedge				item #12	. –			
weage	f Work:			item #12				
wedge 7. Description of This plan was Operated Isola	f Work: for the work and ation Valve.	I parts needed to	rebuild 2-N	Item #12 10V-644,	#22A Safety Ir	njection ⁻	Tank Motor	

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

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:

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.							
	Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>							
1	Signed: Charles H. Ballard Owner or Owner's Designee, Title Charles H. Ballard Engineering Technician Date: 06/18/2003							
	Certificate of Inservice Inspection							
i	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 <u>3-25-03</u> to <u>5-6-03</u> , 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.							
	Date: June 20, 2003							
1. Owner:	Calvert Clif	fs Nuclear Pow	er Plant, I	nc.	Date:06.	/05/200	3	·
--------------------	----------------------------	--------------------------------	---------------------------------------	--	--	-------------------------	--------------------------	-------------
1650 Calver	rt Cliffs Parkwav	Lusby. MD	20657		· Sheat (of 3		•	
		(address)				•	•	
	Calvort Clif	ffe Nuclear Pow	ver Plant					
2. Plant:		(name)		<u> </u>	Unit:	wo		
1650 Calver	t Cliffs Parkway	; Lusby, MD 2	0657	R&R	No. 2002-2	2-031, N	WO No. 2200 [.]	102593
	····	(address)	· · · · · · · · · · · · · · · · · · ·			(P.O. no	о., јођ по., etc.)	
2 Work Perfor	med hy: Calvert	Cliffs Nuclear	Power Pla	int Dept.	Type Code S	Symbol S	tamp: <u>N/A</u>	
5. WOIK FEIIO	imed by	(name)		······································	Authorizatio	n No.:]	<u>N/A</u>	
			~~ ~		Exp Date:]	<u> 1/A</u>		
1650 Calver	t Clittis Parkway,	Lusby, MD 20	657		Section XI C	lass:	One	
	(address)			-to Intentio	_		
4. Identificatio	n of System: Syster	n Number <u>052</u>	System N	ame: <u>Sari</u>	ety injectio	<u>n</u>	· · · ·	
5 (a) Applicabl	e Construction Code	and Class, ASM	E 816 5 1		n Steel Pi	ne Flan	ces and Fianc	ad
J. (a) Application		Fittir	as NPS 1	72" thru 24	" & CCase	N-10	ges and many	
					4000 5	-1141	•	
(b) Applicable	e Sect XI Ed. for Rep	airs/Replacement	·	•	1998 6	αιτιοη		
6. Identification	n of Components Rep	aired or Replaced a	nd Replacem	ent Compone	ints:	•		ASME
							Repaired,	Code
Name of	Name of	Manufacturers	National	нт	Other	Y	ear Replaced, or	Stamped
Componet	Manufacturer	Serial Number	Board No.	Ide	ntification	Bı	uilt Replacemen	(Yes or No)
Valve	Velan Enginnering Co.	2-CKVSI-237	N/A	#22B Reactor Safety Injecti	Coolant Loop on Check Valve	193	77 Repaired/Repi aced	No
Disc	Velan Valve Corporation	404387 SN: 7559	N/A	Disc, Velan, Valve, ASMI Drwg. 12124	12 in. 1500 lb. C E SA-182, Tp. F: -0001, item #3	heck 20 116,	02 Replacement	No
Stud	Velan Engineering Co.	53907-GX Heat Code: V5 & B4	N/A	Stud, Cover, ASME SA-19 ib. Check, Dr #18	1 7/8 In. X 8 TP 93 Gr.B7, 12 In. wg. 12124-0001	l, 19 1500 , Item	91 Replacement	No
Nut	Velan Engineering Co.	70899-GX Heat Code: V30	N/A	Nut, Hex, Co TPI, SA-194 Check, Drwg #17	ver, 1 7/8 in. X 8 Gr7, 12 in., 1500 . 12124-0001, ite	19 1b. m	92 Replacement	No
Nut	Velan Engineering Co.	90247-GX Heat Code: V50	N/A	Nut, Hex, Co TPI, SA-194 Check, Drwg. #17	ver, 1 7/8 in. X 8 Gr7, 12 in., 1500 . 12124-0001, ite	199 Ib. m	94 Replacement	No

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

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:	<u>N/A</u> psi.	Test Temperature:	<u>N/A</u>	Deg. F	

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.

Certificate of Compliance We certify that the statements made in this report are correct and that this <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.					
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>					
Signed:					
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 <u>8-23-02</u> to <u>5-13-03</u> , 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.					
Date: June 13 2003					

1. Owner:	Calvert Cliff	fs Nuclear Powe	nc Date:06/17/	2003			
		(name)				•	
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657	Sheet 1 of 2	•	•	*
		(address)					
2. Plant:	Calvert Clif	ffs Nuclear Pow	er Plant	Unit: Two			
		(name)					
1650 Calvert (Cliffs Parkway;	; Lusby, MD 2	0657	R&R No. 2002-2-07	'0b, MV	VO No. 2200	103213
		(address)	<u> </u>	(°.O. no., jo	b no., etc.)	
3 Work Perform	d by Calvert	Cliffs Nuclear I	Power Pla	nt Dept. Type Code Sym	bol Stam	p: <u>N/A</u>	
<i>J. WORLDREED</i>		(name)		Authorization N	o.: <u>N/A</u>	•	
1650 Calvert (Sliffs Parkway	Lushy MD 200	657	Exp Date: <u>N/A</u>		-	
				SECTION AT CLASS	: U	ne	
		(address)		· ·			
4. Identification of	of System: Syster	(address) m Number <u>041</u>	System Na	ame: Chemical Volume	Contro	ol	
 4. Identification of 5. (a) Applicable ((b) Applicable S 	of System: Syster Construction Code Sect XI Ed. for Rep	(address) m Number <u>041</u> and Class: <u>ASM</u> pairs/Replacement	System Na E B31.7 1	ame: <u>Chemical Volume</u> 969 Edition, Summer 19 1998 Edit	Contro 071 Add	ol I; Class On	e
 4. Identification of 5. (a) Applicable ((b) Applicable S 6. Identification of 	of System: Syster Construction Code Sect XI Ed. for Rep of Components Rep	(address) m Number <u>041</u> and Class: <u>ASM</u> pairs/Replacement paired or Replaced an	System No E B31.7 1 nd Replacem	ame: <u>Chemical Volume</u> 969 Edition, Summer 19 1998 Edit ent Components:	Ontro 71 Add	ol d; Class Ond	ASME
 4. Identification of 5. (a) Applicable ((b) Applicable S 6. Identification of 	of System: Syster Construction Code Sect XI Ed. for Rep of Components Rep Name of	(address) m Number <u>041</u> and Class: <u>ASM</u> pairs/Replacement paired or Replaced an Manufacturers	System Na E B31.7 1 nd Replacem National	ame: <u>Chemical Volume</u> 969 Edition, Summer 19 1998 Edit ent Components: Other	ion	ol d; Class On Repaired, Replaced or	e ASME Code Stamped
 4. Identification of 5. (a) Applicable ((b) Applicable S 6. Identification of Name of Componet 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer	(address) m Number <u>041</u> and Class: <u>ASM</u> pairs/Replacement paired or Replaced an Manufacturers Serial Number	System Na E B31.7 1 and Replacem National Board No.	ame: <u>Chemical Volume</u> 969 Edition, Summer 19 1998 Edit ent Components: Other Identification	ion Year Built	ol d; Class On Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No
 4. Identification of 5. (a) Applicable ((b) Applicable S 6. Identification of Name of Componet Piping System 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel	(address) m Number <u>041</u> and Class: <u>ASM</u> pairs/Replacement paired or Replaced an Manufacturers Serial Number <u>2"CC-5-2006</u>	System No E B31.7 1 and Replacem National Board No. N/A	ame: <u>Chemical Volume</u> 969 Edition, Summer 19 1998 Edit ent Components: Other Identification #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop	Contro 71 Add ion Year Built 1977	ol d; Class On Repaired, Replaced, or Replacement Replacement Repaired/Repl aced	ASME Code Stamped (Yes or No No
 4. Identification of 5. (a) Applicable ((b) Applicable S 6. Identification of Name of Componet Piping System Nut 	of System: System Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Mackson Inc.	(address) m Number <u>041</u> and Class: <u>ASM</u> pairs/Replacement paired or Replaced an <u>Manufacturers</u> Serial Number <u>2"CC-5-2006</u> 400066 Heat Code: JKX	System Na E B31.7 1 and Replacem National Board No. N/A N/A	ame: Chemical Volume 969 Edition, Summer 19 1998 Edit ent Components: Other Identification #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop Nut, Heavy Hex, 7/8 (n. X 9 TPI, ASME SA-194 Gr. 2H	Contro 071 Add ion Year Built 1977 2000	cl d; Class On Repaired, Replaced, or Replacement Repaired/Repl aced Replacement	e ASME Code Stamped (Yes or No No No
 4. Identification of 5. (a) Applicable O (b) Applicable S 6. Identification of Name of Componet Piping System Nut Alithread Rod 	of System: Syster Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Mackson Inc. Nova Machine Products Corp.	(address) m Number <u>041</u> and Class: <u>ASM</u> pairs/Replacement paired or Replaced an <u>Manufacturers</u> Serial Number <u>2"CC-5-2006</u> 400066 Heat Code: JKX 402325 Ht.#: 69541	System Na E B31.7 1 and Replacem National Board No. N/A N/A N/A	ame: Chemical Volume 969 Edition, Summer 19 1998 Edit ent Components: Other Identification #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7	2 Contro 071 Add 10n Year Built 1977 2000 2000	ol d; Class One Repaired, Replaced, or Replacement Replacement Replacement Replacement	ASME Code Stamped (Yes or No No No

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

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	:0	Nominal Operating Pressure:	Inservice:	Leakage: 🔽	Functional:
		Pressure:	<u>2355</u>	psi.	Test Temperature:	<u>375</u>	Deg. F	

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.

Certificate of Compliance We certify that the statements made in this report are correct and that this <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: <u>Charles H. Ballard</u> Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors 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 <u>Z-4-03</u> to <u>6-Z-03</u> , 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.
Lobut Commissions: NBBZZCANI MD647 Inspector's Signature National Board, State, and Endorsements
Date: June 20, 2003
Ú

1. Owner:	Calvert Clif	fs Nuclear Powe	r Plant, In	с.	Date: 05/2	3/2003		
		(name)						
1650 Calvert	Cliffs Parkway	; Lusby, MD 20		Sheet 1 of 2				
		(address)			•			
2. Plant:	Calvert Cli	ffs Nuclear Powe	er Plant		Unit: Tw	0		
		(name)			-			
1650 Calvert	Cliffs Parkway	; Lusby, MD 20	657	R&R	No. 2003-2-	014b, MW	/O No. 2200	0103623
		(address)				(P.O. no., jot) no., etc.)	
2 Work Perform	ad her Calver	Cliffs Nuclear P	ower Plar	nt Dept.	Type Code Sy	mbol Stam	p: <u>N/A</u>	
3. Work Performed by: Authorization No.:						No.: <u>N/A</u>		
Exp Date: <u>N/A</u>								
1050 Calvert	CIIIIS Fairway	(address)	J/		Section XI Cla	ass:	ne	
4 T1	- 6 Q		Claure de la 27a	Dos	etor Coolan	t Svetam		
4. Identification	of System: Syste	m Number 004	System Na	me: <u>Nec</u>		t System		
5.(a) Applicable	Construction Code	and Class: ASME	B&PV Conses: 133	ode Sect. 5-2. 1336.	III, 1965 Edit	tion, Win	ter 1967 Ad	ld; Class
(b) Applicable S	Sect XI Ed. for Rej	pairs/Replacement	•		1998 Ec	lition		· · ·
6. Identification of	of Components Rep	paired or Replaced an	d Replaceme	ent Compon	ents:	•		ASME
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Ide	Other	Y c ar Built	Repaired, Replaced, or Replacemen	Code Stamped (Yes or No)
Pressure Vessei	Combustion Engineering	CE-67108; CE-67208	20912	Unit Two Re	eactor Vessel & He	ad 1971	Repaired/Repl aced	No
7. Description of V	Work:	Reactor Vessel H	ead Vent	Pining Pe	netration noz	zle .l-aroc	we welde I	t allows

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:	Pneumati	c:	Nominal Operating Pressure:	Inservice: 🗌	Leakage: 🗌	Functional: 🛄
		Pressure:	<u>N/A</u>	psi.	Test Temperature:	<u>N/A</u>	Deg. F	

9. Remarks:

Date: M

2003

27

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

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: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
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 <u>3-13-03</u> to <u>4-16-03</u> , 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.
Cobut Lawrence Commissions: <u>JB8226 AVI MD647</u> Inspector's Signature National Board, State, and Endorsements

1. Owner:	Calvert Cli	ffs Nuclear Powe	er Plant, Ir	nc.	Date: 06/19/2	003		
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657	· · ·	Sheet 1 of 2			
		(address)				•		
2. Plant:	Calvert CI	Iffs Nuclear Pow (name)	er Plant		Unit: <u>Two</u>			
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. 200						ia, MV	/O No. 2200	200044
		(address)		· ·	(P.	O. no., jol	no., etc.)	
3 Work Perform	hed by: Calver	t Cliffs Nuclear F	Power Pla	nt Dept.	Type Code Symbo	ol Stam	p: <u>N/A</u>	
3. Work Performed by:					Authorization No.	: <u>N/A</u>		
4050 O-1					Exp Date: <u>N/A</u>	_		
1650 Calvert Cliffs Parkway, Lusby, MD 20657 Section XI Class: C						0	ne	
		(address)		Be	enter Coolent S			
4. Identification	of System: Syste	m Number 004	System Na	ime: <u>Rea</u>	actor Coolant S	ystem	· · · · · · · · · · · · · · · · · · ·	
5. (a) Applicable	Construction Code	and Class: ASM	E Draft Co Class On	de for Pu	mps & Valves,	1968 E	Edition, Mar	ch 1970
(b) Applicable	Sect XI Ed. for Re	pairs/Replacement			1998 Editio	on		ч -
	- 60							
6. Identification	of Components Re	paired or Replaced ar	ia Replacem	ent Compon	ents:		Denstat	ASME
Name of	Name of	Manufacturers	National		Other	Vear	Replaced or	Stamped
Componet	Manufacturer	Serial Number	Board No.	Id	entification	Built	Replacemen (Yes or No)
Valve	Velan Engineering Co.	SN: 154	N/A	Pressurizer for 2-ERV-4	Isolation Block Valve	1977	Repaired/Repl aced	Yes
Gate Valve	Flowserve Corporation	405820 SN: E506T- 1-4	N/A	Valve, Gate Sch. 160 Bu P/N W01-25 Gr. CF8M	e, 2 1/2 in., 1703 ib., ittweided, Flowserve 5821, ASME SA-351	2002	Replacement	Yes
7 Description of	Work							•
This plan was f	for the replacen	nent of 2-MOV-40	5. #21 Pre	ssurizer Is	olation Block Va	lve for	2-ERV-404	
8. Tests Conducte	d: Hydrostatic:	Pneumatic: Nor	ninal Operating	Pressure: 1	inservice: 🔲 Leakage:	🗹 Fur	ictional:	
•	Pressure:	2226 psi.	Test Ter	nperature:	644 Deg. F			

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

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.

psi.

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.

Certificate of Compliance We certify that the statements made in this report are correct and that this <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed:Owner or Owner's Designee, Title Charles H. BallardDate: 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 <u>12-18-07</u> to <u>5-2-03</u> , 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.
Lobut 1 Faurence Commissions: NBBZZE ANI MOG47
Date: Date: 20, 2003

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

e 065b, MWO No. 2200200044 (P.O. no., job no., etc.) mbol Stamp: <u>N/A</u> No.: <u>N/A</u> A iss: <u>One</u> t System
e 065b, MWO No. 2200200044 (P.O. no., job no., etc.) mbol Stamp: <u>N/A</u> No.: <u>N/A</u> A iss: <u>One</u> t System
e 065b, MWO No. 2200200044 (P.O. no., job no., etc.) mbol Stamp: <u>N/A</u> No.: <u>N/A</u> A iss: <u>One</u> t System
065b, MWO No. 2200200044 (P.O. no., job no., etc.) mbol Stamp: <u>N/A</u> No.: <u>N/A</u> A ass: <u>One</u> t System
065b, MWO No. 2200200044 (P.O. no., job no., etc.) mbol Stamp: <u>N/A</u> No.: <u>N/A</u> A iss: <u>One</u> t System
(P.O. no., job no., etc.) mbol Stamp: <u>N/A</u> No.: <u>N/A</u> Ass: <u>One</u> t System
mbol Stamp: <u>N/A</u> No.: <u>N/A</u> <u>A</u> uss: <u>One</u> t System
No.: <u>N/A</u> <u>A</u> iss: <u>One</u> t System
A uss: One t System
t System
t System
t System
· · ·
1971 Add; Class One lition
ASME
Repaired, Code
Built Replacemen (Yes or No)
05 1977 Repaired/Repi No aced
n. X 2002 Replacement No E
-4 -4 M

8.	Tests Conducted:	Hydrostatic:	Pneumatic:	Nominal Operating Pressure:	Inservice:	Leakage: 🔽	Functional:
		Pressure:	<u>2226</u> psi.	Test Temperature:	<u>644</u>	Deg. F	

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 satisy 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.

