

ENCLOSURE (1)

BALTIMORE GAS AND ELECTRIC COMPANY
INSERVICE INSPECTION REPORT
FOR CALVERT CLIFFS UNIT 1

ASME BOILER AND PRESSURE VESSEL CODE
SECTION XI, FORM NIS-1

NIS-1

OWNER'S DATA REPORT FOR INSERVICE INSPECTION
(As Required by the Provisions of the ASME Code Rules)

1. Owner: Baltimore Gas and Electric Company
P. O. Box 1475
Baltimore, MD 21203
2. Plant: Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702
3. Plant Unit: One (#1)
4. Owner Certification of Authorization: N/A
5. Commercial Service Date: May 8, 1975
6. National Board Number for Unit: 20911
7. Components Inspected:

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL #	STATE OR PROVINCE #	NATIONAL BOARD NUMBER
Reactor Pressure Vessel	Combustion Engineering	CE-67107	14000NV	20911
Pressurizer	Combustion Engineering	CE-67602	14000NV	20915
Reactor Pressure Vessel Closure Head	Combustion Engineering	CE-67207	14000NV	20911
Steam Generator #11	Combustion Engineering	CE-67504	14000NV	20922
Steam Generator #12	Combustion Engineering	CE-67505	14000NV	20923
Reactor Coolant Pipe	Combustion Engineering	N/A	N/A	N/A
#11A Reactor Coolant Pump	Byron Jackson	SN-0437	14000NV	N/A
#11B Reactor Coolant Pump	Byron Jackson	SN-0438	14000NV	N/A
#12A Reactor Coolant Pump	Byron Jackson	SN-0439	14000NV	N/A

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7. Components Inspected: (con't.)

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL #	STATE OR PROVINCE #	NATIONAL BOARD NUMBER
#12B Reactor Coolant Pump	Byron Jackson	SN-0440	14000NV	N/A
#11A RCP Motor Flywheel	Westinghouse	SN-3S-79P528	N/A	N/A
#11B RCP Motor Flywheel	Westinghouse	SN-4S-77P108	N/A	N/A
#12A RCP Motor Flywheel	Westinghouse	SN-2S-77P108	N/A	N/A
#12B RCP Motor Flywheel	Westinghouse	SN-89P957	N/A	N/A
Pressurizer Surge Piping/Supports	Bechtel	N/A	N/A	N/A
Safety Injection Piping/Supports	Bechtel	N/A	N/A	N/A
Main Steam Piping/Supports	Bechtel	N/A	N/A	N/A
Containment Spray Piping/Supports	Bechtel	N/A	N/A	N/A
Pressurizer Spray Piping/Supports	Bechtel	N/A	N/A	N/A
Shutdown Cooling Piping/Supports	Bechtel	N/A	N/A	N/A
Pressurizer Safety & Relief Piping/Supports	Bechtel	N/A	N/A	N/A
Charging Piping/Supports	Bechtel	N/A	N/A	N/A
Drain Piping/Supports	Bechtel	N/A	N/A	N/A
Letdown Piping/Supports	Bechtel	N/A	N/A	N/A

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7. Components Inspected: (con't.)

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL #	STATE OR PROVINCE #	NATIONAL BOARD NUMBER
Auxiliary Feedwater Piping/Supports	Bechtel	N/A	N/A	N/A
Service Water Piping/Supports	Bechtel	N/A	N/A	N/A
Component Cooling Water Piping/Supports	Bechtel	N/A	N/A	N/A
Salt Water Piping/Supports	Bechtel	N/A	N/A	N/A

8. Examination Dates: August 21, 1992 to May 18, 1994

9. Inspection Interval: April 1, 1987 to April 1, 1998

10. Abstract of Examinations: (Include list of exams and statements concerning status of work required for current interval)

(See Enclosure 3)

The examinations reported herein constitute the eleventh such report of Inservice examination performed at Calvert Cliffs Unit 1, and the first report within the second period of the second interval of commercial operation. The examinations for the second interval as required by the Long-Term Examination Plan for Calvert Cliffs Unit 1, were performed in accordance with the 1983 Edition of ASME Code Section XI with Addenda through Summer, 1983. Hydrostatic and System Pressure Testing Procedures are available at the plant site for review.

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11. Abstract of Conditions Noted:
(See Enclosures 2 & 3)

- a. Eddy current examinations of #11 and #12 Steam Generators in 1994 revealed signs of steam generator tube degradation. Results of #11 Steam Generator examinations showed that of the 8,401 tubes examined, five were defective ($\geq 40\%$ wall loss). Inspection of #12 Steam Generator revealed that of the 8,442 tubes examined, ten were defective. As a result of this inspection, 32 tubes were plugged in #11 Steam Generator and 30 tubes were plugged in #12 Steam Generator.
- b. A remote visual examination of the Reactor Pressure Vessel (RPV) interior was performed with the core barrel in place. Two pieces of unidentified foreign material were observed.
- c. Visual examinations of supports revealed 30 supports with inservice or construction/installation deficiencies which included; eight supports with missing or loosened items; 13 supports with improper spring settings; and nine supports with improper clearances.
- d. During the surface examination of a safety injection piping weld, a rounded PT indication was recorded that exceeded the dimensions allowed by Section XI of the ASME Code.
- e. We had identified sixty-three NIS-2's that were not included with the November 17, 1992 Inservice Inspection Report for Calvert Cliffs Unit #1 due to administrative and clerical problems. An additional 25 NIS-2's have been identified that should have been included with the November 17, 1992 Inservice Inspection Report.

12. Abstract of Corrective Measures Recommended and Taken:
(See Enclosure 3)

- a. Thirty-two tubes were plugged in #11 Steam Generator and 30 tubes were plugged in #12 Steam Generator.
- b. All foreign material was retrieved and removed from the RPV interior.
- c. The supports were either accepted by evaluation in accordance with IWF-3122.4 or repaired/replaced to bring them into conformance with their original design.
- d. An Issue Report was written and the PT indication was removed.
- e. Eighty-seven of the 88 outstanding NIS-2's are included in this submittal. The Maintenance Order associated with the remaining NIS-2 can not be found and is believed to be lost. An Issue Report (IR0-009-785) was written and the maintenance order will be reworked.

13. Names of Inspectors: R. W. Lawrence and D. L. DaullaryEmployer of Inspectors: Factory Mutual Engineering Association
401 City Avenue, Suite #420
Bala Cynwyd, PA 19004

We certify that the Statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

DATE: August 11, 1994SIGNED: K. M. Hoffman, Baltimore Gas & Electric Company
K. M. Hoffman, Sr. Engineer
Nuclear Inspection Services Unit

Certificate of Authorization No.

N/A

Expiration Date

N/A

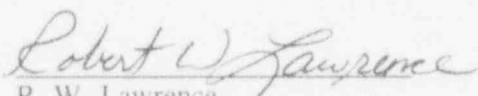
NIS-1

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Maryland and employed by Arkwright-Mutual Insurance Company of Norwood, Massachusetts have inspected the components described in this Owner's Data Report during the period August 21, 1992 to May 18, 1994, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Data Report in accordance with the requirements of the ASME Code, Section XI.

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

DATE:


R. W. Lawrence
Factory Mutual Engineering Association

COMMISSION:

NB 8226 ANI MD 647
National Board, State,
Province and Endorsements

ENCLOSURE (2)

BALTIMORE GAS AND ELECTRIC COMPANY
INSERVICE INSPECTION REPORT
FOR CALVERT CLIFFS UNIT 1

ASME BOILER AND PRESSURE VESSEL CODE
SECTION XI, FORM NIS-2

MWO No.	RRNo.	UEI	Class	Scope
09202540	93-0-014	0HC4-1011	Two	Modify piping support 4" HC4-1011-H4 in accordance with MCR #92-067-003.
18809833	94-1-018	1PUMPSICS12	Two	Overhaul #12 Containment Spray Pump, replace horizontal casing threaded fasteners as re
19102911	92-1-097	1#GC3-1005	Two	PERFORM FCR 90-01-790 ON PIPE SUPPORT #4 GC3-1005 H53
19103148	92-1-107	1CV3938	Two	OVERHAUL OF 1CV3938 INNER/MAIN PLUG ONLY
19105398	92-1-125	1#DC1-1006	Two	FAB AND INSTALL PIPE SUPPORT PER MM#91-052-030-0
19105866	93-10006	1PUMPSIRWT	Two	REPLACE BOLTING ON #11 RWT RECIRC PUMP SUCTION & DISCHARG LINE.
19202910	94-1-055	1CV4013CV	Two	Correct a seat leakage deficiency on 1-CV-4013. Replace Body to Bonnent Fasteners as r
19202910	93-1-059	1CV4013	Two/	Correct a seat leakage deficiency on 1-CV-4013.
19204925	93-1-035	1RV200	One	Replace valve with O/H'd Valve
19205653	92-1-164	1CKVSI-237	One	Correct Seat leak deficiency
19206164	94-1-005	1CV4010	Two/	Overhaul and inspected 1CV4010 to correct a seat leakage deficiency.
19206229	92-1-167	1PUMPCVCB	Two	WELD REPAIR OF CASEING LEAK
19208054	94-1-021	1CKVSI-247	One	O/H 12B SI LOOP INLET CHK VALVE
19300789	93-1-024	1PZVRX11	One	RV ICI FLANGE STUDS & NUTS
19301461	94-1-025	1RV4006	Two	DISC REPLACEMENT S/N OF DISC: BM-7802
19301568	94-1-022	1HXRC12	One	Replace Pri. Manway Cover Stud having failed VT-1
19301777	93-1-007	1ACCSTABILI	Two	REPLACE #11 CHG PP SUCTION STABALIZER MACHINED CAP
19301997	93-1-037	1CKVAFW-12	Two	REPLACE VALVE IAW FCR 85-811
19302152	93-1-046	1PUMPRC12B	One	Replace NO. 12B Reactor Coolant Pump Mechanical Seal under the Seal Overhaul Progra
19302154	93-1-047	1PUMPRC11B	One	Replace NO. 11B Reactor Coolant Pump Mechanical Seal under the Seal Overhaul Progra
19302166	94-1-051	1#HC7-1004	Two	RE-RATE PIPING HC7 PER FCR
19302330	93-1-036	1CV3939	Two	O/H #12 S/G ATMOS. DUMP
19302330	93-10085	1CV3939	Two	REVISION TO 93-1-036 TO REPAIR THE VALVE COVER THREADED PLUG.

MWO No.	RRNo.	UEI	Class	Scope
19303114	94-1-010	1#CC13-1001,1	One	TEMP SUPPORTS FOR SICHKVALVE REPLACEMENT
19303115	93-1-016	1CKVSI-235	One	FCR 89-14, REPLACE 1-SI-235, valve S/N #4-16296-01
19303116	93-1-015	1CKVSI-225	One	FCR 89-14, REPLACE 1-SI-225, valve S/N #3-16296-01
19303117	93-1-014	1CKVSI-215	One	FCR 89-14, REPLACE 1-SI-215, valve S/N #5-16292-01
19303309	94-1-009	1MOV6621	Two	REPAIR PLAN TO CORRECT CASTING DEFECT
19303336	93-1-042	1MOV6611	Two	REPLACE 6611 IAW FCR 90-01-1056
19303340	93-1-041	1MOV6612	Two	REPLACE 6612 IAW FCR 90-01-1056
19303374	94-1-053	1#EB12-1029	Two/	Repaired half coupling connection (Socket Depth below Min.) of Main Steam Drain Pot #
19303638	93-1-027B	1FO4350	One	INSTALL 1-FO-4350
19303655	93-1-027	1FO4350	One	FABRICATE FL 1/2-FO-4350
19303957	94-1-008	1PZRPV11	One	REPLACEMENT OF PZR HTRS
19303990	93-10018	Snubber I-41-2	Two	Snubber Overhaul G2/G3
19303991	93-10019	Snubber I-41-6	One	Snubber Overhaul G2/G3
19303992	93-10020	Snubber I-41-9	One	Snubber Overhaul G2/G3
19303993	93-10021	Snubber I-41-1	One	Snubber Overhaul G2/G3
19303995	93-10022	Snubber I-45-1	Two	Snubber Overhaul G2/G3
19303996	93-10023	Snubber I-45-3	Two	Snubber Overhaul G2/G3
19303997	93-10024	Snubber I-52-2	One	Snubber Overhaul G2/G3
19303998	93-10025	Snubber I-52-3	Two	Snubber Overhaul G2/G3
19303999	93-10026	Snubber I-52-3	One	Snubber Overhaul G2/G3
19304000	93-10027	Snubber I-52-3	One	Snubber Overhaul G2/G3
19304001	93-10028	Snubber I-52-4	One	Snubber Overhaul G2/G3
19304002	93-10029	Snubber I-52-4	Two	Snubber Overhaul G2/G3

MWO No.	RRNo.	UEI	Class	Scope
19304003	93-10030	Snubber I-52-4	One	Snubber Overhaul G2/G3
19304004	93-10031	Snubber I-52-4	One	Snubber Overhaul G2/G3
19304005	93-10032	Snubber I-52-5	One	Snubber Overhaul G2/G3
19304006	93-10033	Snubber I-52-5	One	Snubber Overhaul G2/G3
19304007	93-10034	Snubber I-52-5	One	Snubber Overhaul G2/G3
19304026	93-10036	Snubber I-63-2	Two	Snubber Overhaul G2/G3
19304027	93-10037	Snubber I-63-2	Two	Snubber Overhaul G2/G3
19304028	93-10038	Snubber I-64-3	One	Snubber Overhaul G2/G3
19304029	93-10039	Snubber I-64-4	One	Snubber Overhaul G2/G3
19304030	93-10040	Snubber I-64-9	One	Snubber Overhaul G2/G3
19304031	93-10041	Snubber I-64-1	One	Snubber Overhaul G2/G3
19304032	93-10042	Snubber I-64-1	One	Snubber Overhaul G2/G3
19304033	93-10043	Snubber I-64-1	One	Snubber Overhaul G2/G3
19304034	93-10044	Snubber I-64-2	One	Snubber Overhaul G2/G3
19304036	93-10045	Snubber I-64-9	One	Snubber Overhaul G2/G3
19304037	93-10046	Snubber I-64-1	One	Snubber Overhaul G2/G3
19304038	93-10047	Snubber I-83-1	Two	Snubber Overhaul G2/G3
19304039	93-10048	Snubber I-83-1	Two	Snubber Overhaul G2/G3
19304040	93-10049	Snubber I-83-1	Two	Snubber Overhaul G2/G3
19304041	93-10050	Snubber I-83-1	Two	Snubber Overhaul G2/G3
19304042	93-10051	Snubber I-83-5	Two	Snubber Overhaul G2/G3
19304043	93-10052	Snubber I-83-7	Two	Snubber Overhaul G2/G3
19304681	93-10035	Snubber I-63-1	Two	Snubber Overhaul G2/G3

MWO No.	RRNo.	UEI	Class	Scope
19306148	94-1-027	1CV516	One	DISC REPLACEMENT ON 1CV516
19306167	94-1-024	1MOV636	Two	Overhaul 1-MOV-636 to correct seat leakage deficiency.
19400226	94-1-040	1CV100F	One	O/H PZR SPRAY VALVE 1CV100f
19400238	94-1-032	1CKVSI-148	One	REPLACE COVER FASTENERS
19400542	94-1-033	1PZPZR11	One	Plug Pressurizer Heater Nozzels B-3 & FF-1. Work performed by B&W.
19400543	94-1-056	1RV3993	Two	COMPRESSION SCREW REPLACEMENT
19400705	93-10053	Snubber I-64-1	One	Snubber Overhaul G2/G3
19400719	93-10055	1-83-23	Two	Over Haul Snubber 1-83-23 IAW G2 Rev. 0
19400773	94-1-034	1SYS084	One	PLUG REACTOR VESSEL FLANGE O-RING LEAK OFF PI ROOT
19400907	94-1-060	1-DR-5 & 6	Two/	1-DRAIN 5 & 6 support modifications in accordance with MCR 94-83-2-00.
19400909	94-1-059	1#CC3-1004	One	Install lateral restraints to 1-CV515 & 516 in accordance with MCR #94-041-007.
19401651	93-10054	Snubber I-64-1	One	Snubber Overhaul G2/G3
19401834	94-1-063	1PZRPV11	One	REPLACE GROUNDED HEATER W/BLIND PLUG
19402050	94-1-065	1RV200	One	REPLACE RV

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: July 18, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway; Lusby, Md. 20657 Unit: 1
NISU Ref. No.: 94-1-018
P.O.No., MWO No. 18809833
3. Work Performed by: Baltimore Gas & Electric Company
CCNPP Dept., 1650 Calvert Cliffs Parkway
Lusby, MD 20657 Type Code Symbol Stamp: None
Authorization No. N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 061 System Name: Containment Spray ASME Sec. XI Class: 2
5. (a) Applicable Construction Code & Class: Bechtel Spec 6750-M-62
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Ed., Summer 1983 Add.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Replaced horizontal casing joint bolting on #12 Containment Spray Pump.
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure XXX
Pressure 35 psi Test Temperature 95 °F
9. Remarks/Code Cases: VT-2 performed during system conditions referred in block 8 above.