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: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Signed: Charles H. Ballard Wyner or Owner's Designee, Title 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 <u>12-18-02</u> to <u>5-2-03</u> , 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 Date: Date: 2003
Dans years and your your your your your your your your

1. Owner:	Calvert Clif	fs Nuclear Powe	er Plant, Ir	n c.	Date: 06/19/2	003		
1650 Calvert C	liffs Parkway	; Lusby, MD 2	0657		Sheet 1 of 2			
		(address)					•	
2 Plant.	Calvert Cli	ffs Nuclear Pow	er Piant		Unit. Two			н. 1911 - 1911 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914
Z. J Iant.		(name)			0mt			
1650 Calvert C	liffs Parkway	: Lusby, MD 2	0657	R&R	No. 2002-2-065	ic, MW	O No. 2200	200044
		(address)			(P.C). no., jot	no., etc.)	
9 117 1 D. C.	Calvert	Cliffs Nuclear I	Power Pla	nt Dept.	Type Code Symbo	ol Stamp): <u>N/A</u>	
3. Work Performe	a by:	(name)		<u></u>	Authorization No.	: <u>N/A</u>		
4050 Only and C	Niffe Destaurou		~~~		Exp Date: <u>N/A</u>	-		
1650 Calvert L	Sims Parkway,	(address)			Section XI Class:	0	ne	
A Identification o	f Suctem Sucte	n Number 064	Sustem No	Rea	ctor Coolant S	vstem		
4. Identification o	i bystein. bystei		bystem 142			<u>y u tu iii</u>		<u> </u>
5. (a) Applicable C	Construction Code	and Class: ASM	E B31.7 1	969 Editio	on, Summer 197	1 Add	i; Class On	8
(b) Applicable S	ect XI Ed for Rer	airs/Renlacement			1998 Editid		•	
(U) Application B			· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
6. Identification of	f Components Rep	aired or Replaced a	nd Replacem	ent Compone	ents:			ASME
Name of	Name of	Manufacturers	National		Other	Vaar	Repaired, Replaced on	Code
Componet	Manufacturer	Serial Number	Board No.	Ide	entification	Built	Replacemen	(Yes or No)
Piping System	Bechtel	3/4"CC-10-2009	N/A	Pressurizer P	Piping to 2-SX-6450	1977	Repaired/Repl aced	No
Angle	DuBose National Energy Services Inc.	400428 Ht.: JC1808	N/A	Angle, 4 in. 2 ASME SA-3	X 4 in. X 1/4 in., 6	2001	Replacement	No
Pipe	Tiogs Pipe Supply Co. Inc.	402564 Ht.: L42618	N/A	Pipe, 3/4 in. : 376, TP-316	Sch. 160, ASME SA-	2001	Replacement	No
Coupling	DuBose National Energy Services Inc.	54906-GX Heat Code: EPM	N/A	Coupling, 3/4 Socketweid, 4 F316	4 in. , 6000 lb., ASME SA-182, Gr.	1992	Replacement	No
Rod	Allied Group	39264 Ht.#: 8990981	N/A	Rod, Allthre ASME SA-19	ad, 3/8 in. X 16 TPI, 93 Gr. B7	1999	Replacement	No
	ork:					•		
Description of W	V 6441							
7. Description of W This plan was fo Pressurizer Isola	r the 3/4" piping tion Block Valv	g/fittings/material /e for 2-ERV-404	l in support	t of the rep	lacement of 2-N	10V-4	05, #21	
 Description of W This plan was fo Pressurizer Isola Tests Conducted 	r the 3/4" piping ition Block Valv	g/fittings/materia /e for 2-ERV-404 Pneumatic Nor	l in support	t of the rep Pressure: In	lacement of 2-N	10V-4	05, #21	

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

9. Remarks:

Date:

une zo, 200<u>3</u>

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

Certificate of Compliance We certify that the statements made in this report are correct and that this <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
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 <u>12-B-02</u> to <u>S-Z-03</u> , 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.
Lobut W Auslince Commissions: <u>NB8226 ANI MD647</u> Inspector's Signature National Board, State, and Endorsements

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	R No. 2002-2-068a, MWO No. 2200200279
(address)	(P.O. no., job no., etc.)
3 Work Performed by: Calvert Cliffs Nuclear Power Plant Dept.	Type Code Symbol Stamp: <u>N/A</u>
(name)	- Authorization No.: <u>N/A</u>
AND ONLY AND DEVICE A MALE MAD BOOT	Exp Date: <u>N/A</u>
1650 Calvert Cliffs Parkway, Lusby, MD 20657	Section XI Class: One
(address)	
4. Identification of System: System Number <u>U41</u> System Name: <u>U1</u>	iemical volume Control
ACHE Droft Code for D	umma P. Values 1969 Edition March 1970
	TTERTER AND ANTIMETS STREET BUILDING TO AND A DEPARTMENT A
5. (a) Applicable Construction Code and Class: ASME Draft Code for Pl Add: Class One	umps & valves, 1900 Edition, March 1970
(b) Applicable Sect XI Ed. for Repairs/Replacement	1998 Edition
(b) Applicable Sect XI Ed. for Repairs/Replacement	1998 Edition
 (a) Applicable Construction Code and Class: ASME Draft Code for Pro- Add; Class One (b) Applicable Sect XI Ed. for Repairs/Replacement 6. Identification of Components Repaired or Replaced and Replacement Components 	1998 Edition nents: ASME
 (a) Applicable Construction Code and Class: ASME Draft Code for Print Co	1998 Edition nents: Other ASME Repaired, Code Starmed
 5. (a) Applicable Construction Code and Class: ASME Draft Code for Pro- Add; Class One (b) Applicable Sect XI Ed. for Repairs/Replacement 6. Identification of Components Repaired or Replaced and Replacement Component Name of Manufacturers National Componet Manufacturer Serial Number Board No. Identification No. Identification 	1998 Edition nents: ASME Repaired, Code Other Year Replaced, or Stamped dentification Built Replacemen (Yes or No)
5. (a) Applicable Construction Code and Class: ASME Draft Code for Private	Imps & valves, 1900 Edition, March 1970 1998 Edition nents: ASME nents: ASME Other Year Repaired, Code Code Other Year Replaced, or Stamped dentification Built Replacemen (Yes or No) Heat Exch. to #21 1977 Repaired/Repl Yes aced
5. (a) Applicable Construction Code and Class: ASME Draft Code for Pride Add; Class One (b) Applicable Sect XI Ed. for Repairs/Replacement 6. Identification of Components Repaired or Replaced and Replacement Component Name of Name of Manufacturers National Componet Manufacturer Serial Number Board No. Identification Valve Velan Engineering SN: 41-5N1 N/A #21 Regen. Co. Pressurizer Valve Enertech Inc. 408934 SN: 11262 N/A Valve, Noz ib., Large connection	Umps & valves, 1900 Edition, March 1970 1998 Edition nents: ASME nents: ASME Other Year Repaired, Code Other Year Replaced, or Stamped dentification Built Replacemen (Yes or No) Heat Exch. to #21 1977 Replacemen (Yes or No) Heat Exch. to #21 1977 Replacement (Yes or No) Heat Exch. to #21 1977 Replacement (Yes or No) Zzle Check, 2 In., 1500 2002 Replacement Yes Groove Flanged end aced Yes Yes
5. (a) Applicable Construction Code and Class: ASME Draft Code for Pr Add; Class One (b) Applicable Sect XI Ed. for Repairs/Replacement 6. Identification of Components Repaired or Replaced and Replacement Component Name of Name of Manufacturers National Componet Manufacturer Serial Number Board No. Id Valve Velan Engineering SN: 41-5N1 N/A #21 Regen. Co. Pressurizer Valve Check Valve Enertech Inc. 408934 SN: 11262 N/A Valve, Noz Ib., Large connection 7. Description of Work:	Unips & valves, 1900 Edition, March 1970 1998 Edition Innents: ASME Other Other Other Year Replaced, or Stamped dentification Built Replaced, or Stamped dentification Heat Exch. to #21 1977 Repaired/Repl Yes aced zzle Check, 2 in., 1500 2002 Replacement Yes Groove Flanged end na, Enertech, Tp. KRV
5. (a) Applicable Construction Code and Class: ASME Draft Code for Pride Add; Class One (b) Applicable Sect XI Ed. for Repairs/Replacement 6. Identification of Components Repaired or Replaced and Replacement Component Name of Name of Manufacturers National Componet Manufacturer Serial Number Board No. In Valve Velan Engineering SN: 41-5N1 N/A #21 Regen. Co. Pressurizer Valve Check Valve Enertech Inc. 408934 SN: 11262 N/A Valve, Noz Ib., Large connection 7. Description of Work: This plan wass for the work needed to replace 2-CKVCVC-185, #21 Aux. Spray Check Valve.	Umps & valves, 1900 Edition, March 1970 1998 Edition Innents: ASME Other Year Repaired, Code Other Year Replaced, or Stamped dentification Built Replacemen (Yes or No) Heat Exch. to #21 IP77 Repaired/Repl Yes aced zzle Check, 2 in., 1500 2002 Groove Flanged end as, Enertech, Tp. KRV 1 Regen. Heat Exch. to #21 Pressurizer
 S. (a) Applicable Construction Code and Class: ASME Draft Code for Pradd; Class One (b) Applicable Sect XI Ed. for Repairs/Replacement 6. Identification of Components Repaired or Replaced and Replacement Components Name of Name of Manufacturers National Componet Manufacturer Serial Number Board No. Id Valve Velan Engineering SN: 41-5N1 N/A #21 Regen. Co. Pressurizer Valve Check Valve Enertech Inc. 408934 SN: 11262 N/A Valve, Not lib., Large connection 7. Description of Work: This plan wass for the work needed to replace 2-CKVCVC-185, #21 Aux. Spray Check Valve. 8. Tests Conducted: Hydrostatic: Pneumatic Nominal Operating Pressure: 	Umps & valves, 1900 Edition, March 1970 1998 Edition ments: ASME ments: ASME Other Year Repaired, Code Other Year Replaced, or Stamped dentification Built Replacemen (Yes or No) Heat Exch. to #21 1977 Repaired/Repl r Aux. Spray Check aced yes zzle Check, 2 in., 1500 2002 Replacement Yes Groove Flanged end as, Enertech, Tp. KRV 2002 Replacement Yes 1 Regen. Heat Exch. to #21 Pressurizer Inservice: Leakage: F Functional: Inservice:

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 Repair/Replacement** conforms to the We certify that the statements made in this report are correct and that this rules of the ASME Code, Section XI. Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A Charles H. Ballard Signed: Date: **Engineering Technician** 06/18/2003 Owner or Owner's Designee, Title **Certificate of Inservice Inspection** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors 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 <u>2-4-03</u> 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. MACE Commissions: <u>NBSZZCANZ, MD64</u> National Board, State, and Endorsements ezo 2003

1. Owner:	Calvert Clif	fs Nuclear Powe	er Plant, Ir	າເ.	Date: _06/18/2	2003		
1650 Calvert (Cliffs Parkway	Lusby, MD 2	0657		Sheet 1 of 4.			
		(address)						
2. Plant:	Calvert Clif	fs Nuclear Pow	er Plant	<u></u>	Unit: Two			
1650 Calvert (Cliffs Parkway;	Lusby, MD 20	0657	R&R	No. 2002-2-06	sb, MV	VO No. 220	0200279
	((address)				О. по., јо	o no., etc.)	
	Calvert	Cliffe Nuclear F	ower Dis	nt Dont	Type Code Symb	ol Stam	p: <u>N/A</u>	
3. Work Performe	ed by: <u>Carvert</u>		UNCI FIA	in Dept.	Authorization No	.: <u>N/A</u>	۰. ۱	
	,	(1411)-57			Exp Date: <u>N/A</u>			
1650 Calvert C	Cliffs Parkway,	Lusby, MD 206	57		Section XI Class:	0	ne	
 Identification o (a) Applicable C 	of System: Syster	n Number <u>041</u> and Class: <u>ASM</u>	System Na E B31.7 1	ame: <u>Chei</u> 969 Edition	mical Volume n, Summer 19	Contro 71 Ado	ol I; Class On	e
(b) Applicable S	ect XI Ed. for Rep	airs/Replacement			1998 Editi	on		
6. Identification o	f Components Rep	aired or Replaced an	id Replacem	ent Componer	ats:		Renaired	ASME
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Ider	Other ntification	Year Built	Replaced, or Replacemen	Stamped (Yes or No)
Piping System	Bechtel	2"CC-5-2003	N/A	#21 Regen. He Pressurizer A	eat Exch. to #21 ux. Spray	1977	Repaired/Repi aced	No
Pipe	DuBose National Energy Services Inc.	400298 Ht #: 32789	N/A	Pipe, 2 in., So 376, Tp. 316	h. 160, ASME SA-	2000	Replacement	No
Nut	Mackson Inc.	408227 HL#: S44018	N/A	Nut, Heavy H ASME SA-19	iex, 7/8 in. X 9 TPI, 4 Gr. 2H	2002	Replacement	No
Alithread Rod	Nova Machine Products Corp.	402325 Ht.#: 69541	N/A	Rod, Allthrea ASME SA-19	d, 7/8 in. X 9 TPI, 3 Gr. B7	2000	Replacement	No
Coupling	Consolidated Power Supply	87523-GX Heat Code: EAA	N/A	Coupling, 2 in Socketweld, A F316	1. , 6000 Ib., SME SA-182, Gr.	1994	Replacement	No
Flange	DuBose National Energy Services Inc.	409374 Ht. Code: BHI	N/A	Flange, 2 In., 1 Large Tongue ASME SA-18	Sch 160, 1500 lb., , Socketweld, 2, Tp. F 316	2003	Replacement	No

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

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

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.

Certificate of Compliance We certify that the statements made in this report are correct and that this <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
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 <u>2-4-03</u> to <u>5-27-03</u> , 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 in Signature Commissions: <u>NB BZZG ANT, MDG 47</u> Inspector's Signature National Board, State, and Endorsements
Date: June 20, 2003

	Calvert Cliff	s Nuclear Pow	er Plant Ir	06/19/	2003		
1. Owner:	1. Owner:						
1650 Calvert	Cliffs Parkway;	Lusby, MD 2	0657	Sheet 1 of 2			
	((address)				,	
2 Plant	Calvert Clif	fs Nuclear Pow	ver Plant	Unit Two			
2. I Milli	(name)					
1650 Calvert	Cliffs Parkway;	Lusby, MD 2	0657	R&R No. 2002-2-03	9, MW(O No. 22002	00869
	(address)		(F	.О. по., jo	b no., etc.)	
2 W. 1 D. C.	Calvert	Cliffs Nuclear	Power Pla	nt Dept. Type Code Symi	ool Stam	p: <u>N/A</u>	
3. WORK Periorn	iea by:(name)		Authorization No	p.: <u>N/A</u>	2	
	· · · · ·			Exp Date: <u>N/A</u>			
1650 Calvert	Cliffs Parkway,	Lusby, MD 20	657	Section XI Class	:	ne	
 Identification (a) Applicable 	of System: Systen Construction Code a	n Number <u>064</u> and Class: ASM	System Na	ame: <u>Reactor Coolant S</u> ode Sect. III, 1968 Editio	System on, Win	n Iter 1968 Ad	d; Class
		A, C	Cases N-2,	N-10			
(b) Applicable	Sect XI Ed. for Rep	airs/Replacement		1998 Edit	ion		
6. Identification	of Components Rep	aired or Replaced a	nd Replacem	ent Components:			ASME
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacemen (Code Stamped Yes or No
Valve	Dresser Industrial Valve Co.	SN: BV-02950	N/A	Unit #2 Pressurizer Safety Relief Valve	1977	Repaired/Repl aced	Yes
Relief Valve	Dresser Industries Inc.	402625 SN: BN- 04375	N/A	Vaive, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in Model 31739A, only for RV 200 location.	2001	Replacement	Yes
7. Description of V	Work:						
This plan was f	or the replaceme	ent of 2-RV-200,	Unit-1 Pre	ssurizer Safety Valve.			

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

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** Repair/Replacement We certify that the statements made in this report are correct and that this 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 Charles H. Ballard Signed: Date: **Engineering Technician** 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 $\frac{1-8-03}{5-14-03}$ to $\frac{5-14-03}{5-14-03}$, 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. C Commissions: NBBZZG ANI, National Board, State, and Endorsements Inspector's Signature

2003

	· ·						
1. Owner:	Calvert Cliff	fs Nuclear Pow	er Plant, Ir	Date: 06/05/2	003	.	
1650 Calvert	Cliffs Parkway	Lusby, MD 2	20657	Sheet 1 of 2			
		(address)					
2 Plant.	Calvert Clif	fs Nuclear Pow	ver Plant	Unit: Two			
2. I lallt.		(name)	·····	Om	—		
1650 Calvert	Cliffs Parkway;	Lusby, MD 2	20657	R&R No. 2002-2-040	, MW	O No. 22002	00871
	((address)		(P.C). no., jol	b no., etc.)	
3. Work Perform	med by: Calvert	Cliffs Nuclear	Power Plai	nt Dept. Type Code Symbo	ol Stam	p: <u>N/A</u>	
		(name)		Authorization No.	: <u>N/A</u>	:	
1650 Calvert	Cliffs Parkway.	Lusby, MD 20	657	Exp Date: <u>IN/A</u> Section XI Class	0	200	
		address)					
4. Identification	of System: System	n Number 064	System Na	me: Reactor Coolant S	ystem	1	
			-,				
5. (a) Applicable	Construction Code	and Class: ASM	E B&PV C	ode Sect. III, 1968 Editior	n, Win	ter 1968 Ad	d; Class
		A, C	Cases N-2,	N-10		· · · · · · · · · · · · · · · · · · ·	
(b) Applicable	Sect XI Ed. for Rep	A, Co	Cases N-2,	N-10 1998 Editic	on		
(b) Applicable	Sect XI Ed. for Rep	A, Co	Cases N-2,	N-10 1998 Editio	on		
(b) Applicable6. Identification	Sect XI Ed. for Rep of Components Rep	A, Co airs/Replacement aired or Replaced a	Cases N-2, nd Replacement	N-10 1998 Edition ent Components:	on		ASME
(b) Applicable6. Identification	Sect XI Ed. for Rep of Components Rep Name of	A, Co airs/Replacement aired or Replaced a Manufacturers	nd Replacement	N-10 1998 Editionation 1998 Editionation Ent Components:	Ver	Repaired, Replaced or	ASME Code Stamped
 (b) Applicable 6. Identification Name of Componet 	Sect XI Ed. for Rep of Components Rep Name of Manufacturer	A, Co airs/Replacement aired or Replaced a Manufacturers Serial Number	Cases N-2, and Replacement National Board No.	N-10 1998 Editio ent Components: Other Identification	on Year Built	Repaired, Replaced, or Replacemen (ASME Code Stamped (Yes or No)
 (b) Applicable 6. Identification Name of Componet Valve 	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Dresser Industrial Valve Co.	A, Co airs/Replacement aired or Replaced a Manufacturers Serial Number SN: EM-07949	Cases N-2, and Replacement National Board No. N/A	N-10 1998 Edition ent Components: Other Identification Unit #2 Pressurizer Safety Relief Valve	Year Built 1977	Repaired, Replaced, or Replacemen (Repaired/Repi aced	ASME Code Stamped Yes or No) Yes
 (b) Applicable 6. Identification Name of Componet Valve Relief Valve 	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Dresser Industrial Valve Co. Dresser Industries Inc.	A, Co airs/Replacement aired or Replaced a Manufacturers Serial Number SN: EM-07949 402625 SN: BS- 03213	Cases N-2, and Replacement National Board No. N/A N/A	N-10 1998 Edition ent Components: Other Identification Unit #2 Pressurizer Safety Relief Valve Valve, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in. Model 31739A, only for RV 201 location.	Year Built 1977 2001	Repaired, Replaced, or Replacemen (Repaired/Repl aced Replacement	ASME Code Stamped Yes or No) Yes Yes
(b) Applicable 6. Identification Name of Componet Valve Relief Valve Disc	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Dresser Industrial Valve Co. Dresser Industries Inc.	A, Co airs/Replacement aired or Replaced a Manufacturers Serial Number SN: BM-07949 402625 SN: BS- 03213 95597-GX SN: ACM75	Cases N-2, and Replacement National Board No. N/A N/A N/A	N-10 1998 Editic ent Components: Other Identification Unit #2 Pressurizer Safety Relief Valve Valve, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in. Model 31739A, only for RV 201 location. Disc, Maxiflow Relief Valve, 2 1/2 In., Model 31739A, Dresser P/N 1840404N, ASME SB-637 Gr. 688	Year Built 1977 2001 1995	Repaired, Replaced, or Replacement Replacement Replacement Replacement	ASME Code Stamped Yes or No) Yes Yes Yes
 (b) Applicable 6. Identification Name of Componet Valve Relief Valve Disc 7. Description of 	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Dresser Industrial Valve Co. Dresser Industries Inc. Dresser Industries Inc.	A, Co airs/Replacement aired or Replaced a Manufacturers Serial Number SN: BM-07949 402625 SN: BS- 03213 95597-GX SN: ACM75	Cases N-2, and Replaceme National Board No. N/A N/A N/A	N-10 1998 Editic ent Components: Other Identification Unit #2 Pressurizer Safety Relief Valve Valve, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in. Model 31739A, only for RV 201 location. Disc, Maxiflow Relief Valve, 2 1/2 In., Model 31739A, Dresser P/N 1840404N, ASME SB-637 Gr. 688	Year Built 1977 2001 1995	Repaired, Replaced, or Replacement Replacement Replacement Replacement	ASME Code Stamped Yes or No) Yes Yes Yes
 (b) Applicable 6. Identification Name of Componet Valve Relief Valve Disc 7. Description of This plan was f 	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Dresser Industrial Valve Co. Dresser Industries Inc. Dresser Industries Inc.	A, Co airs/Replacement aired or Replaced a Manufacturers Serial Number SN: BM-07949 402625 SN: BS- 03213 95597-CX SN: ACM75	Cases N-2, and Replacement National Board No. N/A N/A N/A	N-10 1998 Editic ent Components: Other Identification Unit #2 Pressurizer Safety Relief Valve Valve, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in. Model 31739A, only for RV 201 location. Disc, Maxiflow Relief Valve, 2 1/2 In., Model 31739A, Dresser P/N 1840404N, ASME SB-637 Gr. 688 fety Valve, 2-RV-201.	Year Built 1977 2001 1995	Repaired, Replaced, or Replacement (Replacement Replacement Replacement	ASME Code Stamped Yes or No) Yes Yes Yes
 (b) Applicable 6. Identification Name of Componet Valve Relief Valve Disc 7. Description of This plan was for the second second	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Dresser Industrial Valve Co. Dresser Industries Inc. Dresser Industries Inc.	A, Co airs/Replacement aired or Replaced a Manufacturers Serial Number SN: EM-07949 402625 SN: BS- 03213 95597-GX SN: ACM75	Cases N-2, and Replacement National Board No. N/A N/A N/A	N-10 1998 Editic ent Components: Other Identification Unit #2 Pressurizer Safety Relief Valve Valve, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in. Model 31739A, only for RV 201 location. Disc, Maxiflow Relief Valve, 2 1/2 in., Model 31739A, Dresser P/N 1840404N, ASME SB-637 Gr. 688 fety Valve, 2-RV-201.	Year Built 1977 2001 1995	Repaired, Replaced, or Replacement Replacement Replacement Replacement	ASME Code Stamped Yes or No) Yes Yes Yes
 (b) Applicable 6. Identification Name of Componet Valve Relief Valve Disc 7. Description of This plan was f 8. Tests Conducte	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Dresser Industrial Valve Co. Dresser Industries Inc. Dresser Industries Inc. Work: for the replacement	A, Co airs/Replacement aired or Replaced a Manufacturers Serial Number SN: BM-07949 402625 SN: BS- 03213 95597-GX SN: ACM75 ent of Unit-2 Pree Pneumatic No	Cases N-2, and Replacement National Board No. N/A N/A N/A SSURIZER Sa minal Operating	N-10 1998 Editic ent Components: Other Identification Unit #2 Pressurizer Safety Relief Valve Valve, Consolidated Closed Bonnet Maxiflow Safety; 2-1/2 in. Model 31739A, only for RV 201 location. Disc, Maxiflow Relief Valve, 2 1/2 In., Model 31739A, Dresser P/N 1840404N, ASME SB-637 Gr. 688 fety Valve, 2-RV-201. Pressure: Inservice: Leakage:	Year Built 1977 2001 1995	Repaired, Replaced, or Replacement (Replacement Replacement Replacement	ASME Code Stamped Yes or No) Yes Yes Yes