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

Certificate of Compliance

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

Signed [Signature] David W. Bacon
Owner or Owner's Designee, Title Engineering Technician Date July 18, 1994

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 2-10-94 to 4-7-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

[Signature] Commissions NB 8226 ANI MD 647
Inspector's Signature National Board, State, and Endorsements

Date: August 9, 1994

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

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203

2. Plant/Address Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway; Lusby, Md. 20657

3. Work Performed by: Baltimore Gas & Electric Company
CCNPP Dept., 1650 Calvert Cliffs Parkway
Lusby, MD 20657

Date: August 5, 1994
Sheet: 1 of 1

Unit: Common
NISU Ref. No.: 93-0-014
P.O. No., MWO No. 09202540
Type Code Symbol Stamp: None
Authorization No. N/A
Expiration Date: N/A

4. Identification of System: Startup No.: 67 System Name: Spent Fuel Pool Cooling ASME Sec. XI Class: 2
5. (a) Applicable Construction Code & Class: USAS B31.7 69' Ed. thru 71' Add., Cl. 3
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Ed., Summer 83' Add.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Modified the piping support 4" HC4-1011-H4 IAW MCR#92-067-003.
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure N/A
Pressure psi Test Temperature F
9. Remarks/Code Cases: The R/R was revised by Supplement No. 94-10073.

Note: Applicable Manufacturer's Data Reports to be Attached
Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2in x 11in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate of Compliance

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

Signed David W. Bacon Date August 5, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components described in this Owners Report during the period 3-4-94 to 8-5-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence Commissions NB 8226 ANI MD 647
Inspector's Signature National Board, State, and Endorsements

Date: August 10, 1994

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: July 18, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway; Lusby, Md. 20657 Unit: 1
NISU Ref. No.: 94-1-018
P.O. No., MWO No. 18809833
3. Work Performed by: Baltimore Gas & Electric Company
CCNPP Dept., 1650 Calvert Cliffs Parkway
Lusby, MD 20657 Type Code Symbol Stamp: None
Authorization No. N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 061 System Name: Containment Spray ASME Sec. XI Class: 2
5. (a) Applicable Construction Code & Class: Bechtel Spec 6750-M-62
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Ed., Summer 1983 Add.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Replaced horizontal casing joint bolting on #12 Containment Spray Pump.
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure XXX
Pressure 35 psi Test Temperature 95 °F
9. Remarks/Code Cases: VT-2 performed during system conditions referred in block 8 above.

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

Certificate of Compliance

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

Signed David W. Bacon Date July 18, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 2-10-94 to 4-7-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence Commissions NB 8226 ANI MD 647
Inspector's Signature National Board, State, and Endorsements

Date: August 9, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Pump	Replaced	Byron Jackson Pump	N/A	N/A	#12 Containment Spray Pump, 1PUMPSICS12	1975	N
Rod	Replacement	Cardinal Industrial	N/A	N/A	Allthread 7/8" x 9TPI PO#57533-GX Mech#75P27	1992	N
Nut	Replacement	Cardinal Industrial	N/A	N/A	Heavy Hex 7/8" x 9TPI PO#36481-GX Mech#75P08	1989	N

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

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203
2. Plant/Address Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway; Lusby, Md. 20657
3. Work Performed by: Baltimore Gas & Electric Company
CCNPP Dept., 1650 Calvert Cliffs Parkway
Lusby, MD 20657
4. Identification of System: Startup No.: 67 System Name: Spent Fuel Pool Cooling ASME Sec. XI Class: 2
- (a) Applicable Construction Code & Class: USAS B31.7 69' Ed. thru 71' Add., CL3
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Ed., Summer 83' Add.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Modified the piping support 4" HC4-1011-H4 IAW MCR#92-067-003.
8. Tests Conducted: Hydrostatic N/A Pressure psi Pneumatic N/A Test Temperature F Nominal Operating Pressure N/A
9. Remarks/Code Cases: The R/R was revised by Supplement No. 94-10073.

Note: Applicable Manufacturer's Data Reports to be Attached
Supplemental sheets in form of lists, sketches, of drawings may be used, provided (1) size is 8-1/2in x 11in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate of Compliance

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

Signed David W. Bacon Date August 5, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components described in this Owners Report during the period 3-4-94 to 8-5-94 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence Commissions NB 8226 ANI MD 647
Inspector's Signature National Board, State, and Endorsements

Date: August 10, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Piping System	Replaced	Bechtel	HC-4-1011-H4	N/A	Spent Fuel Pool Cooling Piping System Support Line Class HC4	1975	N
Welded Beam Attachment	Replacement	Grinnell Corp.	N/A	N/A	Grinnell Fig. 66N 5/8"RS PO#59861-GX Mech#59G25	1991	N
Rod	Replacement	Grinnell Corp.	N/A	N/A	Threaded, 5/8" x 8" PO# LO4402NP	1993	N
Nut	Replacement	A & G Engineering	N/A	N/A	Heavy Hex, 1/2" x 13TPI PO#10530-GX Mech#NX032	1988	N
Eye Nut	Replacement	Grinnell Corp.	N/A	N/A	Weldless 5/8" Rod Size PO#LO7813NP Mech#Q8308	1994	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI, 1983 ED., S'83 ADD

1. Owner/Address: Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: December 13, 1993
Sheet: 1 of 1
2. Plant/Address: Calvert Cliffs Nuclear Power Plant Unit: One NISU Ref. No.: 92-1-097
Rts. 2 & 4; Lusby, MD 20657 19102911
P.O. No., MWO No.
3. Work Performed by: Baltimore Gas & Electric Company Type Code Symbol Stamp: NONE
Rts. 2 & 4; Lusby, MD 20657 Authorization No. N/A
4. Identification of System: Startup No.: 061 System Name: Containment Spray Expiration Date: N/A
ASME Sec. XI Class: TWO
5. (a) Applicable Construction Code & Class: USAS B31.7 1969 Edition thru 1971 Addenda, Class 2
(b) Applicable Installation Code & Class: USAS B31.7 1969 Edition thru 1971 Addenda, Class 2
(c) Original Construction/Installation Code & Class: USAS B31.7 1969 Edition thru 1971 Addenda, Class 2
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Modify Anchor 4" GC3-1005-H53 in accordance with FCR #90-01-790.

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

9. Remarks/Code Cases: A VT-3 Visual Examination of the completed piping supports was performed to satisfy Section XI Pre-Service NDE. The above listed replacement plan was revised by Supplement No. 93-10009 which changed the added material to the list of authorized replacement items. Code Cases N-71 & 247 were used in the fabrication process of the replacement Spring Can.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed: David W. Bacon Date: December 13, 1993
Owner or Owner's Designee, Title: Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 6-8-93 to 9-23-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in 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.

Factory Mutual Engineering Association

Inspector's Signature: David W. Bacon Commissions: NB 7525 IBNA MD 765
National Board, State, and Endorsements

Date: APRIL 17 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacture	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Piping System	Replaced	Bechtel	4"GC3-1005 Anchor H53	N/A	Containment Spray Piping Hanger	1975	N
Piping System	Replacement	Grinnel Corporation	73211-GX S/N 1992-365	N/A	Spring Can, Grinnel Fig. No. 82 Size 10 Type C	1992	Y
Piping System	Replacement	Grinnel Corporation	59860-GX Mech No. 59A21	N/A	Weldless Eye Nut, Grinnel Fig. 290N	1991	N
Piping System	Replacement	Cardinal Ind Products	PO #57533-GX Mech No. 75P16	N/A	Nut, Heavy Hex, 3/4" X 10TPI SA-194 Gr2H	1992	N
Piping System	Replacement	Cardinal Ind Products	PO #57533-GX Mech No. 75P26	N/A	Rod, Allthread, 3/4" X 10TPI SA-193 GrB7	1992	N

FORM NF-1 CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS*
 *required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 2

1. Manufactured by Grinnell Corporation - 1341 Elmwood Ave. - Cranston, RI 02910
 (name and address of NPI Certificate Holder)
2. Manufactured for Baltimore Gas & Electric Co. - PO Box 1472 - Baltimore, MD 21203
 (name and address of Purchaser)
3. Location of installation Calvert Cliffs Nuc. Gen. Sta. - 1650 Calvert Cliffs Pkwy. - Lusby, MD 20657
 (name and address)
4. Type: C.S.S. DRS 32, Rev. 6 1992
 (describe) (Design Report of Load Capacity Data Sheet) (year built)
5. ASME Code, Section III, Division 1: 1980 Winter, 1982 2 Note 1
 (edition) (addenda and date) (class) (Code Case No.)