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

9. Remarks:

Date:

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Charles H. Ballard Owner or Owner's Designee, Title Charles H. Ballard 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 <u>1-8-03</u> to <u>4-20-03</u> , 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.
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 Rawrence Commissions: NBBZZG ANI MDG/7 Inspector's Signature National Board, State, and Endorsements

2003

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

* ** *(*

E	Calvert Clif	fs Nuclear Pow	er Plant. Ir	nc.		105/200	3	
1. Owner:		(name)			Date: 00	100/200	<u> </u>	
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657		Sheet 1 of 2			
		(address)	······	<u></u>				
2 Plant.	Calvert Cli	ffs Nuclear Pow	er Plant		Linit T	wo		
2. I mill.		(name)	······					
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657	R&R M	No. 2003-2	2-030, N	1WO No. 2200	201257
		(address)	· · ·			(P.O. no	o., job no., etc.)	
2 Work Derfor	mad hun Calvert	Cliffs Nuclear I	Power Pla	nt Dept.	Type Code	Symbol S	tamp: <u>N/A</u>	
5. WOIK PEHOL	incu by	(name)			Authorizatio	on No.: 1	<u>N/A</u>	
					Exp Date:	<u>N/A</u>		
1650 Calvert	Cliffs Parkway	, Lusby, MD 200	657		Section XI (Class:	One	
4. Identification 5. (a) Applicable	of System: System:	and Class: ASM	System Na E B&PV C Cases 158	ode Sect. I 1. N-2. N-1	11, 1968 E	dition, \	winter 1968 A	dd; Class
(b) Applicable	Sect XI Ed. for Rep	airs/Replacement		, ,	1998 I	E d it lo n		
6. Identification	of Components Rep	- paired or Replaced a	nd Replacem	ent Componen	nts:	- · ·	Repaired	ASME Code
Name of	Name of	Manufacturers	National	(Other	· Y	ear Replaced, o	1 Stamped
Componet	Manufacturer	Serial Number	Board No.	Iden	tification	B	uilt Replacemen	r (Yes or No)
Valve	Dresser Industries	SN: BY11098	N/A	Unit #2 Pressu Power Operate	rizer Electron ed Safety Valv	natic 19 ve	77 Repaired/Re aced	pl No
Bellows Assembly	Dresser Industries Inc.	404221 Flange Ht#: 66271A	N/A	Bellows, Asser 1848505N, 5C 479, Tp. 316L 0022 Item 5	mbly (Pilot), P C Flange ASTN ., BGE Drwg #	N: 20 4 A- 12965-	001 Replacement	: No
7. Description of	Work:							
This plan was	for the rebuilding	of 2-ERV-404, t	he Pressu	rizer Electro	matic Pov	ver Ope	rated Relief Va	alve.
8. Tests Conduct	ed: Hydrostatic:	Pneumatic Nor	ninal Operating	Pressure: Ins		eakage: 🔽	Functional:	
	Pressure:	<u>2220</u> psi.	Test Ter	aperature: <u>c</u>	Def	<u>у</u> . Г		

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed:
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 <u>4-8-03</u> to <u>4-20-03</u> , 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.
Date: 13 2003

1. Owner: _	Calvert Cil	ffs Nuclear Pow	er Plant, I	nc.	Date:06/05/2	2003		
1650 Calver	t Cliffs Parkwa	(name) y: Lusby.MD 2	0657		Sheet 1 of 2			
		(address)		· · · · · · · · · · · · · · · · · · ·				
	Colvert Cl	iffe Nuclear Dev	or Diont		111			
2. Plant:	Galvert G	(nome)	er Flant		Unit: IWO			
1650 Calvert	t Cliffs Parkway	(inalic) /; Lusby, MD 2	0657	R&R	No. 2002-2-06	9a, MW	/O No. 2200)201333
		(address)	·····		(P.	O. no., jol	b no., etc.)	<u></u>
	Calver	t Cliffs Nuclear I	Power Pla	nt Dont	Type Code Symb	ol Stam	p: <u>N/A</u>	
3. Work Perform	med by: Ourver	(name)	ower ria	in Dept.	Authorization No	.: <u>N/A</u>		
		(name)			Exp Date: <u>N/A</u>			
1650 Calvert	Cliffs Parkway	r, Lusby, MD 200	657		Section XI Class:	0	ne	
		(address)						
4. Identification	of System: Syste	m Number 041	System N	ame: <u>Che</u>	emical Volume	Contro	ol	
5. (a) Applicable	e Construction Code	and Class: ASM Add;	E Draft Co Class Or	ode for Pu ne	mps & Valves,	1968 E	Edition, Mai	rch 1970
(b) Applicable	Sect XI Ed. for Re	pairs/Replacement			1998 Editi	on		
6. Identification	of Components Re	- paired or Replaced a	nd Replacem	ent Compon	ents:			ASME
Nome of	Nome of	Manufacturer	National		Other	Veez	Repaired, Replaced on	Code
Componet	Manufacturer	Serial Number	Board No.	Ide	entification	Built	Replacemen	(Yes or No)
Valve	Velan Engineering Co.	2-CKVCVC-186	N/A	#21 Regen. H RCS Cold Lo	Ieat Exch. to #22B eg Loop Check Valve	1977	Repaired/Repi aced	Yes
Check Valve	e Enertech Inc.	408934 SN: 11258	N/A	Valve, Nozz lb., Large G connections	le Check, 2 in., 1500 Groove Flanged end , Enertech, Tp. KRV	2002	Replacement	Yes
7. Description of	Work:						÷	
This plan was Check Valve. check valve.	for the replacen ES200100689-(nent of 2-CKVCV(000 allowed for th	C-186, #21 e replacen	Regen. H nent of the	eat Exch. to #22 existing type va	2B RCS Ive wit	S Cold Leg I h a new des	_oop ign
8. Tests Conduct	ed: Hydrostatic:	Pneumatic Nor	minal Operating	Pressure:	nservice: 🔲 Leakage:	🗹 Fun	ctional:	
	Pressure:	<u>2355</u> psi.	Test Ter	mperature:	<u>375</u> Deg. F			
					-			

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

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Owner or Owner's Designee, Title Charles H. Ballard 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 <u>Z-4-03</u> to <u>S-6-03</u> , 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 Rawlince Commissions: <u>NB8226 ANI MD643</u> Inspector's Signature National Board, State, and Endorsements
Date:200

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

		(name)					
1650 Calvert (Cliffs Parkway;	; Lusby, MD 20	0657	Sheet 1 of 2		•	
		(address)				•	
2. Plant:	Calvert Clif	ifs Nuclear Pow	er Plant	Unit: Two			
		(name)		······································	_		
1650 Calvert (Cliffs Parkway;	; Lusby, MD 20	657	R&R No. 2002-2-069	b, MV	VO No. 2200	201333
		(address)		(P.C). no., jol	5 no., etc.)	
2 Work Perform	d by: Calvert	Cliffs Nuclear F	ower Pla	nt Dept. Type Code Symbo	ol Stam	p: <u>N/A</u>	
5. WOIR FEIIOIIII	eu by((name)		Authorization No.	: <u>N/A</u>		
	Niffe Berlaueu	Luchy MD 206	57	Exp Date: <u>N/A</u>	-		
	Jins Parkway,	(LUSDY, ND 200		Section XI Class:	0	ne	
	Contractor Constant		O	Chamical Volume (Contr	ol	
4. Identification c	or System: System		System in	ine: Onenneal Volume (<u></u>		
					4 6 4 4		-
5. (a) Applicable (Construction Code	and Class: ASME	= B31./ 1	969 Edition, Summer 197		i; class on	e
5. (a) Applicable ((b) Applicable S	Construction Code Sect XI Ed. for Rep	and Class: ASME	2 831.7 1	1999 Edition, Summer 197 1998 Editio	n Add	i, class on	e
5. (a) Applicable ((b) Applicable S 5. Identification o	Construction Code Sect XI Ed. for Rep of Components Rep	and Class: ASME pairs/Replacement paired or Replaced an	d Replacem	1998 Edition, Summer 197 1998 Edition ent Components:	n Add		ASME
5. (a) Applicable ((b) Applicable S 5. Identification o	Construction Code Sect XI Ed. for Rep f Components Rep	and Class: ASME pairs/Replacement paired or Replaced an	d Replacem	1998 Edition, Summer 197 1998 Edition ent Components:	n Add	Repaired,	ASME Code
5. (a) Applicable ((b) Applicable S 5. Identification o Name of	Construction Code Sect XI Ed. for Rep of Components Rep Name of	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers	d Replacem	1999 Edition, Summer 197 1998 Edition ent Components: Other	Year	Repaired, Replaced, or	ASME Code Stamped
 (a) Applicable ((b) Applicable S Identification o Name of Componet 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number	ad Replacem National Board No.	1999 Edition, Summer 197 1998 Edition ent Components: Other Identification	Year Built	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No
 5. (a) Applicable ((b) Applicable S 5. Identification of Name of Componet 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number 2"CC-5-2004	ad Replacem National Board No. N/A	959 Edition, Summer 197 1998 Edition ent Components: Other Identification #21 Regen. Heat Exch. to #22B RCS Cold Leg Loop	Year Built 1977	Repaired, Replaced, or Replacement Repaired/Repl aced	ASME Code Stamped (Yes or No No
5. (a) Applicable ((b) Applicable S 5. Identification o Name of Componet Piping System Pipe	Construction Code : Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel DuBose National Energy Services Inc.	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number 2"CC-5-2004 400298 Ht #: 32789	ad Replacem National Board No. N/A N/A	1999 Edition, Summer 197 1998 Edition ent Components: Other Identification #21 Regen. Heat Exch. to #22B RCS Cold Leg Loop Pipe, 2 in., Sch. 160, ASME SA- 376, Tp. 316	Year Built 1977 2000	Repaired, Replaced, or Replacement Repaired/Repl aced Replacement	ASME Code Stamped (Yes or No No
5. (a) Applicable ((b) Applicable S 5. Identification o Name of Componet Piping System Pipe Nut	Construction Code : Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel DuBose National Energy Services Inc. Mackson Inc.	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number 2"CC-5-2004 400298 Ht #: 32789 408227 Ht.#: S44018	ad Replacem National Board No. N/A N/A N/A	1998 Edition, Summer 197 1998 Edition ent Components: Other Identification #21 Regen. Heat Exch. to #22B RCS Cold Leg Loop Pipe, 2 in., Sch. 160, ASME SA- 376, Tp. 316 Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H	Year Built 1977 2000 2002	Repaired, Replaced, or Replacement Replacement Replacement Replacement	ASME Code Stamped (Yes or No No No
5. (a) Applicable ((b) Applicable S 5. Identification o Name of Componet Piping System Pipe Nut Allthread Rod	Construction Code : Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel DuBose National Energy Services Inc. Mackson Inc. Nova Machine Products Corp.	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number 2"CC-5-2004 400298 Ht #: 32789 408227 Ht #: S44018 402325 Ht #: 69541	ad Replacem National Board No. N/A N/A N/A N/A	1998 Edition, Summer 197 1998 Edition ent Components: Other Identification #21 Regen. Heat Exch. to #22B RCS Cold Leg Loop Pipe, 2 in., Sch. 160, ASME SA- 376, Tp. 316 Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7	Year Built 1977 2000 2002 2000	Repaired, Replaced, or Replacement Replacement Replacement Replacement Replacement	ASME Code Stamped (Yes or No No No No
5. (a) Applicable ((b) Applicable S 5. Identification o Name of Componet Piping System Pipe Nut Allthread Rod Flange	Construction Code : Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel DuBose National Energy Services Inc. Mackson Inc. Nova Machine Products Corp. DuBose National Energy Services Inc.	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number 2"CC-5-2004 400298 Ht #: 32789 408227 Ht.#: S44018 402325 Ht.#: 69541 409374 Ht. Code: BHI & BHZ	ad Replacem National Board No. N/A N/A N/A N/A N/A	1998 Edition, Summer 197 1998 Edition, Summer 197 1998 Edition ent Components: Other Identification #21 Regen. Heat Exch. to #22B RCS Cold Leg Loop Pipe, 2 in., Sch. 160, ASME SA- 376, Tp. 316 Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7 Flange, 2 in., Sch 160, 1500 lb., Large Tongue, Weld Neck, ASME SA-182, Tp. F 316	Year Built 1977 2000 2002 2000 2003	Repaired, Replaced, or Replaced, or Replacement Replacement Replacement Replacement Replacement	e ASME Code Stamped (Yes or No No No No
5. (a) Applicable ((b) Applicable S 5. Identification o Name of Componet Piping System Pipe Nut Allthread Rod Flange Description of V	Construction Code : Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel DuBose National Energy Services Inc. Mackson Inc. Nova Machine Products Corp. DuBose National Energy Services Inc.	and Class: ASME pairs/Replacement paired or Replaced an Manufacturers Serial Number 2"CC-5-2004 400298 Ht #: 32789 408227 Ht #: S44018 402325 Ht #: 69541 409374 Ht. Code: BHI & BHZ	ad Replacem National Board No. N/A N/A N/A N/A N/A	1998 Edition, Summer 197 1998 Edition, Summer 197 1998 Edition ent Components: Other Identification #21 Regen. Heat Exch. to #22B RCS Cold Leg Loop Pipe, 2 in., Sch. 160, ASME SA- 376, Tp. 316 Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H Rod, Allthread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7 Flange, 2 in., Sch 160, 1500 lb., Large Tongue, Weld Neck, ASME SA-182, Tp. F 316	Year Built 1977 2000 2002 2000 2003	Repaired, Replaced, or Replaced, or Replacement aced Replacement Replacement Replacement Replacement	e ASME Code Stamped (Yes or No No No No

8.	Tests Conducted:	Hydrostatic:	Pneumati	c	Nominal Operating Pressure:	Inservice:	Leakage: 🔽	Functional:
		Pressure:	<u>2355</u>	psi.	Test Temperature:	<u>375</u>	Deg. F	

Valve.

9. Remarks:

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

Certificate of Compliance We certify that the statements made in this report are correct and that this <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Owner or Owner's Designee, Title Charles H. Ballard 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 <u>2-4-03</u> to <u>5-6-03</u> , 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 Rowerce Commissions: <u>NB8222GANI MD647</u> Inspector's Signature National Board, State, and Endorsements
Date: 2003

1. Owner:	Calvert Clif	fs Nuclear Pow	ver Plant, Ir	nc. Date	. 06/19/20	03		
1650 Calvert	Cliffs Parkway	; Lusby, MD	20657	Shee	at 1 of 2			
		(address)						•
2 Plant	Calvert Cli	ffs Nuclear Pov	ver Plant	T Init	Two			
2. I Mill.	<u> </u>	(name)	·	UM	···	-		
1650 Calvert	Cliffs Parkway	; Lusby, MD	20657	R&R No. :	2002-2-037,	MWO	O No. 22002	202486
		(address)			(P.O.	ло., joł	b no., etc.)	
2 Work Perform	and hy: Calver	Cliffs Nuclear	Power Plan	nt Dept. Type	e Code Symbol	Stam	p: <u>N/A</u>	
5. WOIR FEIIOIII	lied by	(name)	· · · · ·	Auth	orization No.:	<u>N/A</u>		
1650 Calvort	Cliffe Darbuay	Luchy MD 20	657	Exp	Date: <u>N/A</u>	.		
1050 Calvert	Gillis Farkway	(address)		Sect	ion XI Class:		NO	
4 Identification	of System System	m Number 061	System Na	me Contain	ment Sprav			
-7. 30010100000								
5.(a) Applicable	Construction Code	and Class: ASN	IE Draft Co	de for Pumps	& Valves. 1	968 E	Edition Mar	ch 1970
							adicion, mar	
		Add	; Class Two	0				
(b) Applicable	Sect XI Ed. for Rep	Add	; Class Two	0	1998 Editio	n		
(b) Applicable	Sect XI Ed. for Rej	Add	; Class Two	o ent Components:	1998 Editio	n		
(b) Applicable 6. Identification	Sect XI Ed. for Rep of Components Rep	Add pairs/Replacement paired or Replaced a	; Class Two	ent Components:	1998 Edition	n	Renaired	ASME
(b) Applicable6. IdentificationName of	Sect XI Ed. for Rep of Components Rep Name of	Add pairs/Replacement paired or Replaced a Manufacturers	; Class Two and Replacemon National	ent Components: Othe	1998 Editio	n Year	Repaired, Replaced, or	ASME Code Stamped
 (b) Applicable 6. Identification Name of Componet 	Sect XI Ed. for Rep of Components Rep Name of Manufacturer	Add pairs/Replacement paired or Replaced a Manufacturers Serial Number	; Class Two and Replacement National Board No.	ent Components: Othe Identifica	1998 Edition	n Year Built	Repaired, Replaced, or Replacemen (ASME Code Stamped (Yes or No)
 (b) Applicable 6. Identification Name of Componet Valve 	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Masonellan International Inc.	Add pairs/Replacement paired or Replaced a Manufacturers Serial Number SN: H-59104-1	; Class Two and Replacement National Board No. N/A	o ent Components: Othe: Identifica #21 Containment Sp Isolation Control Va	1998 Edition ation oray Header alve	n Year Built 1977	Repaired, Replaced, or Replacemen (Replared/Repl aced	ASME Code Stamped (Yes or No) No
 (b) Applicable 6. Identification Name of Componet Valve Valve Plug 	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Masonellan International Inc. Masonellan Dresser C/O Eastern Controls	Add pairs/Replacement paired or Replaced a Manufacturers Serial Number SN: H-59104-1 41449-GX SN: A12421-7	; Class Two and Replacement National Board No. N/A N/A	o ent Components: Othe: Identifics #21 Contaiament Sp Isolation Control Vi Plug, 8 in. Masonel ASTM A-479, Tp. 3 013439-010-1N3	1998 Edition ation aray Header alve lan Valve, 516, P/N:	Year Built 1977 1990	Repaired, Replaced, or Replacement Repaired/Repl aced Replacement	ASME Code Stamped (Yes or No) No No
 (b) Applicable 6. Identification of Name of Componet Valve Valve Plug 7. Description of Valve Plug 	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Masonellan International Inc. Masonellan Dresser C/O Eastern Controls Work:	Add pairs/Replacement paired or Replaced a Manufacturers Serial Number SN: H-59104-1 41449-GX SN: A12421-7	; Class Two and Replacemon National Board No. N/A N/A	o ent Components: Othe Identifica #21 Contaiument Sp Isolation Control Va Plug, 8 in. Masonel ASTM A-479, Tp. 3 013439-010-1N3	1998 Edition ation pray Header alve lan Valve, 516, P/N:	n Year Built 1977 1990	Repaired, Replaced, or Replacement Replacement Replacement	ASME Code Stamped (Yes or No) No
 (b) Applicable 6. Identification of Name of Componet Valve Valve Plug 7. Description of Valve Plug 	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Masonellan International Inc. Masonellan Dresser C/O Eastern Controls Work: or the rebuilding	Add pairs/Replacement paired or Replaced a Manufacturers Serial Number SN: H-59104-1 41449-GX SN: A12421-7	; Class Two and Replacement National Board No. N/A N/A N/A	o ent Components: Othe: Identifica #21 Containment Sp Isolation Control Va Plug, 8 in. Masonel ASTM A-479, Tp. 3 013439-010-1N3	1998 Edition ation pray Header alve lan Valve, 516, P/N:	n Year Built 1977 1990	Repaired, Replaced, or Replacement Replacement	ASME Code Stamped (Yes or No) No
 (b) Applicable : 6. Identification of Name of Componet Valve Valve Plug 7. Description of V This plan was for the second se	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Masonellan International Inc. Masonellan Dresser C/O Eastern Controls Work: or the rebuilding	Add pairs/Replacement paired or Replaced a Manufacturers Serial Number SN: H-59104-1 41449-GX SN: A12421-7	; Class Two and Replacem National Board No. N/A N/A #21 Contair	o ent Components: Othe: Identifica #21 Containment Sp Isolation Control Va Plug, 8 in. Masonel ASTM A-479, Tp. 3 013439-010-1N3	1998 Edition ration gray Header alve lan Valve, 516, P/N: eader Isolatio	Year Built 1977 1990	Repaired, Replaced, or Replacement Replacement Replacement	ASME Code Stamped (Yes or No) No
 (b) Applicable i 6. Identification of Name of Componet Valve Valve Plug 7. Description of This plan was for this plan was for the set of the s	Sect XI Ed. for Rep of Components Rep Name of Manufacturer Masonellan International Inc. Masonellan Dresser C/O Eastern Controls Work: or the rebuilding d: Hydrostatic:	Add pairs/Replacement paired or Replaced a Manufacturers Serial Number SN: H-59104-1 41449-GX SN: A12421-7 9 of 2-CV-4150, Pneumatic No	; Class Two and Replacement National Board No. N/A N/A #21 Contair ominal Operating	o ent Components: Othe: Identifica #21 Containment Sp Isolation Control Vi Plug, 8 in. Masonel ASTM A-479, Tp. 3 013439-010-1N3 nment Spray He Pressure: Inservice	1998 Edition r ation oray Header alve lan Valve, B16, P/N: eader Isolation :: Leakage: [n Year Built 1977 1990 on Va	Repaired, Replaced, or Replacement Replacement Replacement	ASME Code Stamped (Yes or No) No

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

9. Remarks:

<u>No Section XI Pre-Service NDE was performed in support of this activity.</u> 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** Repair/Replacement We certify that the statements made in this report are correct and that this 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 Charles H. Ballard Signed: Date: **Engineering Technician** 06/19/2003 's Designee, Title **Certificate of Inservice Inspection** I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors 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. aunce Commissions: NB 8226 ANI, MD647 National Board, State, and Endorsements Inspector's Signature 2003 20

1650 Calvert Cliffs Parkway; Lusby, MD 20657 (address) 2. Plant: Calvert Cliffs Nuclear Power Plant	Sheet 1 of 2		
2. Plant: Calvert Cliffs Nuclear Power Plant (address) (address) (address) (name)	Sheet 1 of 2		
(address) 2. Plant: Calvert Cliffs Nuclear Power Plant (name)	Unit: TWO		
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. 2	200203541
(address)	(P.O. 1	no., job no., etc.)	u
Calvert Cliffs Nuclear Power Plant Dent	Type Code Symbol	Stamp: <u>N/A</u>	
3. Work Performed by: (name)	Authorization No.:	<u>N/A</u>	
	Exp Date: <u>N/A</u>		
1650 Calvert Cliffs Parkway, Lusby, MD 20657	Section XI Class:	One	•
(address)	-		
4. Identification of System: System Number 041 System Name: Che	emical Volume Co	ontrol	
(b) Applicable Sect XI Ed. for Repairs/Replacement	1998 Editior	1	
6. Identification of Components Repaired or Replaced and Replacement Components	ents:		ASME
		Repaired	Code
Name of Manufacturers National	Other	Year Replaced	, or Stamped
Componet Manufacturer Serial Number Board No. Ide	entification 1	Built Replacen	aen (Yes or No)
Valve Velan Engineering 2-CKVCVC-187 N/A #21 Regen. H Co. RCS Cold Le	Heat Exch. to #21A 1 eg Loop Check Valve	977 Repaired/ aced	Repl Yes
		2002 Replacem	ient Yes
Check Vaive Enertech Inc. 408934 SN: 11261 N/A Vaive, Nozzi ib., Large G connections,	cle Check, 2 in., 1500 Froove Flanged end 5, Enertech, Tp. KRV		
Check Valve Enertech Inc. 408934 SN: 11261 N/A Valve, Nozzi ib., Large G connections,	tle Check, 2 in., 1500 Froove Flanged end , Enertech, Tp. KRV		

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

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

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 **Repair/Replacement** We certify that the statements made in this report are correct and that this 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 Charles H. Ballard Signed: Date: **Engineering Technician** 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.
 Main
 <th 1. 2.0. 2003

1. Owner:	Calvert Cliff	s Nuclear Powe	er Plant, Ir	Date: 06/18/2	003		
1650 Calvert (Cliffs Parkway:	Lusby. MD 20	0657	Sheet 1 of 2			
		(address)				-	
2 Plant:	Calvert Clif	fs Nuclear Pow	er Plant	Unit: Two			
	((name)			 		
1650 Calvert C	Cliffs Parkway;	Lusby, MD 20	0657	R&R No. 2003-2-003	ib, MV	VO No. 2200	203541
	(address)		(P.	O. no., joł	o no., etc.)	
) World Daufaura	Calvert	Cliffs Nuclear F	Power Plai	nt Dept. Type Code Symb	ol Starry	p: <u>N/A</u>	
). WOIK PERIOIIIR	eu by:(name)		Authorization No	: <u>N/A</u>		
				Exp Date: <u>N/A</u>			
1650 Calvert C	Jittis Parkway,	Lusby, MD 200	57	Section XI Class:	0	ne	
		9007755)					
Identification o	۱ f System · System	n Number 041	System No	me: Chemical Volume	Contro	ol	
4. Identification o	of System: System	n Number <u>041</u>	System Na	ame: <u>Chemical Volume</u>	Contro	ol	'
4. Identification o 5. (a) Applicable C (b) Applicable S	of System: System Construction Code a lect XI Ed. for Rep	and Class: ASMI airs/Replacement	System Na E B31.7 1	ume: <u>Chemical Volume</u> 969 Edition, Summer 197 1998 Edition	Contro 71 Add	ol I; Class One	 }
 4. Identification o 5. (a) Applicable C (b) Applicable S 5. Identification o 	of System: System Construction Code a Sect XI Ed. for Rep f Components Rep	and Class: <u>ASMI</u> airs/Replacement aired or Replaced ar	System Na E B31.7 1 ad Replacem	ame: <u>Chemical Volume</u> 969 Edition, Summer 197 1998 Edition ent Components:	Contro 71 Adc on	ol I; Class One Renaired	ASME
 4. Identification o 5. (a) Applicable C (b) Applicable S 5. Identification o Name of Componet 	of System: System Construction Code a fect XI Ed. for Rep f Components Rep Name of Manufacturer	and Class: <u>ASMI</u> airs/Replacement aired or Replaced ar Manufacturers Serial Number	System Na E B31.7 1 ad Replacement National Board No.	ame: <u>Chemical Volume</u> 969 Edition, Summer 197 1998 Edition ent Components: Other Identification	Contro 71 Add on Year Built	cl i; Class One Repaired, Replaced, or Replacemen (ASME Code Stamped Yes or No
 4. Identification o 5. (a) Applicable C (b) Applicable S 5. Identification o Name of Componet Piping System 	of System: System Construction Code a lect XI Ed. for Rep f Components Rep Name of Manufacturer Bechtel	an Number <u>041</u> and Class: <u>ASMI</u> airs/Replacement aired or Replaced an Manufacturers Serial Number 2"CC-5-2005	System Na E B31.7 1 ad Replacement National Board No. N/A	ame: <u>Chemical Volume</u> 969 Edition, Summer 197 1998 Edition ent Components: Other Identification #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop	Contro 71 Adc on Year Built 1977	ci class One Repaired, Replaced, or Replacemen (Repaired/Repl aced	ASME Code Stamped Yes or No No
 A. Identification of (a) Applicable C (b) Applicable S Identification of Name of Componet Piping System Nut	of System: System Construction Code a Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Mackson Inc.	an Number <u>041</u> and Class: <u>ASMI</u> airs/Replacement aired or Replaced an Manufacturers Serial Number 2"CC-5-2005 406783 Ht#S44018	System Na E B31.7 1 ad Replacement National Board No. N/A N/A	ame: <u>Chemical Volume</u> 969 Edition, Summer 197 1998 Edition ent Components: Other Identification #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop Nut, Heavy Hex, 7/8 In. X 9 TPI, ASME SA-194 Gr. 2H	Contro 71 Add on Year Built 1977 2002	ci Class One Repaired, Replaced, or Replacement (Repaired/Repl aced Replacement	ASME Code Stamped Yes or No No
 4. Identification o 5. (a) Applicable C (b) Applicable S 5. Identification o Name of Componet Piping System Nut Allthread Rod 	of System: System Construction Code a Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Mackson Inc. Nova Machine Products Corp.	and Class: <u>ASMI</u> and Class: <u>ASMI</u> airs/Replacement aired or Replaced ar Manufacturers Serial Number 2"CC-5-2005 406783 Ht.#S44018 402325 Ht.#: 69541	System Na E B31.7 1 ad Replacement National Board No. N/A N/A N/A	ame: <u>Chemical Volume</u> 969 Edition, Summer 197 1998 Edition ent Components: Other Identification #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H Rod, Alithread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7	Contro 71 Add on Year Built 1977 2002 2000	col i; Class One Repaired, Replaced, or Replacement (Repaired/Repl aced Replacement Replacement	ASME Code Stamped Yes or No No No
 4. Identification o 5. (a) Applicable C (b) Applicable S 5. Identification o Name of Componet Piping System Nut Allthread Rod Flange 	of System: System Construction Code a Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Mackson Inc. Nova Machine Products Corp. DuBose National Energy Services Inc.	and Class: <u>ASMI</u> and Class: <u>ASMI</u> airs/Replacement aired or Replaced ar Manufacturers Serial Number 2"CC-5-2005 406783 Ht#S44018 402325 Ht.#: 69541 409374 Ht. Code: BHI	System Na E B31.7 1 ad Replaceme National Board No. N/A N/A N/A N/A	ame: Chemical Volume 969 Edition, Summer 197 1998 Edition ent Components: Other Identification #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop Nut, Heavy Hex, 7/8 in. X 9 TPI, ASME SA-194 Gr. 2H Rod, Alithread, 7/8 in. X 9 TPI, ASME SA-193 Gr. B7 Flange, 2 in., Sch 160, 1500 lb., Large Tongue, Weld Neck, ASME SA-182, Tp. F 316	Contro 71 Add on Year Built 1977 2002 2000 2003	ci Class One Repaired, Replaced, or Replacement (Replacement Replacement Replacement Replacement	ASME Code Stamped Yes or No No No No

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

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

of 2-CKVCVC-187, #21 Regen. Heat Exch. to #21A RCS Cold Leg Loop Check Valve.

9. Remarks:

<u>A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy</u> 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 satisy 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.

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: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Charles H. Ballard Owner or Owner's Designee, Title Charles H. Ballard 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 <u>Z-4-03</u> to <u>Z-4-03</u> , 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.
Lobut Whanke Commissions: <u>NBBZZCANT</u> MD647 Inspector's Signature National Board, State, and Endorsements Date: <u>June Zo</u> 200 <u>3</u>

1. Owner:	Calvert Cliff	s Nuclear Powe	r Plant, In	c	002		
1650 Calvert C	liffs Parkway;	Lusby, MD 20	657	Sheet 1 of 3.			
	((address)					
2. Plant:	Calvert Clif	fs Nuclear Powe	er Plant	Unit: Two			
		(name)				×	
1650 Calvert C	liffs Parkway;	Lusby, MD 20	657	R&R No. 2002-2-043	, MWC) No. 22002	03549
	((address)		(P.C). no., job	no., etc.)	
3 Work Perform	d by Calvert	Cliffs Nuclear P	ower Plar	t Dept. Type Code Symbo	ol Stamp): <u>N/A</u>	
<i>5.</i> ••••••••••••••••••••••••••••••••••••	(d b):	(name)		Authorization No.	: <u>N/A</u>		
1650 Calvert C	liffs Parkway.	Lusby, MD 206	57	Exp Date: <u>N/A</u> Section XI Class:	т	vo	
		(address)				<u>, , , , , , , , , , , , , , , , , , , </u>	
4. Identification of	of System: System	n Number 041	System Na	me: Chemical Volume	Contro	<u> </u>	
				· · · · · · · · · · · · · · · · · · ·			
5.(a) Applicable (Construction Code	and Class: Comb	oustion Er	ngineering Spec 8067-48	7-403	For Recipro	ocating
		Charg	յուց բառդ				
(b) Applicable S	Sect XI Ed. for Rep	airs/Replacement _		1998 Editio	on		
6. Identification of	of Components Rep	aired or Replaced an	d Replacem	ent Components:			ASME
						Repaired,	Code
Name of	Name of	Manufacturers	National Board No.	Other	Year	Replaced, or	Stamped
		Bertai Rumber			Built	Replacemen	
Pump	Combustion Engineering	SN: 2037	N/A	No. 21 Charging Pump	1988	Repaired/Repl aced	No
Stud	ABB Combustion Engineering	13453-GX HL#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 HL#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
Rođ	Energy & Process	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, Alithread, 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 H1.# 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

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

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:	<u>2360</u> psi.	Test Temperature:	<u>120</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.

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.

Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Signed:	Certificate of Compliance We certify that the statements made in this report are correct and that this <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Signed:	Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
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 daile in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. MD 980 MD 980 Mational Board, State, and Endorsements National Board, State, and Endorsements	Signed: Charles H. Ballard Owner or Owner's Designee, Title Charles H. Ballard Date: 12/10/2002
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 fiable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. MD 980 MD 980 Inspectors Signature National Board, State, and Endorsements	Certificate of Inservice Inspection
Date: Cy Cy 200 J	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, concernin the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be hable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. MD 980 Inspector's Signature Date: $2/21$ 2003

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc.				Date:	Date:06/17/2003			
1650 Calvert Cliffs Parkway: Lusby, MD 20657				Sheet 1 of 2	Sheet 1 of 2			
<u></u>			• •					
2. Plant: Calvert Cliffs Nuclear Power Plant				Unit: Two	Unit: Two			
1650 Calvert	Cliffs Parkway;	Lusby, MD 2	20657	R&R No. 2002-2-06	6 6, M W	/O No. 2200	203695	
	((address)		(P	O. no., jot	o no., etc.)		
3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept.			nt Dept. Authorization No	Type Code Symbol Stamp: <u>N/A</u> Authorization No.: <u>N/A</u>				
1650 Calvert	1650 Calvert Cliffs Parkway, Lusby, MD 20657			Exp Date: <u>N/A</u> Section XI Class	Т	NO		
		(address)				<u> </u>		
4. Identification	of System: Syster	n Number _052_	System Na	me: Safety Injection				
5. (a) Applicable	Construction Code	and Class: ASM	E B31.7 1	969 Edition, Summer 19	71 Add	l; Class Two)	
(b) Applicable (Sect XI Ed. for Rep	airs/Replacement		1998 Editi	on			
6. Identification of	of Components Rep	aired or Replaced a	and Replacem	ent Components:		Renaired	ASME	
6. Identification of	of Components Rep Name of	aired or Replaced a Manufacturers	ind Replaceme National	ent Components: Other	Year	Repaired, Replaced, or	ASME Code Stamped	
6. Identification of Name of Componet	of Components Rep Name of Manufacturer	aired or Replaced a Manufacturers Serial Number	nd Replacem National Board No.	ent Components: Other Identification	Year Built	Repaired, Replaced, or Replacemen (ASME Code Stamped Yes or No)	
6. Identification of Name of Componet Pipe Support	of Components Rep Name of Manufacturer Bechtel	Manufacturers Serial Number 10"GC1-2002	nd Replaceme National Board No. N/A	ent Components: Other Identification #21 LPSI Pump Discharge Check Valve Pipe Support	Year Built 1977	Repaired, Replaced, or Replacemen (Repaired/Repl aced	ASME Code Stamped (Yes or No) No	
6. Identification of Name of Componet Pipe Support Strut, Sway	of Components Rep Name of Manufacturer Bechtel Anvil International Inc. (Grinnell Pipe Supports)	Manufacturers Serial Number 10"GC1-2002 409318	nd Replaceme National Board No. N/A N/A	ent Components: Other Identification #21 LPSI Pump Discharge Check Valve Pipe Support Strut, Sway, Grinnell Fig. 211N, Size 2, Dwg.13600-674, Item 9	Year Built 1977 2002	Repaired, Replaced, or Replacemen (Repaired/Repl aced Replacement	ASME Code Stamped Yes or No) No No	
 6. Identification of Name of Componet Pipe Support Strut, Sway 7. Description of Value 	of Components Rep Name of Manufacturer Bechtel Anvil International Inc. (Grinnell Pipe Supports)	Manufacturers Serial Number 10"GC1-2002 409318	nd Replaceme National Board No. N/A N/A	ent Components: Other Identification #21 LPSI Pump Discharge Check Valve Pipe Support Strut, Sway, Grinnell Fig. 211N, Size 2, Dwg.13600-674, Item 9	Year Built 1977 2002	Repaired, Replaced, or Replacemen (Repaired/Repl aced Replacement	ASME Code Stamped (Yes or No) No	
 6. Identification of Name of Componet Fipe Support Strut, Sway 7. Description of Vector of Vector	of Components Rep Name of Manufacturer Bechtei Anvil International Inc. (Grinnell Pipe Supports) Work: or the replaceme	Manufacturers Serial Number 10"GC1-2002 409318 ent of sway strut	nd Replaceme National Board No. N/A N/A	ent Components: Other Identification #21 LPSI Pump Discharge Check Valve Pipe Support Strut, Sway, Grinnell Fig. 211N, Size 2, Dwg.13600-674, Item 9	Year Built 1977 2002	Repaired, Replaced, or Replacemen (Repaired/Repl aced Replacement	ASME Code Stamped (Yes or No) No	

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

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FORM NIS-2 (Back)

9. Remarks:

<u>A Section XI VT-3 Visual Examination of the affected component support was performed prior to the system</u> 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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed:
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 <u>12-30-02</u> to <u>6-44-03</u> , 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.
Lobut Wawnee Commissions: <u>NB8226 ANI, MD647</u> Inspector's Signature Commissions: <u>NB8226 ANI, MD647</u> National Board, State, and Endorsements Date: <u>June 20, 2003</u>
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650 Calver
Plant:
650 Calver
Work Perfor
. WOIK FEIIOI
650 Calven
Identification
(b) Applicable
Identification
Name of Componet
Name of Componet Valve
Name of Componet Valve Nut
Name of Componet Valve Nut Rod
Name of Componet Valve Nut Rod Description of

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

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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

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	Certificate of Compliance We certify that the statements made in this report are correct and that this <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
	Signed:
	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
P	components described in this Owner's Report during the period <u>4-1-03</u> to <u>4-17-03</u> , 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.
	Pobul Quere Commissions: <u>JBB226 ANI, MD647</u> Inspector's Signature National Board, State, and Endorsements