6. Identification

(a) Component Support I.D. No.	(b) Material Specification No.	(c) Canadian Registration No.	(d) Applicable Drawings With Last Rev. & Date	(e) National Board No.
(1) 1992-365	Note 2	N/A	BH-1101, Rev. K, 8-28-87	N/A
(2)				
(3)				
(4)				
(5)				
(6)				
(7)				
(8)				
(9)				
(10)				

7. Remarks: Notes: 1) W-71, W-247
- 2) SA-36, SA-53 GR B
- P.O. #73211GX
- S.O. #41-11338

*Supplemental information in the forms of lists, sketches, or drawings may be used provided (1) size 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI, 1983 ED., S'83 ADD

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: April 28, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant Unit: One NISU Ref. No.: 92-1-107
1650 Calvert Cliffs Parkway; Lusby, Md. 20657 19103148
P.O.No., MWO No.
3. Work Performed by: Baltimore Gas & Electric Company Type Code Symbol Stamp: NONE
Rts. 2 & 4; Lusby, MD 20657 Authorization No. N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 083 System Name: Main Steam Sys ASME Sec. XI Class: Two/MC
5. (a) Applicable Construction Code & Class: USAS B31.1 1967 Ed. thru 1972 Add.
(b) Applicable Installation Code & Class: USAS B31.1 1967 Ed. thru 1972 Add.
(c) Original Construction/Installation Code & Class: USAS B31.1 1967 Ed. thru 1972 Add.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Overhaul 1-CV-3938 to correct seat leak deficiency.
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure XXX
Pressure 800psi Test Temperature 365°F
9. Remarks/Code Cases: A VT-2 Visual Examination of the disturbed mechanical joints were performed during the plant conditions listed in block 8. The replacement Plan was revised using Supplement No. 93-10084.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed David W. Bacon Date April 28, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 5-11-92 to 11-12-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in 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.

Factory Mutual System

Robert W. Lawrence Commissions NB 8226 ANI MD 647
Inspectors Signature National Board, State, and Endorsements

Date: August 3, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No.	Other Identification	Year Built	ASME Code Stamped Y or N
Valve	Replaced	Copes Vulcan	Not Available	N/A	1-CV-3938, Steam Gen. Atmospheric Dump Valve	1975	N
Valve	Replacement	Copes Vulcan	PO #54198-GX S/N 91-2	N/A	Inner Plug	1991	N
Valve	Replacement	Copes Vulcan	PO #46023-GX S/N 90-1	N/A	Main Plug	1990	N
Valve	Replacement	Cardinal Ind.Products	57533-GX Mech No75P09	N/A	Nut, Heavey Hex, 1"X8TP ASME SA-194 Grade 2H	1992	N
Valve	Replacement	Cardinal Ind.Products	57533-GX Mech No75P28	N/A	Rod, Allthread, 1"X 8TP ASME SA-193 Grade B7	1992	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI, 1983 ED., S'83 ADD

1. Owner/Address: Baltimore Gas & Electric Company
P.O. Box 1475, Baltimore, MD 21203 Date: April 28, 1994
Sheet: 1 of 1
2. Plant/Address: Calvert Cliffs Nuclear Power Plant Unit: One NISU Ref. No.: 92-1-125
1650 Calvert Cliffs Parkway; Lusby, Md. 20657 19105398
P.O. No., MWO No.
3. Work Performed by: Baltimore Gas & Electric Company Type Code Symbol Stamp: None
CCNPP Dept., 1650 Calvert Cliffs Parkway Authorization No. N/A
Lusby, MD 20657 Expiration Date: N/A
4. Identification of System: Startup No.: 041 System Name: Safety Injection ASME Sec. XI Class: Two
5. (a) Applicable Construction Code & Class: USAS B31.7 1969 ED. THRU 71 ADD. CLASS 2
(b) Applicable Installation Code & Class: USAS B31.7 1969 ED. THRU 71 ADD. CLASS 2
(c) Original Construction/Installation Code & Class: USAS B31.7 1969 ED. THRU 71 ADD. CLASS 2
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Fabricate and install pipe support PG-47-2 PS-405 @ 1MOV626 per MCR 91-052-030-0.
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure N/A
Pressure psi Test Temperature F
9. Remarks/Code Cases: A VT-3 Visual Examination of the completed support was performed to satisfy Section XI Pre-Service NDE requirements. The replacement Plan was revised using Supplement No. 93-10001.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed

David W. Bacon
Owner or Owner's Designee, Title

David W. Bacon
Engineering Technician Date April 28, 1994

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 6-25-92 to 2-18-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in 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.

Factory Mutual Engineering Association

Robert W. Lawrence
Inspector's Signature

Commissions NB 8226 AWC MD 647
National Board, State, and Endorsements

Date:

August 5, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacture	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Piping System	Replaced	Bechtel	2"CC13-1002	N/A	Safety Inj. Upstream 2nd Iso. from Loop	1975	Y
Piping System	Replacement	Hub Inc.	43220-GX Mech No.88752	N/A	Clamp, Pipe Hanger 2 in. PG41/43A	1990	N
Piping System	Replacement	Grinnell Corporation	54500-GX Mech No.88757	N/A	Clamp, Restraint for 2 in. PG41/43A	1991	N
Piping System	Replacement	Cardinal Ind Products	PO #57352-GX Mech No.NX063	N/A	Bolt, Heavy Hex, 1/2" X 13TPI SA-193 Gr 7	1991	N
Piping System	Replacement	Cardinal Ind Products	PO #57533-GX Mech No.75P05	N/A	Nut, Heavy Hex, 1/2" X 13TPI SA-194 Gr 2H	1992	N
Piping System	Replacement	Dubose Steel Inc.	PO #36777-GX Mech No.88706	N/A	Angle Iron, 1" X 1/2" X 1/4" 13TPI SA-194 Gr 2H A36 8/5/51	1992	N
Piping System	Replacement	Dubose Nat. Energy	53792-GX Mech No.75503	N/A	1/2" Plate Steel SA36	1992	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI, 1983 ED., S'83 ADD

1. Owner/Address: Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: February 28, 1994
Sheet: 1 of 1
2. Plant/Address: Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway; Lusby, Md. 20657 Unit: 1
NISU Ref. No.: 93-10006
P.O. No., MWO No.: 19105866
3. Work Performed by: Baltimore Gas & Electric Company
CCNPP Dept., 1650 Calvert Cliffs Parkway
Lusby, MD 20657 Type Code Symbol Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 052 System Name: Safety Injection System ASME Sec. XI Class: 2
5. (a) Applicable Construction Code & Class: USAS B31.7, 69-71a; Class 3
(b) Applicable Installation Code & Class: USAS B31.7, 69-71a; Class 3
(c) Original Construction/Installation Code & Class: USAS B31.7, 69-71a; Class 3
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Disassemble #11 RWT recirc pump, inspect and repair as necessary. Overhaul and install the mechanical seal and repair leaks on the bearing housing. Perform modification to the pump in accordance with MCR #92-052-006-0. This documents the replacement of fasteners damaged during disassembly, or lacking proper code/ traceability markings.
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure XX
Pressure 31 psi Test Temperature 87 F
9. Remarks/Code Cases: A VT-2 was performed on the completed assembly at the temperature and pressure listed above. The generic replacement plan, G1-R0, was invoked by supplement number 93-10006 and revised by supplement number 93-10011.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed

Steven F. Wolf
Owner, or Owner's Designee, Title

Steven F. Wolf
Engineer

Date February 28, 1994

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 5-4-93 to 8-5-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in 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.

Factory Mutual Engineering Association

Robert W. Lawrence
Inspector's Signature

Commissions NB 8226 ANI, MD 647

National Board, State, and Endorsements

Date: April 29, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacture	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
11 RWT Recic Pump	Replaced	Gould Pumps, Inc.	53787S Model #3196-S	N/A	2-1/2" HC-23-1004	1975	N
Allthread 1/2" Mech #75P23	Replacement	N/A	N/A	N/A	PO # 57533GX SP-546/4	1992	N
Allthread 5/8" Mech #75P25	Replacement	N/A	N/A	N/A	PO # 57533GX SP-546/4	1992	N
Nut 5/8" Mech #75P07	Replacement	N/A	N/A	N/A	PO # 57533GX SP-546/4	1992	N
Nut 1/2" Mech #75P05	Replacement	N/A	N/A	N/A	PO # 48242GX SP-546/3	1990	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI, 1983 ED., S'83 ADD