1. Owner:		(name)	er Plant, Ir	1C.	Date: 06/18/2	003	:	
1650 Calvert (Cliffs Parkway;	Lusby, MD 2	0657	·····	Sheet 1 of 2			
		(address)	ĸ					
2. Plant:	Calvert Clif	fs Nuclear Powe (name)	er Plant		Unit: Two			
1650 Calvert (Cliffs Parkway;	Lusby, MD 20	0657	R&R	No. 2003-2-013	Bb, MV	VO No. 2200	301027
	((address)			(P.	O. no., jol	o no., etc.)	
2 World Dorform	dh Calvert	Cliffs Nuclear F	ower Pla	nt Dept.	Type Code Symbo	ol Stam	p: <u>N/A</u>	
5. WORK PERIOTIN	ea by:(name)			Authorization No.	.: <u>N/A</u>		
					Exp Date: <u>N/A</u>			
1650 Calvert C	Sims Parkway,	LUSDY, MD 200	001		Section XI Class:	T	WO	
4. Identification of	of System: System	n Number 041	System Na	ame: Ulit	sinical volume	Contro	01	
 Identification of (a) Applicable of (b) Applicable s Identification of Name of 	of System: System Construction Code a Sect XI Ed. for Rep of Components Rep Name of	n Number <u>041</u> and Class: <u>ASMI</u> airs/Replacement aired or Replaced ar Manufacturers	System Na E B31.7 1 ad Replacem National	ame: <u>Cite</u> 969 Editic ent Compon	on, Summer 197 1998 Edition ents: Other	71 Adc on Year	ci; Class Two Repaired, Replaced, or	ASME Code Stamped
 Identification of (a) Applicable of (b) Applicable of Identification of Name of Componet 	of System: System Construction Code a Sect XI Ed. for Rep of Components Rep Name of Manufacturer	n Number and Class: ASMI airs/Replacement aired or Replaced ar Manufacturers Serial Number	System Na E B31.7 1 ad Replacem National Board No.	ame: <u>Crit</u> 969 Editic ent Compon	on, Summer 197 1998 Editle ents: Other entification	71 Adc on Year Built	ci ci class Two Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No
 Identification of (a) Applicable ((b) Applicable S Identification of Name of Componet Piping System 	of System: System Construction Code a Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel	n Number041_ and Class: ASMI airs/Replacement aired or Replaced ar Manufacturers Serial Number 2" CC-7-2003	System Na E B31.7 1 ad Replacem National Board No. N/A	ame: <u>Chie</u> 969 Editic ent Compon Ida Charging Pu downstream	on, Summer 197 1998 Edition ents: Other entification imp discharge to CVs of Regen. HX	71 Adc on Year Built 1977	ci ci ci ci ci ci ci ci ci ci ci ci ci c	ASME Code Stamped (Yes or No No
 4. Identification of 5. (a) Applicable ((b) Applicable S 6. Identification of Name of Componet Piping System Pipe 	of System: System Construction Code a Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel DuBose National Energy Services Inc.	n Number041_ and Class: ASMI airs/Replacement aired or Replaced ar Manufacturers Serial Number 2" CC-7-2003 400298 Ht #: 32789	System Na E B31.7 1 ad Replacem National Board No. N/A N/A	ame: <u>Chie</u> 969 Editic ent Compon Ide Charging Pa downstream Pipe, 2 in., 8 376, Tp. 310	on, Summer 197 1998 Editio ents: Other entification imp discharge to CVs of Regen. HX Sch. 160, ASME SA-	Year Built 1977 2000	ci ci ci ci ci ci ci ci ci ci ci ci ci c	ASME Code Stamped (Yes or No No
 4. Identification of 5. (a) Applicable ((b) Applicable S 6. Identification of Name of Componet Piping System Pipe Nut 	of System: System Construction Code a Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel DuBose National Energy Services Inc. Mackson Inc.	n Number041_ and Class: ASMI airs/Replacement aired or Replaced ar Manufacturers Serial Number 2" CC-7-2003 400298 Ht #: 32789 400066 Heat Code: JKX	System Na E B31.7 1 ad Replacema National Board No. N/A N/A N/A	ame: <u>Chie</u> 969 Editic ent Compon Ide Charging Pu downstream Pipe, 2 in., 8 376, Tp. 316 Nut, Heavy ASME SA-1	on, Summer 197 1998 Edition ents: Other entification imp discharge to CVs of Regen. HX Sch. 160, ASME SA- 5 Hex, 7/8 in. X 9 TPI, 94 Gr. 2H	Year Built 1977 2000	ci d; Class Two Repaired, Replaced, or Replacement Replacement Replacement Replacement	ASME Code Stamped (Yes or No No No
 4. Identification of 5. (a) Applicable ((b) Applicable S 6. Identification of Name of Componet Piping System Pipe Nut Allthread Rod 	of System: System Construction Code a Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel DuBose National Energy Services Inc. Mackson Inc. DuBose National Energy Services Inc.	n Number041_ and Class: ASMI airs/Replacement aired or Replaced ar Manufacturers Serial Number 2" CC-7-2003 400298 Ht #: 32789 400066 Heat Code: JKX 48053LNP Heat #: S16975	System Na E B31.7 1 ad Replacem National Board No. N/A N/A N/A N/A	ame: <u>Chie</u> 969 Editic ent Compon Ida Charging Pu downstream Pipe, 2 in., 8 376, Tp. 316 Nut, Heavy ASME SA-1 Rod, Allthr ASME SA-1	on, Summer 197 1998 Edition ents: Other entification of Regen. HX Sch. 160, ASME SA- Sch. 160, ASME SCH. 160, ASME SA- Sch. 160, ASME SCH. 1	Year Year Built 1977 2000 1996	ol f; Class Two Repaired, Replaced, or Replacement Replacement Replacement Replacement Replacement	D ASME Code Stamped (Yes or No No No No

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

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This plan was for the piping, flanges, fasteners and hanger work needed to support 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:	<u>2350</u> psi.	Test Temperature:	<u>108</u>	Deg. F	

9. Remarks:

Date

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: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Charles H. Ballard Owner of Owner's Designee, Title 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 <u>3-8-03</u> to <u>5-2-03</u> , 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.
Lobat W Lawrence Commissions: NB8226 ANE, MD 647

Inspector's Signature

20, 2003

National Board, State, and Endorsements

1. Owner:	Calvert Clif	fs Nuclear Pow (name)	er Plant, Ir	nc	Date:	6/19/2	003	•	
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	20657		Sheet 1 of	2			
		(address)				-			
2. Plant:	Calvert Cli	ffs Nuclear Pow (name)	ver Plant	<u> </u>	Unit:	Two			
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657	R&R	No. 2003	8-2-018	a, MW	/O No. 2200	301119
		(address)			<u> </u>	(₽.С). no., jot	o no., etc.)	
	Calver	Cliffs Nuclear	Power Pla	nt Dent	· Type Cod	le Symbo	l Stam	p: <u>N/A</u>	
3. Work Perform	ned by: <u>Ourver</u>	(name)		n Dept.	Authoriza	tion No.:	: <u>N/A</u>		
		.			Exp Date	: <u>N/A</u>			
1650 Calvert	Cliffs Parkway	, Lusby, MD 20	657		Section X	I Class:	T\	NO	
(b) Applicable	Sect XI Ed. for Re	pairs/Replacement		1007 Edit	1998	B Editic	 n		
6. Identification	of Components Re	paired or Replaced a	nd Replacem	ent Compon	ents:	· .	· .	Renaired	ASME
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Ide	Other entification		Year Built	Replaced, or Replacemen (Stamped Yes or No
Piping System	Bechtel	34"EB-1-2005	N/A	#22 Steam G Discharge Pl	enerator Ma iping	in Steam	1977	Repaired/Repl aced	No
	· .								
7. Description of	Work:								
This plan was f Discharge Pipir FO-4009 and r	for the repairs to ng. It is also for elocate the narr	o the eroded area the cutting and le plate.	as on 2-EB rewelding c	1-2005, #	22 Steam to allow a	Generation Generation (Generation)	ator M to perf	lain Steam form repairs	on 2-
8. Tests Conducte	:d: Hydrostatic:	Pneumatic: No 851 psi.	ominal Operating Test Ter	Pressure: I	Inservice: [] <u>525</u> I	Leakage: Deg. F	Fur	actional:	

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

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Charles H. Ballard Owner or Owner's Designee, Title Charles H. Ballard 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 <u>3-19-03</u> to <u>4-23-03</u> , 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.
Date: Dute 20 2002
Daic. yeare co, 2002

				γ			
1. Owner:	Calvert Cli	ffs Nuclear Pow	er Plant, Inc	Date:	06/19/2003		
1650 Calvert	Cliffs Parkway	/; Lusby, MD 2	0657	Sheet 1	of 2	 . *	
2. Plant:	Calvert Cl	(address) Iffs Nuclear Pow (name)	ver Plant	Unit:	Two	· · ·	
1650 Calvert	Cliffs Parkway	/; Lusby, MD 2	0657	R&R No. 200)3-2-018b, M	WO No. 2200	301119
3. Work Perform	ned by: <u>Calver</u>	(address) t Cliffs Nuclear (name)	Power Plant	Dept. Type Co Authori	(P.O. no., ode Symbol Sta zation No.: <u>N/</u>	job no., e tc.) mp: <u>N/A</u> (<u>A</u>	
1650 Calvert	Cliffs Parkway	r, Lusby, MD 20	657	Section	XI Class:	Two	
 Identification (a) Applicable 	of System: Syste Construction Code	and Class: ASM	System Nan E B&PV Co	e: <u>Main Stean</u> de Sect. III, 197	n & SG Blow	vdown ass Two	
(b) Applicable	Sect XI Ed. for Re	pairs/Replacement		19	98 Edition	· · · · · · · · · · · · · · · · · · ·	
 Identification Name of Componet 	of Components Re Name of Manufacturer	paired or Replaced a Manufacturers Serial Number	nd Replacemen National Board No.	t Components: Other Identificatio	Yes n Bui	Repaired, ar Replaced, or lt Replacemen	ASME Code Stamped Yes or No)
Piping System	B.I.F. Inc.	2-FO-4009	N/A I	22 Steam Generator M Discharge Piping Flow 1	lain Steam 1977 Restrictor	Repaired/Repl aced	Yes
7. Description of This plan was f Piping Flow Re	Work: or the repairs/v strictor.	veld build-up on 2	2-FO-4009, #	22 Steam Gener	ator Main St	eam Discharg	9
8. Tests Conducte	d: Hydrostatic:	Pneumatic: No <u>N/A</u> psi.	ominal Operating Pr Test Temp	essure: Inservice: C verature: <u>N/A</u>	Leakage: 🗌 1 Deg. F	Functional: 🗌	

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

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Charles H. Ballard Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors 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 <u>3-19-03</u> to <u>4-23-03</u> , 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 Mawarce Commissions: <u>XB 8226 ANE MI) 647</u> Inspector's Signature National Board, State, and Endorsements
Date: June 20, 200 3

1. Uwner	Calvert Clif	fs Nuclear Powe	er Plant, Inc	2. Date:	06/19/2003		
		(name)					
1650 Calvert	Cliffs Parkway	r; Lusby, MD 2	0657	Sheet 1	of 2		
		(address)					
2. Plant:	Calvert Cli	ffs Nuclear Pow (name)	er Plant	Unit:	Two		
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657	R&R No. 200)3-2-018c, MV	VO No. 22003011	19
-		(address)			(P.O. no., jo	b no., etc.)	
3. Work Perform	ned by: Calver	t Cliffs Nuclear I (name)	Power Plan	t Dept. Type Co Authori	ode Symbol Stam zation No.: <u>N/A</u>	p: <u>N/A</u>	
1650 Calvert	Cliffs Parkway	, Lusby, MD 20	657	Section	XI Class:	wo	
		(address)				_	
4. Identification	of System: Syste	m Number <u>083</u>	System Nar	ne: <u>Main Stear</u>	n & SG Blowd	lown	
5.(a) Applicable	Construction Code	and Class: ASM	E B31.1.0	1967 Edition, 19	72 Add		
				4.0	98 Edition		
(b) Applicable	Sect XI Ed. for Re	pairs/Replacement _		19		·	
(b) Applicable6. Identification	Sect XI Ed. for Re of Components Re	pairs/Replacement - paired or Replaced a	nd Replacemen	at Components:		ASM	/E
(b) Applicable6. IdentificationName ofComponet	Sect XI Ed. for Re of Components Re Name of Manufacturer	pairs/Replacement paired or Replaced a Manufacturers Serial Number	nd Replacemen National Board No.	nt Components: Other Identificatio	Year n Built	ASN Repaired, Coo Replaced, or Starny Replacemen (Yes or	AE ie ped r No
 (b) Applicable 6. Identification Name of Componet Piping System 	Sect XI Ed. for Re of Components Re Name of Manufacturer Bechtel	pairs/Replacement paired or Replaced a Manufacturers Serial Number 34"EB-1-2004	nd Replacement National Board No. N/A	TS: Other Identificatio #21 Steam Generator M Discharge Piping	Year n Built Tain Steam 1977	ASN Repaired, Coo Replaced, or Starny Replacemen (Yes or Repaired/Repl 1 aced	AE le ped r No
 (b) Applicable 6. Identification Name of Componet Piping System 7. Description of 	Sect XI Ed. for Re of Components Re Name of Manufacturer Bechtel	pairs/Replacement paired or Replaced a Manufacturers Serial Number 34"EB-1-2004	nd Replacemen National Board No. N/A	at Components: Other Identificatio #21 Steam Generator M Discharge Piping	Year n Built Tain Steam 1977	ASN Repaired, Coo Replaced, or Starnj Replacemen (Yes or Repaired/Repl f aced	AE le ped r No No

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

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

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: <u>Charles H. Ballard</u> Owner or Owner's Designee, Title Charles H. Ballard Engineering Technician Date: <u>06/19/2003</u>
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 <u>3-/9-03</u> to <u>4-23-03</u> , 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.
Date: 20, 2003

1. Owner:	Calvert Clif	fs Nuclear Powe	er Plant, In	Date: 05/23/2	003		
1650 Calvert	Cliffs Parkway	(name) r: Lusby, MD 2(0657	Shoot 1 of 2		<i>x</i>	
		(address)		Sneet 1 of 2		÷.	
2. Plant:	Calvert Cli	ffs Nuclear Pow (name)	er Plant	Unit: Two	-		
1650 Calvert	Cliffs Parkway	; Lusby, MD 20	0657	R&R No. 2003-2-023	, MW	D No. 22003	01603
		(address)		(P.C). no., jol	o no., etc.)	
3. Work Perform	ned by: Calver	Cliffs Nuclear F	Power Plan	Type Code Symbo Authorization No.	ol Stamj : <u>N/A</u>	p: <u>N/A</u>	
		(name)		Exp Date: N/A			
1650 Calvert	Cliffs Parkway	, Lusby, MD 206	657	Section XI Class:	0	ne	
		(address)					
4. Identification	of System: System	m Number 064	System Na	me: Reactor Coolant S	ystem	l	
					_		
5. (a) Applicable	Construction Code	and Class: ASMI	E B31.7 1	969 Edition, Summer 197	'1 Add	I; Class On	8
5. (a) Applicable (b) Applicable	Construction Code Sect XI Ed. for Rep	and Class: ASMI	E B31.7 1	969 Edition, Summer 197 1998 Editio	n Add	I; Class On	8
 (a) Applicable (b) Applicable 6. Identification 	Construction Code Sect XI Ed. for Rep of Components Rep	and Class: ASMI pairs/Replacement paired or Replaced ar	E B31.7 19	969 Edition, Summer 197 1998 Edition ent Components:	n	I; Class On	ASME
 (a) Applicable (b) Applicable 6. Identification Name of Componet 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer	and Class: ASMI pairs/Replacement paired or Replaced an Manufacturers Serial Number	E B31.7 1 nd Replacement National Board No.	969 Edition, Summer 197 1998 Edition ent Components: Other Identification	Year Built	Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No
 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Piping System 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel	and Class: ASMI pairs/Replacement paired or Replaced an Manufacturers Serial Number 1" & under CC-9	E B31.7 19 ad Replaceme National Board No. N/A	969 Edition, Summer 197 1998 Edition ent Components: Other Identification Reactor Cooling Sys. Instrumentation	Year Built 1970	Repaired, Replaced, or Replacement Replacement Repaired/Repl aced	ASME Code Stamped (Yes or No
 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Piping System Tee 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Parker Hannifin Corp	and Class: ASMI pairs/Replacement paired or Replaced an Manufacturers Serial Number 1" & under CC-9 86944-GX Heat Code: 493H	E B31.7 19 ad Replaceme National Board No. N/A N/A	969 Edition, Summer 197 1998 Edition ent Components: Other Identification Reactor Cooling Sys. Instrumentation Tee, Union, 3/4 in., Parker Hannifin, P/N 12-8-8JBZ-SS, ASTM/ASME A/SA182 or A/SA479, Tp. 316	Year Built 1970	Repaired, Replaced, or Replacement Replacement Replacement	ASME Code Stamped (Yes or No No
 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Plping System Tee Plug 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Parker Hannifin Corp Parker Hannifin Corp	and Class: ASMI pairs/Replacement paired or Replaced an Manufacturers Serial Number 1" & under CC-9 86944-GX Heat Code: 493H 407857 Heat Code: CHMI	E B31.7 19 nd Replaceme National Board No. N/A N/A N/A	969 Edition, Summer 197 1998 Edition ent Components: Other Identification Reactor Cooling Sys. Instrumentation Tee, Union, 3/4 In., Parker Hannifin, P/N 12-8-8JBZ-SS, ASTM/ASME A/SA182 or A/SA479, Tp. 316 Piug, 1/2 In., Parker Hannifin P/N 8FNZ-SS, ASTM/ASME A/SA182 or A/SA479, Tp. 316,	1 Add on Year Built 1970 1993 2002	Repaired, Replaced, or Replacement Replacement Replacement Replacement	ASME Code Stamped (Yes or No No No
 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Plping System Tee Plug Description of 	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Parker Hannifin Corp Parker Hannifin Corp	and Class: ASMI pairs/Replacement paired or Replaced an Manufacturers Serial Number 1" & under CC-9 86944-GX Heat Code: 493H 407857 Heat Code: CHMI	E B31.7 19 ad Replaceme National Board No. N/A N/A N/A	969 Edition, Summer 197 1998 Edition ent Components: Other Identification Reactor Cooling Sys. Instrumentation Tee, Union, 3/4 in., Parker Hannifin, P/N 12-8-8JBZ-SS, ASTM/ASME A/SA182 or A/SA479, Tp. 316 Piug, 1/2 in., Parker Hannifin P/N 8FNZ-SS, ASTM/ASME A/SA182 or A/SA479, Tp. 316,	1 Add on Year Built 1970 1993 2002	i; Class On Repaired, Replaced, or Replacement Replacement Replacement	ASME Code Stamped (Yes or No No No
 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Piping System Tee Plug Description of This plan was for p	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Parker Hannifin Corp Parker Hannifin Corp	and Class: ASMI pairs/Replacement paired or Replaced an Manufacturers Serial Number 1" & under CC-9 86944-GX Heat Code: 493H 407857 Heat Code: CHMI	E B31.7 19 nd Replaceme National Board No. N/A N/A N/A N/A	969 Edition, Summer 197 1998 Edition Other Identification Reactor Cooling Sys. Instrumentation Tee, Union, 3/4 In., Parker Hannifin, P/N 12-8-8JBZ-SS, ASTM/ASME A/SA182 or A/SA479, Tp. 316 Plug, 1/2 In., Parker Hannifin P/N SFNZ-SS, ASTM/ASME A/SA182 or or A/SA479, Tp. 316 Plug on the	Year Built 1970 1993 2002	Repaired, Replaced, or Replacement Replacement Replacement Replacement Pressure sid	ASME Code Stamped (Yes or No No No
5. (a) Applicable (b) Applicable 6. Identification Name of Componet Plping System Tee Plug . Description of his plan was f DT-111B, Rea	Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Bechtel Parker Hannifin Corp Parker Hannifin Corp Work: for the work and actor Cooling Sy	and Class: ASMI pairs/Replacement paired or Replaced an Manufacturers Serial Number 1" & under CC-9 86944-GX Heat Code: 493H 407857 Heat Code: CHMI parts needed to n ystem Instrumenta Pneumatic Non	E B31.7 19 ad Replaceme National Board No. N/A N/A N/A N/A replace the ation. ninal Operating	969 Edition, Summer 197 1998 Edition Other Identification Reactor Cooling Sys. Instrumentation Tee, Union, 3/4 In., Parker Hannifin, P/N 12-8-8JBZ-SS, ASTM/ASME A/SA182 or A/SA479, Tp. 316 Plug, 1/2 In., Parker Hannifin P/N SFNZ-SS, ASTM/ASME A/SA182 or A/SA479, Tp. 316 Pressure: Inservice: Leakage:	Year Built 1970 1993 2002	Repaired, Replaced, on Replacement Replacement Replacement Replacement Pressure sid	ASME Code Stamped (Yes or No No No