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: June 6, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant Unit: One NISU Ref. No.: 94-1-055, 94-1-059
1650 Calvert Cliffs Parkway; Lusby, MD 20657 19202910
P.O.No., MWO No.
3. Work Performed by: Baltimore Gas & Electric Company Type Code Symbol Stamp: NONE
Rts. 2 & 4; Lusby, MD 20657 Authorization No. N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 083 System Name: Main Steam System ASME Sec. XI Class: Two
5. (a) Applicable Construction Code & Class: Draft Pump & Valve Code 1968 Ed. thru March 1970 Add. Class 1
(b) Applicable Installation Code & Class: Draft Pump & Valve Code 1968 Ed. thru March 1970 Add. Class 1
(c) Original Construction/Installation Code & Class: Draft Pump & Valve Code 1968 Ed. thru March 1970 Add. Class 1
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Correct a Seat leak deficiency on 1-CV-4013
8. Tests Conducted: Hydrostatic N/A Pressure 850 psi Pneumatic N/A Test Temperature 520 °F Nominal Operating Pressure XX.
9. Remarks/Code Cases: A VT-2 Visual Examination of the disturbed mechanical joints was performed during the system conditions listed in block 8 above. An ANII hold point was observed which required the completion of a Liquid Dye Penetrant of the replacement disc prior to installation.
Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed

Owner or Owner's Designee, Title

David W. Bacon
Engineering Technician

Date June 6, 1994

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 Arkwright Mutual Insurance Co. of Norwood, Ma, have inspected the components

described in this Owners Report during the period 1-5-94 to 5-2-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence
Inspector's Signature

Commissions NB 8226 ANI MD 647

National Board, State, and Endorsements

Date:

June 29, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacture	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Valve	Replaced	Masoneilan Int'l Inc.	#H59104-1-4 1-CV-4013	N/A	#12 Steam Generator Bottom B/D Cont. Iso.	1975	N
Valve	Replacement	Masoneilan Int'l Inc.	58739-GX A16408-14	N/A	Plug, Valve, 600 Lb.	1991	N
Valve	Replacement	Cardinal Ind Products	PO #57533-GX Mech No.75P07	N/A	Nut, Heavy Hex, 5/8" X 11TPI SA-194 Gr2H	1992	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI, 1983 ED., S'83 ADD

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: June 27, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway; Lusby, Md. 20657 Unit: 1
NISU Ref. No.: 93-1-035
P.O. No., MWO No. 19204925
3. Work Performed by: Baltimore Gas & Electric Company
CCNPP Dept., 1650 Calvert Cliffs Parkway
Lusby, MD 20657 Type Code Symbol Stamp: None
Authorization No. N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 64 System Name: Reactor Coolant Sys ASME Sec. XI Class: 1
5. (a) Applicable Construction Code & Class: ASME B&PV Code Sect. III, 1968 Ed. thru Winter 68A
(b) Applicable Installation Code & Class: ASME B&PV Code Sect. III, 1968 Ed. thru Winter 68A
(c) Original Construction/Installation Code & Class: ASME B&PV Code Sect. III, 1968 Ed. thru Winter 68A
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Replace valve 1-RV-200 to correct a seat leakage deficiency.
8. Tests Conducted: Hydrostatic N/A Pressure 2235 psi Pneumatic N/A Test Temperature 653 °F Nominal Operating Pressure XXX
9. Remarks/Code Cases: VT-2 exam performed during system conditions referred in block 8 above. Supplement
No. 93-10086 implements the Generic Replacement Plan G1, Rev 2 for flange bolting.

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

Certificate of Compliance

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

Signed David W. Bacon Date June 27, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 12-16-93 to 5-10-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence Commissions NB 8226 ANI MD 647
Inspectors Signatures National Board, State, and Endorsements

Date: August 5, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Valve	Replaced	Dresser Industrial Valve	N/A	N/A	Pressurizer Steam Safety Valve, 1-RV-200	1982	Y
Valve	Replacement	Dresser Industrial Valve	BM-07952	N/A	Pressurizer Steam Safety Valve, 1-RV-200 PO#84311-GX Mech#88834	1993	Y

Industrial Valves

DRESSER

Alexandria, LA USA

FORM NVR-1 REPORT OF REPAIR ☒ MODIFICATION ☒ OR REPLACEMENT ☐ OF NUCLEAR PRESSURE RELIEF DEVICE

Dresser Industries, Inc., Dresser Valve & Controls Div., Industrial Valve Operations,

1. Work performed by Intersection U.S. Hwy. 187 & LA 3225 North, Alexandria, LA (Name of Repair Organization)

2. Owner (Name) Baltimore Gas & Electric Co., Calvert Cliffs Nuclear St.

(Address) P. O. Box 1836, Baltimore, MD 21203

3. Name, address and identification of nuclear power plant Baltimore Gas & Electric Co.,
Calvert Cliffs Nuclear St., 1850 Calvert Cliffs Parkway, Lusby, MD 20657

4. a. Identification of repaired pressure relief device: Safety Valve

b. Name of manufacturer: See Above

c. Identifying nos. 2-1/2" 31739A BM-07952 N/A Steam 2-1/2" 1973
(type) (mfr's. serial no.) (Nat'l Bd. no.) (service) (size) (year built)

5. Applicable edition of ASME Code Section XI under which repairs, modifications or replacements were made: (edition) 1983

(addenda) Summer 1983 (code case) N/A

6. Applicable edition of ASME Code Section III to which repairs modifications or replacements were made: (edition) 1988

(addenda) Winter 1988 (code case) N/A

7. Design responsibility: See 1, Above

8. Opening pressure: 2485 PSIG Blowdown (if applicable): N/A Set pressure and blowdown adjustments made at
(location) Wyle Laboratories, Huntsville, Alabama using (test media) Steam

9. Description of work: (include name and identifying no. of replacement parts)

Disassembled, inspected, cleaned, reassembled and tested

10. Remarks: * Replaced Nozzle P/N 4231701-05417 S/N AAB16 supplied by BG&E

* This is a revised report

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the pressure relief device described above conforms to Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions.

Certificate of Authorization No. 107 to use the "VR" stamp expires 3/30 19 96

Certificate of Authorization No. 48 to use the "NR" stamp expires 3/30 19 96

Date 6 Dec 19 93 Signed Same as 1 above Principal QA Engineer
(repair organization) (authorized representative) (title)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of TN and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, CT have inspected the repair, modification or replacement described in this report on 12/9 19 93 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made or constructed in accordance with Section XI and Section III of the ASME Code and the National Board rules as defined in the publications NB-65 and NB-102, current editions. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12-9 19 93 E. J. Paulk Commissions NB5114-N-A TN555
(Authorized Inspector) (Nat'l Bd No. (including endorsements) state or province & no.)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203

Date: July 19, 1994
Sheet: 1 of 1

2. Plant/Address Calvert Cliffs Nuclear Power Plant Unit: One
1650 Calvert Cliffs Parkway; Lusby, MD 20657

NISU Ref. No.: 92-1-164
19205653
P.O. No., MWO No.

3. Work Performed by: Baltimore Gas & Electric Company
Rts. 2 & 4; Lusby, MD 20657

Type Code Symbol Stamp: NONE
Authorization No. N/A
Expiration Date: N/A
ASME Sec. XI Class: One

4. Identification of System: Startup No.: 052 System Name: Safety Injection

5. (a) Applicable Construction Code & Class: USAS B31.1 1967 Ed. thru 1972 Add. Code Case N-10

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Edition with Summer 83 Addenda.

6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.

7. Description of Work: Overhaul 1SICKV-237 to correct a seat leakage deficiency. Replace Valve Disc and Cover threaded fasteners as required. Performed MCR 92-052-011, which modified the Anti-Rotation device on the Valve Disc.

8. Tests Conducted: Hydrostatic N/A Pressure 2295 psi Pneumatic N/A Test Temperature 532 °F Nominal Operating Pressure XX.

9. Remarks/Code Cases: A Liquid Penetrant Examination of the replacement disc was performed to satisfy an ANII Hold Point prior to installation. A VT-1 Visual Examination was performed on the replacement cover fasteners prior to installation. A VT-2 Visual Examination of the disturbed menchanical joint was performed at the system conditions listed in block 8 above. The replacement valve disc recieved a VT-3 Visual Examination to satisfy In Service Testing requirements. The replacement plan was revised under Supplement No. 94-10016.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed David W. Bacon Date July 19, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 7-12-93 to 5-2-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence Commissions NB 8226 ANI MD 647
Inspectors Signature National Board, State, and Endorsements

Date: August 3, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No.	Other Identification	Year Built	ASME Code Stamped Y or N
Valve	Replaced	Velan Eng.	0040	N/A	#12A Reactor Coolant Loop In. Chk Valve, 1SICKV-237	1975	N
Valve	Replacement	Velan Eng.	03254-GX S/N 5907	N/A	12 in. Swing Check Disc	1989	N
Valve	Replacement	Velan Eng.	54027-GX	N/A	Cover Stud, 1-7/8"	1984	N
Valve	Replacement	Cardinal Ind. Products	70925-GX	N/A	Cover Nut, 1-7/8"	1992	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203
2. Plant/Address Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway; Lusby, Md. 20657
3. Work Performed by: Baltimore Gas & Electric Company
CCNPP Dept., 1650 Calvert Cliffs Parkway
Lusby, MD 20657

Date: July 20, 1994
Sheet: 1 of 1

Unit: 1
NISU Ref. No.: 94-1-005
P.O. No., MWO No. 19206164
Type Code Symbol Stamp: None
Authorization No.: N/A
Expiration Date: N/A

4. Identification of System: Startup No.: 083 System Name: Main Steam ASME Sec. XI Class: 2/MC

5. (a) Applicable Construction Code & Class: Draft Pump & Valve Code, 1968 Ed. thru March 70 Add. Cl. 2

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Ed., Summer 1983 Add.

6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.

7. Description of Work: Overhauled and inspected valve 1-CV-4010 to correct a seat leakage deficiency.

8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure XXX
Pressure 750 psi Test Temperature 520 °F

9. Remarks/Code Cases: A VT-2 visual examination was performed during the system conditions referred in block 8 above. A liquid penetrant examination was performed on the installed valve plug to satisfy ANII Hold point.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed [Signature] David W. Bacon
Owner or Owner's Designee, Title Engineering Technician Date July 20, 1994

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 1-24-94 to 5-2-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

[Signature] Commissions NB 8226 ANI MD 647
Inspector's Signature National Board, State, and Endorsements

Date: July 20, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Valve	Replaced	Masoneilan International Inc.	#H-59104-1-3	N/A	#11 Steam Generator Surface Blowdown Cntmt. Iso. 1-CV-4010	1975	N
Valve	Replacement	Masoneilan/Dresser C/O E. Cont	A16408-14	N/A	Valve Plug, 2 in., 600# PO#58739-GX Mech#96K51	1991	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: July 26, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant Unit: One NISU Ref. No.: 92-1-167
1650 Calvert Cliffs Parkway; Lusby, Md. 20657 19206229
P.O.No., MWO No.
3. Work Performed by: Baltimore Gas & Electric Company Type Code Symbol Stamp: None
CCNPP Dept., 1650 Calvert Cliffs Parkway Authorization No. N/A
Lusby, MD 20657 Expiration Date: N/A
4. Identification of System: Startup No.: 041 System Name: Chemical Volume Control System ASME Sec. XI Class: TWO
5. (a) Applicable Construction Code & Class: USAS B31.1 1967 Ed. thru 72 Add.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Edition with Summer 83 Addenda.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Weld repair crack on #11 Boric Acid Pump Casing.
8. Tests Conducted: Hydrostatic XX Pneumatic N/A Nominal Operating Pressure N/A
Pressure 157 psi Test Temperature 76 °F
9. Remarks/Code Cases: A V_T Visual Examination of the disturbed mechanical joints was performed during the system conditions listed in block 1. Code Case N-408 was invoked to support the above listed repairs.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed [Signature] David W. Bacon Date July 26, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 9-24-92 to 11-5-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

[Signature] Commissions NB 8226 ANI MD 647
Inspectors Signature National Board, State, and Endorsements

Date: July 26, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacture	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Pump	Repaired	Dean Brothers	N/A	N/A	No. 11 Boric Acid Pump 1PUMPCVCBA11.	1975	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: July 21, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant Unit: One NISU Ref. No.: 94-1-021
1650 Calvert Cliffs Parkway; Lusby, MD 20657 19208054
P.O. No., MWO No.
3. Work Performed by: Baltimore Gas & Electric Company Type Code Symbol Stamp: NONE
Rts. 2 & 4; Lusby, MD 20657 Authorization No. N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 052 System Name: Safety Injection ASME Sec. XI Class: One
5. (a) Applicable Construction Code & Class: USAS B31.1 1967 Ed. Code Case N-10
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Edition with Summer 83 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Overhaul 1CKVSI-247 to correct a seat leakage deficiency. Performed MCR 92-052-011, which modified the Anti-Rotation device on the Valve Disc.
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure XX.
Pressure 2295 psi Test Temperature 532 °F
9. Remarks/Code Cases: A Liquid Penetrant Examination of the replacement disc was performed to satisfy an ANII Hold Point prior to installation. A VT-1 Visual Examination was performed on the replacement cover fasteners prior to installation. A VT-2 Visual Examination of the disturbed mechanical joint was performed at the system conditions listed in block 8 above. The replacement valve internals disc recieved a VT-3 Visual Examination to satisfy In Service Testing requirements. The replacement plan was revised under Supplement No. 94-10018.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed David W. Bacon Date July 21, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 3-3-94 to 5-2-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence Commissions NB 8226 ANI MD 647
Inspector's Signature National Board, State, and Endorsements

Date: August 1, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No.	Other Identification	Year Built	ASME Code Stamped Y or N
Valve	Replaced	Velan Eng.	0033	N/A	#12b Reactor Coolant Loop In. Chk Valve, 1CKVSI-247	1975	N
Valve	Replacement	Velan Eng.	03254-GX S/N 5906	N/A	12 in. Swing Check Disc	1989	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: August 1, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant Unit: One NISU Ref. No.: 93-1-024
Rts. 2 & 4; Lusby, MD 20657 19300789
P.O. No., MWO No.
3. Work Performed by: Baltimore Gas & Electric Company Type Code Symbol Stamp: NONE
Rts. 2 & 4; Lusby, MD 20657 Authorization No. N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 064 System Name: Reactor Coolant Sys ASME Sec. XI Class: One
5. (a) Applicable Construction Code & Class: B&PV Code Sect. III Class A, 65 Ed. thru W/ 67 Add. with CC1335-2, 1332,
1336, 1359, 1359-1.
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Edition with Summer 83 Addenda.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Replace In Core Instrumentation (ICI) Blind Seal Plugs and threaded fasteners. The Seal Plugs were installed due to obstructions in the Reactor Vessel which prevented the reinstallation of the In CCI Wires. The threaded fasteners were replaced due to Boric Acid buildup and subsequent corrosion.
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure XX.
Pressure 2295 psi Test Temperature 532 °F
9. Remarks/Code Cases: A VT-1 Visual Examination of the replacement threaded fasteners was performed prior to installation. A VT-2 Visual Examination of the disturbed mechanical joints was performed during the system conditions listed in block 8 above. The replacement plan was revised by supplement number 94-10084 which added to the list of authorized replacement items.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed

David W. Bacon
Owner or Owner's Designee, Title

David W. Bacon
Engineering Technician

Date August 1, 1994

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 11-11-93 to 5-2-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in 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.

Factory Mutual Engineering Association

Robert W. Lawrence
Inspector's Signature

Commissions NB 8226 ANI MD 647

National Board, State, and Endorsements

Date: August 10 19994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacture	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Vessel	Replaced	Combustion Engineering	CE67107 (Ves) CE67207 (Hd)	N/A	Unit One Reactor Vessel	1971	Y
Vessel	Replacement	Baltimore Gas & Elec.	50863-GX Mech No.75958	N/A	ICI Blind Seal Plugs ref MWO No. 205-241-088A	1985	N
Vessel	Replacement	Dubose Nat. Energy	85501-GX Mech No.59B06	N/A	ICI Flange Stud	1993	N
Vessel	Replacement	Dubose Nat. Energy	85501-GX Mech No.88952	N/A	Nut, Heavy Hex	1993	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI, 1983 ED., S'83 ADD

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: June 6, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant Unit: One NISU Ref. No.: 94-1-025
1650 Calvert Cliffs Parkway; Lusby, MD 20657 19301461
P.O. No., MWO No.
3. Work Performed by: Baltimore Gas & Electric Company Type Code Symbol Stamp: NONE
Rts. 2 & 4; Lusby, MD 20657 Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 083 System Name: Main Steam System ASME Sec. XI Class: Two
5. (a) Applicable Construction Code & Class: Draft Pump & Valve Code 1968 Ed. thru March 1970 Add. Class 2
(b) Applicable Installation Code & Class: Draft Pump & Valve Code 1968 Ed. thru March 1970 Add. Class 2
(c) Original Construction/Installation Code & Class: Draft Pump & Valve Code 1968 Ed. thru March 1970 Add. Class 2
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Correct a Seat leak deficiency on I-RV-4006
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure XX
Pressure 850 psi Test Temperature 520 °F
9. Remarks/Code Cases: A VT-2 Visual Examination of the disturbed mechanical joints was performed during the system conditions listed in block 8 above.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed [Signature] David W. Bacon
Owner or Owner's Designee, Title Engineering Technician Date June 6, 1994

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 3-12-94 to 5-2-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

[Signature] Commissions NB 8226 ANI MD 647
Inspector's Signature National Board, State, and Endorsements