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

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.					
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>					
Signed: Charles H. Ballard 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 <u>3-24-03</u> to <u>4-21-03</u> , 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 Commissions: NBBZZG NIT, MDG47					

Inspector's Signature

National Board, State, and Endorsements

Date: May U 27, 2003

				. `	<u></u>			
1. Owner:	Calvert Clif	fs Nuclear Powe	er Plant, Ir	Date	06/05/2	003		
1650 Calvert (Cliffs Parkway	Lusby. MD 2	0657	Shee	1 of 2			
		(address)						
2 Blants	Calvert Cli	ffs Nuclear Pow	er Plant	Tinit	Two	•		
2. Flam:		(name)		Om.				
1650 Calvert C	Cliffs Parkway	; Lusby, MD 2	0657	R&R No. 2	003-2-025	, MWO	D No. 22003	301643
<u></u>		(address)		• • • • • • • • • • • • • • • • •	(P.C). no., jol	o no., etc.)	<u> </u>
2 West Deferme	Calvert	Cliffs Nuclear F	Power Pla	nt Dept. Type	Code Symbo	l Stam	p: <u>N/A</u>	
3. WOIK Periorita	ea by:	(name)		Autho	orization No.	: <u>N/A</u>	i .	
			· · ·	Exp I	Date: <u>N/A</u>			
1650 Calvert C	Cliffs Parkway	, Lusby, MD 200	557	Section	on XI Class:		NO	
 Identification o (a) Applicable C 	of System: System	m Number052_ and Class:	System Na E B31.7 1	969 Edition, Su	mmer 197	1 Add	l; Class Tw	0
(b) Applicable S	ect XI Ed. for Rep	pairs/Replacement	<u></u>	1	998 Editic	n		
6. Identification o	f Components Rep	paired or Replaced an	nd Replacem	ent Components:				ASME
Name of	Name of	Manufacturers	National	Other		Vear	Repaired, Replaced or	Code
Componet	Manufacturer	Serial Number	Board No.	Identifica	tion	Built	Replacemen	(Yes or No)
Pipe Support	Bechtel	6"GC3-2001	N/A	HPSI Pump Suction Cooling HX Discharg	from SD ge	1977	Repaired/Repl aced	No
Bar	DuBose National Energy Services Inc.	400428 Ht.#: JB4309) N/A	Bar, Flat, 2 in. x 1/4 SA-36, Carbon Steel	in., ASME	2001	Replacement	No
7. Description of V	Vork: -							
This plan added	a shim plate a	nd fillet welds to	hanger R1	3 on line 6"GC3	-2001.			
8. Tests Conducted	: Hydrostatic:	Pneumatic: Nor	ninal Operating	Pressure: Inservice:	Leakage:	Fur	ectional:	
	Pressure:	<u>N/A</u> psi.	Test Ter	nperature: <u>N/A</u>	Deg. F			
NOTE: Supplemen	tal sheets in form	of lists, sketches, or a	drawings may	y be used, provided	(1) size is 8-	1/2 in. 3	x 11 in., (2)	

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

NOTE 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** Repair/Replacement We certify that the statements made in this report are correct and that this 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 Charles H. Ballard Signed: Date: Engineering Technician 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. Ince Commissions: NB8226 ANI MD64 National Board, State, and Endorsements Inspector's Signature 200 3

1. Owner:	Calvert Cli	ffs Nuclear Powe	er Plant, Ir	ıc.	Date:06/05/	2003		
1650 Calvert	Cliffs Parkway	/: Lusby. MD 2	0657		Sheet 1 of 2			
		(address)		<u> </u>				
2. Plant:	Calvert Cl	(name)	er Plant		Unit: Two			
1650 Calvert (Cliffs Parkway	: Lusby, MD 2	0657	R&R I	No. 2003-2-02	8, MW(O No. 22003	01748
		(address)			(7	.O. no., jol	b no., etc.)	
3. Work Perform	ed by: Calver	t Cliffs Nuclear F	Power Pla	nt Dept.	Type Code Symi Authorization N	ool Stam o.: <u>N/A</u>	p: <u>N/A</u>	
1650 Calvort (liffs Parkway		657	· ·.	Exp Date: <u>N/A</u>	. T .		
	Jinis Farkitaj	(address)		. <u></u>	Section AI Class	:	WO	
4. Identification of	of System: Syste	m Number 041	System Na	ame: Cher	<u>nical Volume</u>	Contro	01	
5. (a) Applicable (Construction Code	and Class: ASM	E B&PV C	ode Sect. I	li, 1995 Editic	on, 199	6 Add., Clas	s One
(b) Applicable S	Sect XI Ed. for Re	pairs/Replacement			1998 Edit	ion		
6. Identification o	of Components Re	paired or Replaced ar	nd Replacem	ent Componer	its:		Densind	ASME
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Iden	Other	Year Built	Replaced, or Replacement (Stamped Yes or No)
Valve	Enertech	SN: 11260	N/A	#21 Regen. He Check Valve (Isolation)	at Exchanger Inlet Containment	1977	Repaired/Repl aced	Yes
Check Valve	Enertech Inc.	408934 SN: 11263	N/A	Valve, Nozzle Ib., Large Gro connections, I	Check, 2 in., 1500 pove Flanged end Enertech, Tp. KRV	2002	Replacement	Yes
7. Description of V	Vork:							
This plan was fo	or the replacem	ent of 2-CKVCVC	C-184, #21	Regen. He	at Exchanger	Inlet Cl	neck Valve.	
8. Tests Conducted	: Hydrostatic:	Pneumatic Non 2350 psi.	ninal Operating Test Ten	Pressure: Ins	ervice: 🗌 Leakage 108 Deg. F	:: 🗹 🛛 Fur	ictional:	

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

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 Repair/Replacement We certify that the statements made in this report are correct and that this conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: N/A Expiration Date: N/A Charles H. Ballard Signed: Date: **Engineering Technician** 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. Commissions: NB 8226 ANE. MAG National Board, State, and Endorsements 200 =

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

1. Owner:	Calvert Cli	ffs Nuclear Powe	er Plant, Ir	nc. Date: _	06/05/20	03		
1650 Calvert	Cliffs Parkway	γ; Lusby, MD 2	0657	Sheet 1	of 2			
		(address)						
2. Plant:	Calvert Cl	iffs Nuclear Pow	er Plant	Unit:	Two			
		(name)						
1650 Calvert	Cliffs Parkway	r; Lusby, MD 2	0657	R&R No. 200)3-2-029,	MW	O No. 2200	301752
		(address)			(P.O.	no., jo	b no., etc.)	
3 Work Perform	ed by: Calver	t Cliffs Nuclear F	ower Pla	nt Dept. Type Co	ode Symbol	Stam	p: <u>N/A</u>	
J. WOLKE 0110111		(name)		Authori	zation No.:	<u>N/A</u>	1	
1650 Colvert	Cliffe Barlove	Luchy MD 200	- 57	Exp Dat	te: <u>N/A</u>	_		
1050 Calvert	CIIIIS Farkway	(address)		Section	XI Class: -	0	ne	
4. Identification	of System: Syste	m Number <u>041</u>	System Na	ame: Chemical V	/olume C	ontr	ol	
5. (a) Applicable	Construction Code	and Class: ASM	E B&PV C	ode Sect. III, 199	5 Edition,	199	6 Add., Cla	ss One
(b) Applicable S	Sect XI Ed. for Re	pairs/Replacement		199	8 Edition	11		
6. Identification of	of Components Re	paired or Replaced ar	nd Replacem	ent Components:				ASME
							Repaired,	Code
Name of	Name of	Manufacturers	National	Other	•	Year	Replaced, or	Stamped
Componet	Manufacturer	Serial Number	Board No.		n i	Built	Replacemen	(Yes or No)
Vaive	Enertech	SN: 11262	N/A	#21 Regen. Heat Exch. t RCS Cold Leg Loop CV Check Valve	o #21A 1 By Pass	1977	Repaired/Repl aced	Yes
Check Valve	Enertech Inc.	408934 SN: 11260	N/A	Valve, Nozzle Check, 2 lb., Large Groove Flan connections, Enertech,	in., 1500 ged end Tp. KRV	2002	Replacement	Yes
7. Description of V	Work:		• _					
This plan was fo CV By Pass Ch	or the replacen eck Valve.	nent of 2-CKVCVC	C-435, #21	Regen. Heat Excl	h. to #21A	RC	S Cold Leg I	_oop
8. Tests Conducted	1: Hydrostatic:	Pneumatic Non	ninal Operating	Pressure: Inservice:	Leakage: 🔽] Fun	octional:	
	Pressure:	<u>2355</u> psi.	Test Ten	nperature: <u>375</u>	Deg. F			

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 Repair/Replacement conforms to the We certify that the statements made in this report are correct and that this rules of the ASME Code, Section XI. Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: N/A Expiration Date: N/A Charles H. Ballard Signed: Date: Engineering Technician 06/05/2003 Owner or Owner's Designee **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. Commissions: NBB226 ANF National Board, State, and Endorsements 200 3

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc. (name) 1650 Calvert Cliffs Parkway; Lusby, MD 20657				Date:	05/22/20 1 of 2			
2. Plant Calvert Cliffs Nuclear Power Plant (name)				Unit:	Two	_		
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657	R&R No. S	G-2-001a,	MWC) No. S1996	01526
Relation of System: 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 & Two 1650 Calvert Cliffs Parkway, Lusby, MD 20657 (address) System Name: Steam Generator Replacement 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								
4. Identification 5. (a) Applicable	Cliffs Parkway, of System: Syster Construction Code	(address) m Number <u>64/83</u> and Class: ASM	System Na E B&PV Co ases: 133	Section Section Steam Ge ode Sect. III, 19 2-2, 1332-4, 135	n XI Class: enerator R 65 Edition 9-1	One eplac , Win	<u>& Tw</u> o ement ter 1967 Ad	d; Class
 1650 Calvert 4. Identification 5. (a) Applicable (b) Applicable 	Cliffs Parkway, of System: Syster Construction Code Sect XI Ed. for Rep	(address) m Number <u>64/83</u> and Class: ASM A CC pairs/Replacement	System Na E B&PV Co ases: 1332	Section Inne: <u>Steam Ge</u> ode Sect. III, 19 2-2, 1332-4, 135 1	n XI Class: nerator R 65 Edition 9-1 998 Editio	<u>One</u> eplac , Win	<u>& Tw</u> o ement ter 1967 Ad	d; Class
 1650 Calvert 4. Identification 5. (a) Applicable (b) Applicable 6. Identification Name of Componet 	Cliffs Parkway, of System: Syster Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer	A Lusby, MD 200 (address) an Number <u>64/83</u> and Class: ASM A CC pairs/Replacement paired or Replaced an Manufacturers Serial Number	System Na E B&PV Co ases: 133 nd Replacement National Board No.	Section Sec	n XI Class: nerator R 65 Edition 9-1 998 Editio	<u>One</u> eplac , Win n Year Built	<u>& Two</u> ement ter 1967 Ad Repaired, Replaced, or Replacemen	ASME Code Stamped (Yes or No)
 1650 Calvert 4. Identification 5. (a) Applicable (b) Applicable 6. Identification Name of Componet Pressure Vessel 	Cliffs Parkway, of System: System Construction Code Sect XI Ed. for Rep of Components Rep Name of Manufacturer Combustion Engineering	A Lusby, MD 200 (address) m Number <u>64/83</u> and Class: <u>ASM</u> <u>A CC</u> pairs/Replacement paired or Replaced an Manufacturers Serial Number <u>CE 67507</u>	System Na E B&PV Co ases: 133 nd Replacement National Board No. 20924	Section Inne: <u>Steam Ge</u> ode Sect. III, 19 2-2, 1332-4, 135 1 ent Components: Other Identificat #21 Steam Generator	n XI Class: enerator R 65 Edition 9-1 998 Editio	One deplace , Win n Year Built 1971	<u>& Two</u> ement ter 1967 Ad Repaired, Replaced, or Replacemen Repaired/Repl aced	ASME Code Stamped (Yes or No) Yes

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

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 🗌	eumatic Nominal Operating Pressure:		Leakage: 💋	Functional:
	Pressure:	<u>890</u> psi.	Test Temperature:	<u>532</u>	Deg. F	

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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	I
Certificate of Compliance We certify that the statements made in this report are correct and that this <u>Repair/Replacement</u> conforms rules of the ASME Code, Section XI.	to the
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>	
Signed: Setter Charles H. Ballard Owner or Owner's Designee, Title Charles H. Ballard Engineering Technician Date: 05/22/2	<u>2003</u>
Certificate of Inservice Inspection	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspec and the State of Maryland and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the	tors
components described in this Owner's Report during the period $9-2-02$ to $4-20-03$, and state best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in Owner's Report in accordance with the requirements of the ASME Code. Section XL	te to the this
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, co	ncerning
the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor h employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from connected with this inspection.	IS Or
Robert Warrence Commissions: NBBZZG ANE, MAGUY	
Inspector's Signature National Board, State, and Endorsements	
Date: <u>///ay_27,</u> 200 <u>3</u>	

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							
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							
4. Type: <u>7811E001 Rev. 6</u> (drawing no.)	See attached List #1 (mail spec. no.)	See List #1 (tansile strength)			(year built)	12	•
5. ASME Code, Section III, Division 1:	1989 (edition)	No Addenda (addenda date)		(class)	<u>_Sec</u>) attached (Code Case no.)	<u>List #2</u>
6. Fabricated in accordance with Const.	Spec. (Div. 2 only)	(nc.)	_Revision_	•D	ate		
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	Part or Appurtenance Serial Number	National Board No. In Numerical Order
	(1) 7811-03	198	(26)	
t	(2)		(27)	
1	(3)		(28)	
	(4)		(29)	
Ī	(5)		(30)	
ſ	(6)		(31)	
ſ	(7)		(32)	
ſ	(8)		(33)	
Ī	(9)		(34)	
ĺ	(10)		(35)	· · · ·
	(11)		(36)	
ſ	(12)		(37)	
ſ	(13)		(38)	
	(14)		(39)	
I	(15)		(40)	
ľ	(16)		(41)	1
Ī	(17)		(42)	
	(18)		(43)	•
I	(19)		(44)	
I	(20)		(45)	100
[(21)		(46)	2 3 M
	(22)		(47)	S. O.
	(23) .		(48)	R. M. W.
	(24)		(49)	X
	(25)		(50)	
1	10. Design pressure See List	#4 psi. Temp. See List #	4 °F. Hydro, test pressure Se	e List #4 st temp. *F

(when applicable)

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

Certificate Holder's Serial Nos	7811-03	through	
•			

CERTIFICATION OF DESIGN							
Design specifications certified by <u>E,S, Broczkowski Jr.</u> P.E. State <u>MD</u> Reg. no. <u>12424</u>							
(whan applicable) Design report [®] cartified by L_Vizi P.E. Prov. <u>Ont</u> Reg. no. <u>48244206</u> (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 Cartificate of Authorization No. N-2791 Expires January 23. 2004							
Date August 22, 02Name Babcock & Wilcox Canada Signed Signed							
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 have inspected these items described in this Data Report on Aug 22/0, 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 03/22/02 Signed							
/ / · · · · · · · · · · · · · · · · · ·							

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 National Board Nos. 198 through through _____

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3 (Manufactured for SGT Ltd. P.O. Box 1219, Lusby, Maryland 20657

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	, <mark></mark>	
	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	·		
) 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		<u></u>	
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_____

2. Manufactured for SGT Ltd. P.O. Box 1219, Lusby, Maryland 20657

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

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

•.7	Pg.	1	af	_2_

Same and

100 A 10

JQA-99-192 22-1

2. Manufactured for <u>Bebrock and Wilcox, SSI Coronation Blyd.</u> Carberine, <u>Mix SVI, Carada</u>

3. Location of Installation _____ Calvert Cliffs Nuclear Power Flant Unit 1 & 2 Calvert Country, Harvland_____

4.	Type:	1-508. 01 18	Min. 90ksi		1999
	(drawing no.)	terat". spec. no.l	(tensis strength)	(CRN)	lyear built
5.	ASME Code, Section III, Division 1: _	1989	No eddenda	t	
		(edidon)	(attienda data)	(c:sss)	(Cade Care no.)
δ.	Fabricated in accordance with Const.	Spec. (Div. 2 only)	Revision	·	Date 9780

Cladding thickness is min. 0.70" from base metal.

Cladding	sat	erials are	S71-5.4,	NS C1. E309L-16 + E308L-16 and SFA-5.9 ER309L + ER308L.
P.O. No.	1	CH3302064	•	JSR JOD NO. Y FNR-1306
Heat No.	1	98%75-1-1	.	JSW PC. No. 1 1

8. Nom. thickness (in.) ______ Min. design thickness (in.) _____ Ole. 10 (ft & in.) ______ Length overall (ft & in.) ______ I=7.72"

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part er Appurtanance Serial Number	National Board No. In Numerical Order	Part or Appurtenance . Serial Number	Nations! Board No. In Numerical Order
(1)1048	409	(26)	
(2)		(127)	
(3)		(28)	· · · · · · · · · · · · · · · · · · ·
[4]		(29)	ļ
(5)		(30)	
(6)		(31)	
		(32)	+·
(8)		(33)	
(9)		. [(34)	
10)		(35)	+
11) <u></u>		(35)	
2)		(37)	11000
13)		(38)	Intra Latin in the Sector
14)		(39)	Henderinger Hers P.D
151		(40)	
(6)		(41)	10.5 21 1522
17)		(42)	
18)		1431	00.10
18)		(44)	
20)		(45)	P FORGUNED
21)		(46)	
22)		(47)	·
23)		(48)	
24)		(49)	
25)		[150]	

*Supplemental information in the form of Ests, exerches, or drawings may be used provided (1) size is 8 % × 11, (2) information in items 2 and 3 on this Date 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 (200040) may be obtained from the Order Oept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

JQA-99-192 22-2 FORM N-2 (Back - Pg. 2 of ____) Cartificate Holder's Serial Nos. ____1043_ through CERTIFICATION OF DESIGN N/X X/X Design specifications cartified by P.E. State _ _ Reg. no. _ 8/8 when explicable N/1 Design report* certified by. P.E. State ____ CERTIFICATE OF COMPLIANCE Part We cartify that the statements made in this report are correct and that this (these). conforms to the rules of construction of the ASME Code, Section III, Division 1. N-2725 July 21, 2001 NPT Certificate of Authorization No. Expires. The Japan Steel Works, Ltd., Data Sept. 8,1999 Muroran Plant Nama Signed __ INFT 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 TLLINOIS 3.5.3.1. 5 1.Co. _ and amployed by ____ 99 and state that to the , have inspected these items described in this Data Report on Sultan kinc 8 HARTFORD CT of . best of my knowledge and befief, the Cartificate Holder has fabricated these parts or appurtenandes in accordance with the ASME Code. Section III, Division 1. Each part listed has been authorized for scamping 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 Date 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. NB # 10104 N, B, A Data Sep. 2, 1999 Signed ____ Authorized Inspec H. KISHIDA Rame plate kennoved for further manufacture Det 19/99 weel be farwarded to the centrum en the history docket CAMark, Prolety Reards apr 25/02 SWC INCOMING INSPECTION M the ANI COT 21 1999 -4.26.02 Q.C. (3

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CANVESTICLIERS NUCLEAR POWER PEANT UNITS JOANID 2 EEPLACEMENT STEAM GENERATOR ECODE SECTION WE OLASS TO LEAS ALC ADDENDA

FOR



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1. Owner: Calvert Cliffs Nuclear Pow	ver Plant, Inc.	Date: 05/22/20	003		
(name)	20057				
1650 Calvert Cliffs Parkway; Lusby, MD	20037	Sheet 1 of 2			•
(address)					
2. Plant: Calvert Cliffs Nuclear Po	wer Plant	Unit: <u>Two</u>			
(name)					
1650 Calvert Cliffs Parkway; Lusby, MD	20657 R&R	No. SG-2-001b,	MWO	No. S19960	1526
(address)		(P.C). no., job	no., etc.)	
Calvert Cliffs Nuclear	Power Plant Dept.	Type Code Symbo	l Stamp	»: <u>N/A</u>	
3. Work Performed by: (name)		Authorization No.:	<u>N/A</u>		
		Exp Date: <u>N/A</u>			
1650 Calvert Cliffs Parkway, Lusby, MD 2	0657	Section XI Class:	0	ne	
(address)					
4. Identification of System: System Number 064	System Name: Re	actor Coolant Sy	stem		
5. (a) Applicable Construction Code and Class: ASM (b) Applicable Sect XI Ed. for Repairs/Replacement	ME B31.7 1969 Editi	on, Summer 197 1998 Editio	1 Add on	; Class One	
6. Identification of Components Repaired or Replaced	and Replacement Compor	ents:			A SAÆ
6. Identification of Components Repaired or Replaced	and Replacement Compor	ents:		Renaired	ASME
 6. Identification of Components Repaired or Replaced Name of Name of Manufacturers 	and Replacement Compor National	other	Year	Repaired, Replaced, or	ASME Code Stamped
 6. Identification of Components Repaired or Replaced Name of Name of Manufacturers Componet Manufacturer Serial Number 	and Replacement Compor National Board No. Id	Other entification	Year Built	Repaired, Replaced, or Replacemen (Y	ASME Code Stamped 'es or No)
6. Identification of Components Repaired or Replaced Name of Name of Manufacturers Componet Manufacturer Serial Number Piping System Combustion 30" & 42" CC-1 Engineering Piping	and Replacement Compor National Board No. Id N/A Reactor Cod	Other entification	Year Built 1974	Repaired, Replaced, or S Replacemen (N Repaired/Repl aced	ASME Code Stamped Yes or No) Yes
 6. Identification of Components Repaired or Replaced Name of Name of Manufacturers Componet Manufacturer Serial Number Piping System Combustion 30" & 42" CC-1 Engineering Piping 7. Description of Work: 	and Replacement Compor National Board No. Id N/A Reactor Cod	Other entification	Year Built 1974	Repaired, Replaced, or Replacemen (Y Repaired/Repl aced	ASME Code Stamped Yes or No) Yes
 6. Identification of Components Repaired or Replaced Name of Name of Manufacturers Componet Manufacturer Serial Number Plping System Combustion 30" & 42" CC-1 Engineering Piping 7. Description of Work: This plan was for the Reactor Coolant Hot Leg Steam Generator. 	and Replacement Compor National Board No. Id N/A Reactor Com and Cold Leg Piping	ents: Other entification plant Piping work to support t	Year Built 1974	Repaired, Replaced, or S Replacemen (Y Repaired/Repl aced	ASME Code Stamped 'es or No) Yes

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

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. Addtional 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 rules of the ASME Code, Section XI.	<u>Repair/Replacement</u>	conforms to the					
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 1g 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 Way 27 2003 Commissions: <u>NBB 226 ANI, MD 64</u> Inspector's Signature National Board, State, and Endorsements

1 Owner:	Calvert Cliff	fs Nuclear Pow	er Plant, Ir	nc. Date 05/23/2	003		
1. Owner		(name)	<u> </u>	Dat		•	•
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	20657	Sheet 1 of 3		ین بر ۱۹ پوستان را	- .
			-	_		£7	
2. Plant:	Calvert Clif	(name)	ver Plant	Unit:	<u> </u>		
1650 Calvert	Cliffs Parkway	Lusby, MD 2	20657	R&R No. SG-2-001c,	, MWC	No. S1996	601526
		(address)		(P.0	Э. по., job	no., etc.)	
3. Work Perform	ned by: Calvert	Cliffs Nuclear	Power Pla	nt Dept. Type Code Symbo Authorization No.	ol Stamı : N/A	⊳: <u>N/A</u>	
		(name)		Exp Date: N/A	عمتها ا		
1650 Calvert	Cliffs Parkway,	Lusby, MD 20	657	Section XI Class:	T\	vo	
4. Identification	of System: Syster	(address) n Number <u>Var.</u>	System Na	ame: Main Steam, B/D, F	-/W, A	ux/Feed, &	Recir
5.(a) Applicable	Construction Code	and Class: ASM	E B31.1.0	1967 Edition, 1972 Add			
(b) Applicable	Sect XI Ed. for Rep	airs/Replacement		1998 Editio	on		
6. Identification	of Components Rep	aired or Replaced a	and Replacem	ent Components:		Pengirad	ASME
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Replaced, or Replacemen	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/Repl aced	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 ib., 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 ln. 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 Dcg., 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	N/A	Angle, 4 in. X 4 in. X 1/4 in.,	2002	Replacement	No

ASTM A-36

SA-194 Gr. 2H

Grinnell, Fig. 290N

N/A

N/A

Nut, Hex. Head, 1/2 in. X 13 TPI,

Eye Nut, Weldless, 1/2 in.,

Replacement

Replacement

No

No

2002

2002

Ht.#: J21300 ES199601526-210

ES199601526-210

Nut

Eye Nut

SGT-Blowdown

SGT-Blowdown

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

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 ib., Socketweid, ASTM A-132 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 Piug	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	Piug, 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, Grinneli 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:	<u>890</u> psi.	Test Temperature:	<u>532</u>	Deg. F	

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 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 $\underline{9-2-02}$ to $\underline{4-20-03}$, 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.

- Commissions: NB8226 ANE, MD64 Mence National Board, State, and Endorsements Inspector's Signature

2003

								_			
1. Owner:	. Owner: Calvert Cliffs Nuclear Power Plant, Inc.						Date:05/22/2003				
1650 Calvert	Cliffs Parkw	ay; Lusby, MD	Sheet 1 of 2	2.							
		(address)		 ·	•••••••		•				
2. Plant: Calvert Cliffs Nuclear Power Plant						Unit: Two					
1650 Calvert	Cliffs Parkwa	ay; Lusby, MD 2	20657	R&R	No. SG-2	-001d, MWC) No. S1996	601526			
	<u></u>	(address)				(P.O. no., job	no., etc.)				
3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept.					Type Code Symbol Stamp: <u>N/A</u> - Authorization No.: <u>N/A</u> Exp Date: N/A						
1650 Calvert	Cliffs Parkwa	ay, Lusby, MD 20	657		Section XI	Class: O	ne				
		(address)									
4. Identification	of System: Sys	stem Number 064	System Nam	e: Rea	actor Cool	ant System					
5.(a) Applicable	Construction Co	de and Class: ASM	IE B31.7 196	9 Editic	on, Summ	er 1971 Add	l; Class On	e			
(b) Applicable	Sect XI Ed. for I	Repairs/Replacement		<u> </u>	1998	Edition					
6. Identification	of Components I	Repaired or Replaced a	ind Replacement	Compon	ents:		Repaired,	ASME Code			
Name of	Name of	Manufacturers	National		Other	Year	Replaced, or	Stamped			

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

Serial Number Board No. Identification Built Replacemen (Yes or No) Componet Manufacturer Bechtel 1" & under CC-9 N/A **Reactor Cooling Sys.** 1970 Repaired/Repl **Piping System** No Instrumentation aced Tubing SGT-Reactor ES199601526-212 N/A Tubing, 3/4 In. X .065 Wall, 2002 Replacement No **Coolant Flow** Ht.#: V0049 ASME SA 213, Tp. 316 Indication **2D** Tubing SGT-Reactor ES199601526-212 N/A Clamp, Tube, 3/4 in., 2 2002 Replacement No Directional, Mark #400, Girard **Coolant Flow** MWO.#: 0200100026 Clamp Indication P/N 3/4T-SS-2D, A/SA 276 or 479, Tp. 304/316 ES199601526-212 Union, Tubing, 3/4 in. Swagelok, 2002 **Tubing Union** SGT-Reactor N/A Replacement No **Coolant Flow** P/N SS-12-TSW-6, ASTM/ASME Indication A/SA182 or A/SA479, Tp. 316 Pipe SGT-Reactor ES199601526-212 N/A Pipe, 1in. Sch 160, ASME SA-376, 2002 Replacement No **Coolant Flow** Ht#: 7708H TP-316 Indication ES199601526-212 2002 Fitting SGT-Reactor N/A Fitting, 1 in. X 3/4 in. Pipe/Tubing Replacement No **Coolant Flow** Heat Code: CHPC Connector, Parker, P/N 12-1-AW Indication

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:	nducted: Hydrostatic:		c 🗌	Nominal Operating Pressure:	Inservice: 🗋	Leakage: 🔲	Functional:
		Pressure:	<u>N/A</u>	psi.	Test Temperature:	<u>N/A</u>	Deg. F	

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: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>							
Signed:							
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 <u>9-2-02</u> to <u>4-20-03</u> , 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.							
Date: May 27 2003							

1. Owner:	nc. D	Date:05/22/2003								
1650 Calvert	SI	Sheet 1 of 2								
	(1	address)								
2. Plant:	U	nit: Two								
1650 Calvert Cliffs Parkway; Lusby, MD 20657 R&R No. SG-2-001e, MWO No. S199601526										
	(a	(ddress)			(P.	O. no., jot	no., etc.)			
3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept. Type Code Symbol Stamp: <u>N/A</u> (name) Authorization No.: <u>N/A</u>										
				E	Exp Date: <u>N/A</u>					
1650 Calvert	Cliffs Parkway,	Lusby, MD 20	657	Se	ction XI Class:	One a	<u>& Tw</u> o			
(address) 4. Identification of System: System Number 64/83 System Name: Steam Generator Replacement										
5.(a) Applicable	Construction Code a	nd Class: AISC	, Manual o	of Steel Cons	struction, 6t	h Ed. 1	963			
(b) Applicable Sect XI Ed. for Repairs/Replacement 1998 Edition										
6. Identification	of Components Repa	ired or Replaced a	nd Replacem	ent Components	:			ASME		
				_			Repaired,	Code		
Name of	Name of	Manufacturers	National	Ot	her	Year	Replaced, or	Stamped		
Componet	Manufacturer	Serial Number	Board No.	Identif	ication	Built	Replacemen	(Yes or No)		
Comp. Support	Combustion Engineering	N/A	N/A	#21 Steam Gener and Sliding Base	ator Snubber	1970	Repaired/Repl aced	No		
Stud	SGT-Steam Generator Supports	ES199601526-207 Ht.#: 14433	N/A	Stud, 2 1/4 in. X in., ASTM A-193	4 1/2 TPI X 14 3, Gr. B7	2002	Replacement	No		
Nut	SGT-Steam Generator Supports	ES199601526-207 Ht.#: 8991915	N/A	Nut, Heavy Hex, TPI, ASTM A-1	, 2 1/4 in. X 4 1/2 94 Gr. 7	2002	Replacement	No		
Washer	SGT-Steam Generator Supports	ES199601526-207	N/A	Washer, 2 1/4 in Hardened, ASM	., Circular E SA-193 Gr. B7	2002	Replacement	No		
Plate	SGT-Steam Generator Supports	ES199601526-207	N/A	Plate, Shim, AIS Finish, Heat-Tre	I 4140, 125 RMS at to RC-40	2002	Replacement	No		
Capscrew	SGT-Steam Generator Supports	ES199601526-207	N/A	Capscrew, Socka 13 TPI, UNC 3A per ASTM F-835	et Head, 1/2 in. X , Countersunk	2002	Replacement	No		

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

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:	<u>N/A</u> psi.	Test Temperature:	<u>N/A</u>	Deg. F	
9. Remarks:

<u>A Section XI VT-3 Visual Examination of the affected component support was performed prior to the system</u> 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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.					
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>					
Signed:					
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 <u>9-2-02</u> to <u>4-20-03</u> , 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 Rowrence Commissions: <u>NB8226ANT, MD647</u> Inspector's Signature National Board, State, and Endorsements					
Date: May 27, 2003					

As Required Required by the Flovisions of the Asivic Code Section /	As Required Req	uired by the Pro	ovisions of the <i>i</i>	ASME Code Section X
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5. (a) Ar (b) Ap 6. Ident Na	pplicable (pplicable s ification of	Construction Code Sect XI Ed. for Rep of Components Rep Name of	and Class: ASM ACC pairs/Replacement paired or Replaced an Manufacturers	E B&PV C cases: 133 nd Replacem National	ode Sect. III, 1965 Editio 2-2, 1332-4, 1359-1 1998 Edit ent Components: Other	on, Win ion Year	nter 1967 Ad Repaired, Replaced, or	d; Class ASME Code Stamped
5. (a) Ar (b) Ap	plicable (Construction Code	and Class: ASM A CC pairs/Replacement	E B&PV C ases: 133	ode Sect. III, 1965 Editio 2-2, 1332-4, 1359-1 1998 Edit	on, Win ion	iter 1967 Ad	d; Class
5. (a) Ar	oplicable (Construction Code	and Class: ASM	E B&PV C ases: 133	ode Sect. III, 1965 Editio 2-2, 1332-4, 1359-1	on, Win	iter 1967 Ad	d; Class
4. Ident	ification	of System: System	(address) m Number 64/83	System Na	me Steam Generator	Replac	ement	
1650 C	alvert (Cliffs Parkway,	Lusby, MD 20	657	Section XI Class	One	<u>& Tw</u> o	
3. Worl	k Perform	ed by: Calvert	Cliffs Nuclear I (name)	Power Pla	nt Dept. Authorization N	o.: <u>N/A</u>	p: <u>N/A</u>	
			(address)		() () ()	P.O. no., jol	b no., etc.)	
1650 C	Calvert	Cliffs Parkway	; Lusby, MD 2	0657	R&R No. SG-2-002	a, MWC) No. S1996	01526
2. Plan	t:	Calvert Clif	ffs Nuclear Pow	er Plant	Unit: Two			
<u> </u>			(address)				.	
1650 0	Calvert	Cliffs Parkway	; Lusby, MD 2	0657	Sheet 1 of 2			
		······	(name)	er Flant, II	Date: Date:	2003		

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:	<u>890</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.

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Charles H. Ballard 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 <u>9-2-02</u> to <u>4-20-03</u> , 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.
Lobut What and and Commissions: NB8226 ANT, MD647 Inspector's Signature National Board, State, and Endorsements

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

1. Manufactured and certified by Ba	abcock & Wilcox Canat	da, 581 Coronatio	n Boulevard,	Cambrid	ge, Ontario N	11R 5V3
	fuque suc s	iddress of NP I Certilicate M	cider)			
2. Manufactured for SGT Ltd. P.O.	Box 1219, Lusby, Man	land 20657				• • •
	(กลกะ	and address of Purchaser)				
3. Location of Installation Calvert C	liffs Nuclear Power Pla	Int (CCNPP) Units (name and address)	1&2, Lusby,	Maryland	20657-4702	· · · · · · · · · · · · · · · · · · ·
4. Type: 7811E001 Rev. 6 (drawing no.)	See attached List #1	See List #1 (tensile strength)	(CRN)		2002 (year built)	<u> </u>
5. ASME Code, Section III, Division 1:	1989 (edition)	No Addenda (addenda date)		1 · (class)	See a	attached List #2
6. Fabricated in accordance with Const	Spec. (Div. 2 only)	(no.)	_ Revision_	<u> </u>	Date	
7. Remarks: Secondary side hydr	otest has not been per	formed. Post-hyd	rotest final N	IDE has n	ot been perfo	med on
secondary side. Previous N-2 for	m for primary head (Ma	anufactured by Th	ie Japan Ste	el Works I	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 (it & in.) See List #3 Length overall (it & in.) 39'-8 7/16" 9. When applicable, Cartificate Holders' Data Reports are attached for each item of this report:

1

7

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 7811-04	199	(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)	-WHE?
(19)		(44)	21501
(20)		(45)	, <u>"</u>
(21)		(45)	.too M
(22)	}	(47)	Ju sh
(23)		(48)	<u> </u>
(24)		(49)	
(25)		(50)	
10. Design pressure Sec	List #4 psi, Temp. See List #	#4 *F. Hydro. test pressure Se	e List #4 et temp. *F

(when applicable)

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Pg.1 of 4

FORM N-2 (Back - Pg.	t of				
Cartificate Holder's Serial Nos. 78	1-04 through -				
CERTIFICATION OF D	esign				
Design specifications certified by <u>E.S. Broczkowski Jr.</u> P.E. Sta	MDReg. no12424				
Dasign report* certified by <u>L Vizi</u> P.E. Prov. <u>Ont</u>	λag. no. <u>48244208</u>				
CERTIFICATE OF COM	LIANCE				
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 Ex	ires January 23, 2004				
Date <u>August 8 02</u> Name <u>Babcock & Wilcox Canada</u> Signe	d				
CERTIFICATE OF INSF	ECTION				
I, the undersigned, holding a valid commission issued by the National Board of Bo	ler and Pressure Vessel Inspectors and the State or Province				
of Ontarlo and employed by Technical Standards and	Safaty Authority				
of <u>Ontario</u> have inspected these items described in this Data Ro	port on $Aug 9/02$ and state that to				
the best of my knowledge and bellef, the Certificate Holder has fabricated these p	rts 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 warra	ity, expressed or implied, concerning the equipment				
described in this Data Report. Furthermore, neither the inspector nor his employe	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 Commissions NB [Com	869ABNS 450NT				

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

Certificate Holder's Serial Nos. 7811-04 through _____ National Board Nos. 199 through ____ Page 3 of 4

Manufactured and certified by <u>Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3</u> Manufactured for <u>SGT Ltd. P.O. Box 1219, Lusby, Maryland 20657</u> S. Location of Installation <u>CCNPP Units 1&2, Lusby, Maryland 20657-4702</u>

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	·····	<u> </u>	
	2142-1			
	2143-1			
	N-401-1	••••••••••••••••••••••••••••••••••••••		
	N-416-1			

List #3:

	Nominal Thickness	Min. Design Thickness	Inner Diameter
Primary Head	70	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	6.125"	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 <u>Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3</u> 2. Manufactured for <u>SGT Ltd. P.O. Box 1219, Lusby, Marviand 20657</u>

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

	FORM N-	2 CERTIFICATE HO NUCLEAR PART	DLDERS' DATA REPORT	r for identica Ces+	L
	' As I	Required by the Prov	isions of the ASME Cod	e, Section III	
		Not to Exce	ed One Day's Production	J	Fg. 1 of _2
. Manufactured	and certified by Th	e Japan Steel Norks	, Ltd., Muroran Plant/4-	Chatsu-machi, Mus	coran, Hokkaido,051-
			Iname and address of NPT C	erolicate Holderi	Japa
. Manufactured	for Babcock & Wi	lcox.581 Coronation	Blvd. Cambridge. Onter	10 MTR SV3. CADA	eda
			thatte and address of Furchas	11	
. Location of in	stallation <u>Calvert</u>	Cliffs Nuclear Pow	er Plant Unit 1 & 2 Cal (name and address)	vert Country, Mai	cyland
h79 /	100141 Days 0	68-609 01 3-	. Kin Advel		
. Type:	1221M'- IKEA	SA-500, CI. 32	AID. YUKSI		1999
. Type:	(drawing no.)	(mar'l. spec. ec.)	(tensile strength)	(CRINI	(yes: built)
ASME Code	Grawing no.)	Inat'l. spec. ac.)	(tensile strength) No Eddenda	ICRNI 1	(year built)
. Type:NI	Grawing no.) Grawing no.) Section III, Division 1:	I989	tensile strength) No Eddenda (addenda date)	(CRN) 1 (Class)	[999 [yes/ buil] (Code Case no.)
. Type:	Erson HI, Division 1: accordance with Cone	Inst', spec. ec.) Inst', spec. ec.) Inst', spec. ec.) ist. Spec. (Div. 2 only)	Rin: SOKSI (tentile strength) No Eddenda (addenda date) 	(CRN) 1 (class)	(Code Case no.)
Type: ASME Code, : Fabricated in : Barriet Code, :	Ersonw, they and derwing no.) Section Hi, Division 1: accordance with Cons Sydrostatic test :	Inst. spec. ec.) 1989 ist. Spec. (Div. 2 only) ist tot performed in	Rin. SUKSI (tensile strangth) No Eddenda (addenda date) 	iCRNi 1 kciassi	(Code Case no.)
- Type: . ASME Code, : . Fabricated in : . Remarks: C	Grawing no.) Section Hi, Division 1: accordance with Cons lydrostatic test : ladding.thicknes: ladding material	Inst. spec. ac.) 1989 ist. Spec. (Div. 2 only) 1s hot performed in s is min. 0.20" from s are SFA-5.4, ARS (Rin. SOKS1 (tensile strength) No Eddenda (addenda date) 	iCRNI 1 klass) Ltd. and SFA-5.9 ER30	(Code Case no.) . Date
- Type:	Mrawing no.) Section Hi, Division 1: accordance with Cons lydrostatic test : ladding./thicknes: ladding material: 7.0. No. 1 CM3	Is not performed in sis marks and a state of the second state of t	All. SURSI (tendle strength) No Eddenda (addenda date) 	(CRN) 1 kiass) Ltd. and SFA-5.9 ER30 FN8-4306	(Code Case no.) . Date Date