Date: July 11, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacture	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Valve	Replaced	Dresser Industries	#BM-7802	N/A	#12 Steam Generator Safety Relief, 1RV4006	1975	N
Valve	Replacement	Dresser Industries	84079-GX Mech No.96229	N/A	Disc, Relief Valve	1993	Y

Alexandria, Louisiana USA

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

As Required by the Provisions of the ASME Code, Section III, Div. 1
Not to Exceed One Day's Production

Page 1 of 1

Dresser Industries, Inc., Dresser Valve & Controls Div. Industrial Valve Operations

1. Manufactured and certified by Intersection Hwy. 167 & 3225 North, Alexandria, LA 71309-1430
(Name and Address of Certificate Holder)
2. Manufactured for Baltimore Gas & Electric, P. O. Box 1535, Baltimore MD 21203
(Name and Address of Purchaser)
3. Location of Installation Balt. Gas & Elect., Calvert Cliffs, Lusby MD 20657
(Name and Address)
4. Type OS428 Rev. 4 AS65 Gr. 616 N/A N/A 1993
(Drawing No.) (Mat'l. Spec. No.) (Tensile Strength) (CRN) (Year Built)
5. ASME Code, Section III: 1988 No 2 N/A
(Edition) (Addenda) (Class) (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(No.)
7. Remarks: N/A
8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft.&in.) N/A Length overall (ft.&in.) N/A
9. When applicable, Certificate Holders' data reports are attached for each item of this report.

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) AC189	
(2) AC180	
(3) AC181	
(4) AC182	
(5) AC183	
(6) AC184	
(7) AC185	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
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(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design Pressure N/A psi Temp. N/A °F Hydro test pressure 2250 PSI at temp. °F

*Supplemental information in form of lists, sketches or drawings may be used provided, (1) size is 8 1/2 x 11, (2) information in items 2 & 3 on this data report is included on each sheet, (3) sheet is numbered and number of sheets is recorded at top of this form, and (4) each additional sheet shall be signed by the Certificate Holder and the ANI.

To <u>Steve Wot</u>	From <u>Cheryl</u>
Co. _____	Co. _____
Dept. _____	Phone # _____
Fax # _____	Fax # _____

CERTIFICATE OF DESIGN

Design specifications certified by _____ N/A _____ P.E. _____ N/A _____ Reg. no. _____ N/A
(when applicable)

Design report* certified by _____ N/A _____ P.E. _____ N/A _____ Reg. no. _____ N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc
 conform to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2434 Expires May 20, 1995

Date 16 Nov 93 Name See Line 1 Signed [Signature]
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP COMPLIANCE

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Vessel Inspector and the state or province of Louisiana and employed by The Hartford Steam Boiler Inspection & Insurance Co., of Hartford, CT, have inspected these items described in this data report on 11/17/93 and state that to the best of my knowledge and believe, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the data shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 11/17/93 Signed [Signature] Commissions LAB 54
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI, 1983 ED., S'83 ADD

1. Owner/Address: Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: July 8, 1994
Sheet: 1 of 1

2. Plant/Address: Calvert Cliffs Nuclear Power Plant Unit: One
1650 Calvert Cliffs Parkway; Lusby, MD 20657 NISU Ref. No.: 94-1-022
19301568
P.O. No., MWO No.

3. Work Performed by: Baltimore Gas & Electric Company
Rts. 2 & 4; Lusby, MD 20657 Type Code Symbol Stamp: NONE
Authorization No.: N/A
Expiration Date: N/A
ASME Sec. XI Class: 1

4. Identification of System: Startup No.: 064 System Name: Reactor Coolant System

5. (a) Applicable Construction Code & Class: B&PV CODE SECT. III, 65 ED THRU WINTER 67 Add.
(b) Applicable Installation Code & Class: B&PV CODE SECT. III, 65 ED THRU WINTER 67 Add.
(c) Original Construction/Installation Code & Class: B&PV CODE SECT. III, 65 ED THRU WINTER 67 Add.

6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.

7. Description of Work: Remove & reinstall #12 Steam Generator Primary Manway Cover to support Unit One's 1994 refueling outage. Replace one primary manway cover stud due to having failed the inservice VT-1 Visual Examination.

8. Tests Conducted: Hydrostatic N/A Pressure 2295 psi Pneumatic N/A Test Temperature 532 °F Nominal Operating Pressure XXX

9. Remarks/Code Cases: A VT-1 Visual Examination was performed on the stud prior to installation. A VT-2 Visual Examination of the disturbed mechanical joints was performed during the system conditions listed in block 8 above.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Signed David W. Bacon Date July 8, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 3-14-94 to 5-2-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence Commissions NB 8226 ANI MD 647
Inspector's Signature National Board, State, and Endorsements

Date: July 11, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No.	Other Identification	Year Built	ASME Code Stamped Y or N
Pressure Vessel	Replaced	Combustion Engineering	CE67505	20923	#12 steam Generator	1971	Y
Pressure Vessel	Replacement	Combustion Engineering	PO# 37350GX	N/A	1 1/2" Studs ASME SA540 B24	1989	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section, 1983 ED., S'83 ADD

1. Owner/Address: Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203
- Date: June 1, 1993
Sheet: 1 of 1
2. Plant/Address: Calvert Cliffs Nuclear Power Plant
Rts. 2 & 4; Lusby, MD 20657
- Unit: One
NISU Ref. No.: 93-1-007
19301777
P.O. No., MWO No.
3. Work Performed by: Baltimore Gas & Electric Company
Rts. 2 & 4; Lusby, MD 20657
- Type Code Symbol Stamp: NONE
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 041 System Name: Chemical Volume Control ASME Sec. XI Class: Two
5. (a) Applicable Construction Code & Class: ASME Sect. III Class 2 Subsect NC 1977 Ed Winter 78 Add.
(b) Applicable Installation Code & Class: ASME Sect. III Class 2 Subsect NC 1977 Ed Winter 78 Add.
(c) Original Construction/Installation Code & Class: ASME Sect. III Class 2 Subsect NC 1977 Ed Winter 78 Add.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Replace Bladder in #11 Charging Pump Suction Stabilizer. Replaced cap due to galled threads.
8. Tests Conducted: Hydrostatic N/A Pressure 10 psi Pneumatic N/A Test Temperature 120 °F Nominal Operating Pressure XX.
9. Remarks/Code Cases: A VT-2 Visual Examination of the welded joint was performed during the system conditions listed in block 8 above.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed

Owner or Owner's Designee, Title

David W. Bacon

Engineering Technician

Date July 31, 1993

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 3-21-93 to 3-21-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in 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.

Factory Mutual Engineering Association

Robert W. Lawrence
Inspector's Signature

Commissions NB8226 ANI

MD 647

National Board, State, and Endorsements

Date: August 25, 1993

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No.	Other Identification	Year Built	ASME Code Stamped Y or N
Pressure Vessel	Replaced	Greer Hyd's	GHI-10096	514	#11 Charging Pump Suction Stabalizer	1980	Y
Pressure Vessel	Replacement	ABB CE	71786-GX	N/A	Machined Cap, ABB-CE P/N 004-66834-0012	1992	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: July 20, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway; Lusby, Md. 20657 Unit: 1
NISU Ref. No.: 93-1-037
P.O. No., MWO No.: 19301997
3. Work Performed by: Baltimore Gas & Electric Company
CCNPP Dept., 1650 Calvert Cliffs Parkway
Lusby, MD 20657 Type Code Symbol Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Startup No.: 036 System Name: Auxiliary Feed Water ASME Sec. XI Class: 2
5. (a) Applicable Construction Code & Class: USAS B31.1 1967 Ed.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Ed., Summer 1983 Add.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Replaced 1CKVAFW-129 IAW FCR# 85-8111 to correct a seat leakage deficiency.
8. Tests Conducted: Hydrostatic N/A Pressure 1200 psi Pneumatic N/A Test Temperature 100 °F Nominal Operating Pressure XXX
9. Remarks/Code Cases: VT-2 examination performed during system conditions referred in block 8 above. A Radiographic Test was performed to satisfy Code Case N-416. The R/R was revised by Supplement No. 94-10030.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed

David W. Bacon
Owner or Owner's Designee, Title

David W. Bacon
Engineering Technician Date July 20, 1994

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 3-16-94 to 5-2-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence
Inspector's Signature

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

Date: July 26, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Valve	Replaced	Chapman Division of Crane Co.	Not Available	N/A	#11 S/G Auxiliary Feed Water Check Valve 1CKVAFW-129	1975	N
Valve	Replacement	Crane Aloyco	C3680	N/A	Check valve , 4 in. ASTM A-216 PO#88373-GX Mech#NXXK07	1994	N
Pipe	Replacement	Tioga Pipe Supply Company	N/A	N/A	Steel Pipe , 4 in. SA-106 Grade B PO#76446-GX Mech#59919	1993	N

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: July 22, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway; Lusby, Md. 20657 Unit: 1
NISU Ref. No.: 93-1-046
P.O. No., MWO No. 19302152
Type Code Symbol Stamp: None
Authorization No. N/A
Expiration Date: N/A
3. Work Performed by: Baltimore Gas & Electric Company
CCNPP Dept., 1650 Calvert Cliffs Parkway
Lusby, MD 20657
4. Identification of System: Startup No.: 64 System Name: Reactor Coolant ASME Sec. XI Class: 1
5. (a) Applicable Construction Code & Class: Sect. III 83 Ed. S83 Add. Cl. 1
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Ed., Summer 83' Add.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Replaced #12B RCP Pump Seal under Seal Rebuild program.
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure XXX
Pressure 2250 psi Test Temperature 512 °F
9. Remarks/Code Cases: A VT-2 exam was performed during the system conditions referred in block 8 above.