JOA -99-233

22-1

8. Nom, thickness (in.) 7-1/4" Min, design thickness (in.) 7.00" Dia. 10 (ft & in.) 151.37" Length overall (ft & in.) 5'-7.72" 9. When applicable, Certificate Holdars' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenence Serial Number	National Eoard No. In Numerical Order
1049 .	412	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	EWC
(6)		(31)	UNITE INSPECTION
(7)		(32)	
(8)		(33)	100 A 1000
(9)		(34)	
10)		(35)	+
11}		(36)	
12)		(37)	Proviniuan
131		. (38)	
14)		(39)	
15)		(40)	
161		(41)	
17)		(42)	
181		(43)	
19)		(44)	
201		(45)	
21)		(46)	
221		(47)	
231		(48)	
241		(49)	· ·
27)		(50)	
,47)		1 ································	

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% × 11, (2) information in items 2 and 3 on this Data Report is included on each sheat, (3) each sheat is numbered and the number of sheats is recorded at the top of this form. This form IFAAALAS may be abariand from the Autor Bare Aprile 39 Law Adver B. sand Private as a anong agon

(12/68)

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		AQL	-99-233	22-
	FORM N-2 (Back – Pg. 2 of <u>2</u>)			
•	Cartificate Holder's Serial A	104	throu	gh
	CERTIFICATION OF DESIGN			
Design specifications cartified by .	SI/A twitten appricables	P.E. State	<u>N/A</u> R	sg. no. <u>N/A</u>
Design report* certified by	N/A Iwhen applicable)	P.E. State	<u>N/A</u> R	eg. no. <u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>
	CERTIFICATE OF COMPLIANCE			
We cardly that the statements ma conforms to the rules of construct	de in this report are correct and that this (these) ion of the ASME Code, Section III, Division 1.	Part		
NPT Certificate of Authorization N	o N-2725	July	21, 2001	····
Deve Sept-27,1999 Name	The Japan Steel Works, Ltd Muroran Plant	10	H	•
DataName .	INFT Certificate Holderi	18	cholized represent	Litive)
· ·		\	•	
Ill, Division 1. Each part listed has By signing this certificate, neither in this Date Report. Furthermore, r loss of any kind arising from or cou	been authorized for stamping on the date shown above. the inspector nor his employer makes any warranty, express raither the inspector nor his employer shall be liable in any m innected with this inspection.	ed or implied, co anner for any par	ncerning the sonal injury of	equipment descri Property damag
Data Seat. 27. 1919 Signed	A chile Commis	isiona	E#10145 A.	x.s. B
	Authorized Inspector	(Nac'l. 8d. lio	ci, endersemental	and state or prov. and
Home Plat	E removed for furth	er man	afse	lur
Jan 6/00 0	vill be farwarded	INC	BW Coming In	C SPECTION
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ape =	25/02 '			
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MIRE ANI 4.26.02

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w/o 808991 PTC 7811NG4733 ITEM 5195496 IONALIBOARD THE JAPAN STEED WORKS MURORANNEPLANT (NAME OF CERTIFICATE HOLDER) FICATE HOLDER S SERIA All. 00/01/06. Removed Fee Joke Leeping.



1. Owner: Calvert Cliffs Nuclear Power Plant, Inc.					Date: 05/22/2003				
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657		Sheet 1	of 2			
		(address)							
2. Plant:	Calvert Cl	(name)	er Plant		Unit: _	Two	-		
1650 Calvert	Cliffs Parkway	/; Lusby, MD 2	0657	R&R	No. SG	i-2-002b,	MWC) No. S1996	01526
		(address)				(P.O	. no., jot	o no., etc.)	
3. Work Perform	ed by: Calver	t Cliffs Nuclear (name)	Power Plai	nt Dept.	Type Co Authori	ode Symbo zation No.:	l Stamj <u>N/A</u>	p: <u>N/A</u>	
1650 Calvert	Cliffs Parkway	, Lusby, MD 20	657		Exp Da	XI Class:	0	ne	
4. Identification	of System: Syste	(address) em Number <u>064</u>	System Na	me: <u>Rea</u>	ictor Co	polant Sy	<u>stem</u>		
(b) Applicable	Sect XI Ed. for Re	pairs/Replacement			19	98 Editio	n		
6. Identification	of Components Re	paired or Replaced a	nd Replacem	ent Compone	ents:			Repaired.	ASME Code
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Ide	Other entificatio	n	Year Built	Replaced, or Replacemen (Stamped Yes or No
Piping System	Combustion Engineering	30" & 42" CC-1 Piping	N/A	Reactor Cool	lant Piping		1974	Repaired/Repl aced	Yes
. Description of '	Work:								
		O I - - I I - - - - -					t	1	

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

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.

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed:
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.

HERCE Commissions: NBSZ26 ANI, MD65 Inspector's Signature National Board, State, and Endorsements

Date: 2003

1. Owner:	Calvert Clift	fs Nuclear Pow	er Plant, Ir	nc	003		
		(name)					
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	20657	Sheet 1 of 3			
		(address)					
2 Plant.	Calvert Clif	ffs Nuclear Pov	ver Plant	Linit. Two			
z. I lällt.		(name)		Omt			
ACED Caluart			0057	BAB No. SG 2,0020	RAIAIC	No 51006	04526
1650 Calvert	Cliffs Parkway	LUSDY, MD 2	.0691	R&R NO. 59-2-002C		- NO. 3 1990	01520
		(address)		(P.C	J. no., jot	no., etc.)	
3. Work Perform	ed by: Calvert	Cliffs Nuclear	Power Pla	nt Dept. Type Code Symbo	ol Stam	: <u>N/A</u>	
	((name)		Authorization No.	: <u>N/A</u>		
4650 Calvert	Cliffe Derlayou	Luchy MD 20	667	Exp Date: <u>N/A</u>	_		
1050 Calvert	Chins Parkway,	LUSDY, MD 20	007	Section XI Class:	<u> </u>	NO	
		(address)					Deals
4. Identification	of System: Syster	n Number <u>Var.</u>	System Na	ame: Main Steam, B/D, F	·/W, A	ux/reed, &	Recir
		101 401	F D04 4 0	4007 Edition 4070 Add			
5.(a) Applicable	Construction Code	and Class: ASM	E B31.1.0	1967 Edition, 1972 Add			
(b) Applicable	Sect XI Ed. for Rep	airs/Replacement		1998 Editio	n	-	
6 Identification	of Components Bea	- oired or Peplaced a	nd Penlacem	ent Components:			
o. Identification	of components Kep	aneu or Replaceu a	inu kepiacem	en components.		Demoined	ASME
Name of	Name of	Manufacturers	National	Other	Vear	Repaired,	Stamped
Componet	Manufacturer	Serial Number	Board No.	Identification	Built	Replaced, or	(Yes or No)
			20112110				
Piping System	Bechtel	N/A	N/A	Main Steam, Feed Water, Blowdown, Wet-Layup Recirc. & Aux. Feed Water Sys.	1975	Repaired/Repl aced	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 HL#: JW6BA2	N/A	Vaive, 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

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

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	Ňo
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 ib., Socketweld, ASTM A-132 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-Blowdowa	ES199601526-210 Ht.#: B1P5656/C18293	N/A	Angle, 3 in. X 3 in. X 1/4 in., ASTM A-36	2002	Replacement	Na
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	Piug, 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:	<u>890</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.

9. Remarks:

<u>A Section XI System Leakage Test of the affected component was performed during the system conditions</u> <u>listed in section 8. of this report.</u> <u>Code Case N-416-1 was invoked to satisfy Section XI required pressure</u> <u>tests.</u> <u>Additional Section III Examinations were performed (as applicable) to satisfy Code Case N-416-1 and</u> <u>Reg.Guide 1.147.</u> <u>A Section XI Surface Examination and Ultrasonic Examination of the affected component</u> <u>was performed to satisfy Section XI Pre-Service NDE Requirements.</u> <u>With an approved Relief Request</u> <u>from NRC, we were allowed to use the 1993 Addenda of the 1992 Edition of Section III.</u> <u>This addenda</u> <u>permits the use of wire type IQI's (Image Quality Indicators) as an alternative to plaque type IQI's for</u> <u>radiographic examinations.</u> <u>Plaque type IQI's are required by Section III, 1992 Edition which is referenced by</u> <u>Code Case N-416-1 and by the installation code which is Section III, 1989 Edition.</u>

Applicable Manufacturer's Data Reports to be Attached

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.

yonce Commissions: NBSZZGANI MD64 Inspector's Signature National Board, State, and Endorsements

2003

1. Owner:	Calvert Cli	ffs Nuclear Powe	er Plant, li	nc. Date:	05/22/2003		•
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657	Sheet 1 o	f G_		
		(address)					· . •
o Dia	Calvert Cl	iffs Nuclear Pow	er Plant	TT!.	Two		
2. Plant:		(name)		Unit	100		
1650 Calvert	Cliffs Parkway	; Lusby, MD 2	0657	R&R No. SG-	2-002d, MW	0 No. S199	601526
		(address)			(P.O. no., jo	b no., etc.)	
1 Work Perform	ad hun Calver	t Cliffs Nuclear F	Power Pla	nt Dept. Type Cod	ie Symbol Stan	p: <u>N/A</u>	
5. WOLK FEITOIL		(name)		Authoriza	ation No.: <u>N/A</u>	7	
	Oliffe Deviewee		. .	Exp Date	: <u>N/A</u>		
1650 Calvert	Cliffs Parkway	, LUSDY, MD 200	51	Section X	I Class:)ne	
	£0	(address)	0	Banatar Ca	lant System	•	
4. Identification	of System: Syste	m Number _004_	System Na	ame: <u>Neactor Cot</u>	Jant System	<u>.</u>	
5. (a) Applicable	Construction Code	and Class: ASM	E B31.7 1	969 Edition, Sumn	ner 1971 Ad	d; Class On	e
(b) Applicable	Sect XI Ed. for Re	pairs/Replacement		199	8 Edition		• •
6. Identification	of Components Rej	paired or Replaced ar	nd Replacem	ent Components:		Densied	ASME
Name of	Name of	Manufacturers	National	Other	Year	Replaced, or	Stamped
Componet	Manufacturer	Serial Number	Board No.	Identification	Built	Replacemen	(Yes or No)
Piping System	Bechtel	1" & under CC-9	N/A	Reactor Cooling Sys. Instrumentation	1970	Repaired/Rep aced	No
Tubing	SGT-Reactor Coolant Flow Indication	ES199601526-212 Ht#: V0049	N/A	Tubing, 3/4 in. X .065 Wa ASME SA 213, Tp. 316	R II, 2002	Replacement	No
2D Tubing Clamp	SGT-Reactor Coolant Flow Indication	ES199601526-212 MWO.#: 0200100026	N/A	Ciamp, Tube, 3/4 in., 2 Directional, Mark #400, 0 P/N 3/4T-SS-2D, A/SA 27 Tp. 304/316	2002 Girard % or 479,	Replacement	No
Tubing Union	SGT-Reactor Coolant Flow Indication	ES199601526-212	N/A	Union, Tubing, 3/4 in. Sw P/N SS-12-TSW-6, ASTM A/SA182 or A/SA479, Tp	ragelok, 2002 I/ASME . 316	Replacement	No
Pipe	SGT-Reactor Coolant Flow Indication	ES199601526-212 Ht#: 7708H	N/A	Pipe, 1in. Sch 160, ASME TP-316	SA-376, 2002	Replacement	No
Fitting	SGT-Reactor Coolant Flow	ES199601526-212 Heat Code: CHPC	N/A	Fitting, 1 in. X 3/4 in. Pip Connector, Parker, P/N 1	e/Tubing 2002 l2-1-AW	Replacement	No

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

7. Description of Work:

Indication

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:	<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

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Charles H. Ballard Owner or Owner's Designee, Title Charles H. Ballard 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 D. Rawnence Commissions: <u>MB 8226 ANI</u> <u>MD 647</u> Inspector's Signature National Board, State, and Endorsements
Date: 11/1ay 27, 2003

1. Owner:	Calvert Cliffs	s Nuclear Pow	er Plant, Ir	າc	Date:05/22/2	003		
1650 Calvert	Cliffs Parkway:	Lusby, MD 2	20657		Shoot 1 of 2			
	(a	address)		<u> </u>	Sneet 1 of 2			
	Calvert Cliff	is Nuclear Pov	ver Plant					
2. Plant:	(1	name)			Unit:			
1650 Calvert	Cliffs Parkway;	Lusby, MD 2	20657	R&R I	lo. SG-2-002e	, MWC) No. S1996	01526
<u></u>	(a	iddress)	······································	<u> </u>	(P.	O. no., joł	o no., etc.)	· · · · · · · · · · · · · · · · · · ·
3 Work Perform	ed by: Calvert	Cliffs Nuclear	Power Pla	nt Dept.	Type Code Symb	ol Stam	p: <u>N/A</u>	
<i>J. H</i> H H H H H H H H H H	(n	name)			Authorization No	.: <u>N/A</u>		
1650 Calvert	Cliffs Parkway.	Lusby, MD 20	657		Exp Date: <u>N/A</u> Section XI Class:	One a	R. Two	
	(8	iddress)			Dection Al Class.	One	<u>x 1w</u> 0	
4. Identification	of System: System	Number 64/83	System Na	ame: <u>Stea</u>	m Generator I	Replac	ement	
			·					
5.(a) Applicable	Construction Code a	nd Class: AISC	C, Manual d	of Steel Co	nstruction, 6t	h Ed. 1	963	
(b) Applicable	Sect XI Ed. for Repa	irs/Replacement			1998 Editi	on		
6 Identification	of Components Pens	ired or Penlaced a	and Penlacem	ent Componer			· · · ·	
0. Identification	or components repa	fined of Replaced					Renaired	ASME
Name of	Name of	Manufacturers	National		Other	Year	Replaced, or	Stamped
Componet	Manufacturer	Serial Number	Board No.	Iden	tification	Built	Replacemen	(Yes or No)
Comp. Support	Combustion Engineering	N/A	N/A	#22 Steam Ger and Sliding Ba	serator Snubber se	1977	Repaired/Repi aced	No
Stud	SGT-Steam Generator Supports	ES199601526-207 Ht.#: 14433	N/A	Stud, 2 1/4 in. in., ASTM A-	X 4 1/2 TPI X 14 193, Gr. B7	2002	Replacement	No
Nut	SGT-Steam Generator Supports	ES199601526-207 Ht.#: 8991915	N/A	Nut, Heavy H TPI, ASTM /	ex, 2 1/4 in. X 4 1/2 \-194 Gr. 7	2002	Replacement	No
Washer	SGT-Steam Generator Supports	ES199601526-207	N/A	Washer, 2 1/4 Hardened, AS	in., Circular ME SA-193 Gr. B7	2002	Replacement	No
Plate	SGT-Steam Generator Supports	ES199601526-207	N/A	Plate, Shim, A Finish, Heat-T	ISI 4140, 125 RMS Treat to RC-40	2002	Replacement	No
Capscrew	SGT-Steam Generator Supports	ES199601526-207	N/A	Capscrew, So 13 TPI, UNC per ASTM F-	cket Head, 1/2 in. X 3A, Countersunk 335	2002	Replacement	No

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

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:	<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.

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 Repair/Replacement We certify that the statements made in this report are correct and that this 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 Charles H. Ballard Signed: Date: **Engineering Technician** 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. Commissions: NB8ZZC ANI Inspector's Signature National Board, State, and Endorsements Date: 27, 2003

1. Owner: Calvert Cliffs Nuclear Power Plant, Inc.					Date: 06/19/2003				
1650 Calvert Cliffs Parkway; Lusby, MD 20657					Sheet 1 of 4				
. <u></u>		(address)	· · · · · · · · · · · · · · · · · · ·				··-	•	
2. Plant: Calvert Cliffs Nuclear Power Plant (name)					Unit: Common				
1650 Calvert	Cliffs Parkwa	ay; Lusby, MD 2	20657	R&R	No. SNUB-0	-003, MV	VO No. SNL	IB POOL	
(address)					(P.O. no., job no., etc.)				
3. Work Performed by: Calvert Cliffs Nuclear Power Plant Dept.				Dept.	Type Code Symbol Stamp: <u>N/A</u> - Authorization No.: <u>N/A</u>				
1650 Calvert Cliffs Parkway, Lusby, MD 20657					Exp Date: <u>N/A</u> Section XI Class: 1, 2, & 3				
4. Identification	of System: Sys	(address) stem Number 065B	System Name:	Sel	smic Snubbe	ers			
5. (a) Applicable	Construction Co	de and Class: ASM Eng.	E B31.7 1969 Spec 8067-48	Ed, Sı 37-503	um. 1971 Add	I. Class (One or Con	bustion	
(b) Applicable Sect XI Ed. for Repairs/Replacement					1998 Edition				
6. Identification	of Components I	Repaired or Replaced a	and Replacement (Compon	ents:		Renaired	ASME	
Name of	Name of	Manufacturers	National		Other	Vear	Replaced or	Stamped	

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

Componet Manufacturer Serial Number Board No. Identification Built Replacemen (Yes or No) Snubber Pool Grinnell Snubber Pool N/A Hydraulic Shock and Sway 1975 Repaired/Repl No Corporation Suppressor aced Snubber Grinnell 59013-GX SN: 32355 N/A Hydraulic Shock and Sway 1991 Replacement No Suppressor, 2 1/2 In. Bore X 5 In. Corporation Stroke, Grinnell Fig. 200 Snubber Grinnell 59013-GX SN: 32320 N/A Hydraulic Shock and Sway 1991 Replacement No Corporation Suppressor, 1 1/2 in. Bore X 5 in. Stroke, Grinnell Fig. 200 Opt. 1 Hydraulic Shock and Sway 1991 Snubber Grinnell 59013-GX SN: 32317 N/A Replacement No Suppressor, 1 1/2 In. Bore X 5 In. Corporation Stroke, Grinnell Fig. 200 Opt. 1 Snubber Grinnell 10765-GX SN: 33329 N/A Hydraulic Shock and Sway 1995 Replacement No Corporation Suppressor, 3 1/4 in. Bore X 5 in. Stroke, Grinnell Fig. 200N Opt. 1 Snubber Grinnell 10765-GX SN: 33333 N/A Hydraulic Shock and Sway 1995 Replacement No Corporation Suppressor, 5 In. Bore X 5 In. Stroke, Grinnell Fig. 200N Opt. 1 402185 SN: 35008 2001 Replacement Snubber Anvil International N/A Hydraulic Shock and Sway No Inc. (Grinnell Suppressor, 2 1/2 in. Bore X 10 in. Saubbers) Stroke, Grinnell Fig. 200N Opt. 1

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.

Hydrostatic: 8. Tests Conducted:

N/A Pressure:

Pneumatic

psi.

Nominal Operating Pressure:

N/A Test Temperature: Deg. F

Inservice: 🛄 Leakage: 🗍 Functional: 🗍

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 <u>Repair/Replacement</u> conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration Date: <u>N/A</u>
Signed: Charles H. Ballard Owner or Owner's Designee, Title Engineering Technician Date:
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 <u>6-21-02</u> to <u>4-14-03</u> , 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.
Lobut Lawrence Commissions: <u>NBBZZE ANT, MDL47</u> Inspector's Signature National Board, State, and Endorsements
Date: Quere 20 2003



Calvert Cliffs Nuclear Power Plant Memorandum

Maintenance & Component Engineering Unit g/pes/win/word/memo/0800/0825-500.doc

White Paper

Given:

ASME-Sect. XI, 1998 Edition, Sub-Section IWA-4132 Stated

IWA-4132 Items Rotated From Stock

For snubbers and pressure relief values 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 IWV.

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.

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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.

25/2000

D. V. Hoang System / Component Sr. Engineer

C Sponse 8/25/00 Reviewed By: DES/PDSU Sr. Engineer

8-29-00 Concurrence: Kobut L