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

Certificate of Compliance

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

Signed

Owner or Owner's Designee, Title

David W. Bacon
Engineering Technician Date July 22, 1994

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 2-10-94 to 5-11-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence
Inspector's Signature

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

Date: July 26, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacturer	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Reactor Coolant Pump	Replaced	Sulzer Bingham Inc.	N/A	N/A	#12B Reactor Coolant Pump Seal Cartridge Assembly- 1PUMPRC12B	1988	Y
RCP Pump Seal Assembly	Replacement	Sulzer Bingham Inc.	1C869 (Assembly)	NB1291	Seal Housing - Component of Seal Cartridge Assby. PO#13645-MX Mech#96G24	1988	Y
RCP Pump Seal Assembly	Replacement	Sulzer Bingham Inc.	1C869 (Assembly)	NB1292	Thrust Ring - Component of Seal Cartridge Assby. PO#13645-MX Mech#96G24	1988	Y
RCP Pump Seal Assembly	Replacement	Sulzer Bingham Inc.	1C869 (Assembly)	NB1293	Thrust Ring Retainer Comp. of Seal Cart. Asy. PO#13645-MX Mech#96G24	1988	Y
RCP Pump Seal Assembly	Replacement	Sulzer Bingham Inc.	1C869 (Assembly)	NB1294	Seal Gland - Component of Seal Cartridge Assby. PO#13645-MX Mech#96G24	1988	Y

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475, Baltimore, MD 21203 Date: July 29, 1994
Sheet: 1 of 1
2. Plant/Address Calvert Cliffs Nuclear Power Plant Unit: One NISU Ref. No.: 93-1-047
1650 Calvert Cliffs Parkway; Lusby, Md. 20657 19302154
P.O. No., MWO No.
3. Work Performed by: Baltimore Gas & Electric Company Type Code Symbol Stamp: None
CCNPP Dept., 1650 Calvert Cliffs Parkway Authorization No.: N/A
Lusby, MD 20657 Expiration Date: N/A
4. Identification of System: Startup No.: 064 System Name: Reactor Coolant ASME Sec. XI Class: One
5. (a) Applicable Construction Code & Class: ASME B&PV Code Section III, Class One; 1983 Ed. thru Summer 83 Add.
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Edition with Summer 83 Addenda.
6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.
7. Description of Work: Replace #11B Reactor Coolant Mechanical Seal in accordance with the Seal Rebuild program.
8. Tests Conducted: Hydrostatic N/A Pneumatic N/A Nominal Operating Pressure XX
Pressure 2295 psi Test Temperature 532 °F
9. Remarks/Code Cases: A VT-2 Visual Examination of the disturbed mechanical joints was performed during the system conditions listed in block 8 above.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed David W. Bacon Date July 29, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected the components

described in this Owners Report during the period 2-10-94 to 5-2-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence Commissions NB 8226 ANE MD 647
Inspector's Signature National Board, State, and Endorsements

Date: August 1, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacture	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Pump	Replaced	Sulzer Bingham	1C866	N/A	11B Reactor Coolant Pump Mechanical Seal	1988	Y
Pump	Replacement	Sulzer Bingham	13645-MX S/N 1C868	N/A	Mechanical Seal Assembly Seal Housing	1988	Y
Pump	Replacement	Sulzer Bingham	13645-MX S/N 1C868	N/A	Mechanical Seal Assembly Seal Gland	1988	Y
Pump	Replacement	Sulzer Bingham	13645-MX S/N 1C868	N/A	Mechanical Seal Assembly Thrust Ring Retainer	1988	Y
Pump	Replacement	Sulzer Bingham	13645-MX S/N 1C868	N/A	Mechanical Seal Assembly Thrust Ring	1988	Y
Pump	Replacement	Sulzer Bingham	13645-MX S/N 1C868	N/A	Mechanical Seal Assembly 3/4" Valve	1988	Y

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

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Sulzer Bingham Pumps Inc. 2800 N.W. Front Ave. Portland, OR 97210
(Name and address of MPT Certificate holder)

2. Manufactured for Baltimore Gas & Electric Baltimore, Maryland 21203
(Name and address of purchaser)

3. Location of installation Calvert Cliffs Nuclear Power Station
(Name and address)

4. Type D24605 Rev. F SA351 GR CF3 70,000 N/A 1990
(Drawing no.) (Mat'l spec. no.) (Design strength) (Code) (Year built)

5. ASME Code, Section III: 1981 Summer 1981 1 N/A
(Edition) (Addenda serial) (Class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) _____ Revision _____ Date _____

7. Remarks: Seal Gland, Vapor HT# 304L-8824
SBP Material Code #Q88-1981

8. Nom. thickness (in.) 2.50* Min. design thickness (in.) 0.46* Dia. ID (fr & in.) 8.75* Length overall (fr & in.) 7.27*

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 Number in Numerical Order
(1) <u>2234580-6</u>	<u>NB1295</u>	(26) _____	_____
(2) <u>1C868</u>	_____	(27) _____	_____
(3) _____	_____	(28) _____	_____
(4) _____	_____	(29) _____	_____
(5) _____	_____	(30) _____	_____
(6) _____	_____	(31) _____	_____
(7) _____	_____	(32) _____	_____
(8) _____	_____	(33) _____	_____
(9) _____	_____	(34) _____	_____
(10) _____	_____	(35) _____	_____
(11) _____	_____	(36) _____	_____
(12) _____	_____	(37) _____	_____
(13) _____	_____	(38) _____	_____
(14) _____	_____	(39) _____	_____
(15) _____	_____	(40) _____	_____
(16) _____	_____	(41) _____	_____
(17) _____	_____	(42) _____	_____
(18) _____	_____	(43) _____	_____
(19) _____	_____	(44) _____	_____
(20) _____	_____	(45) _____	_____
(21) _____	_____	(46) _____	_____
(22) _____	_____	(47) _____	_____
(23) _____	_____	(48) _____	_____
(24) _____	_____	(49) _____	_____
(25) _____	_____	(50) _____	_____

10. Design pressure 2500 psi Temp. 650 °F. Hydro. test pressure 3125 at temp. °F 60

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

(12-86)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

S.O. 1C868 - CODE DATA REPORT
ITEM 424 - SEAL GLAND
CODE # Q88-1981 - SN-L

FORM N-2 (back)

Mfr. Serial No. _____

CERTIFICATION OF DESIGN

Design specifications certified by R. F. Ash Maryland P.E. State Reg. no. 9198
(When applicable)

Design report* certified by W. R. Bak, Jr. CA P.E. State Reg. no. C-31430
(When applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Seal Gland, Vapor
 conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N1655 Expires Feb. 28, 1992

Date 2/22/90 Name Sulzer Bingham Pumps Inc. Signed Bob Faulkner
(NPT Certificate Holder) (Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
Oregon and employed by Lumbermens Mutual Casualty Company

of Illinois have inspected these items described in this Data Report on 2/22/90 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. Each part listed has been authorized for stamping on the data shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
 in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or
 loss of any kind arising from or connected with this inspection.

Date 2/22/90 Signed A. M. Tate Commissions 74101 A-F-E-C-E-S
(Authorized Inspector) (N.B. Ins. and Authorized State or Prov. and No.)

S.O. 10368 - CODE DATA REPORT
 ITEM 424 - SEAL GLAND
 CODE # Q88-1981 SN-6

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

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Sulzer Bingham Pumps Inc. 2800 N.W. Front Ave., Portland, OR 97210
(Name and address of NPT Certificate holder)
2. Manufactured for Baltimore Gas & Electric Baltimore, Maryland 21203
(Name and address of purchaser)
3. Location of installation Calvert Cliffs Nuclear Power Station
(Name and address)
4. Type A62259 No Rev. SA351 GR CF3 70,000 N/A 1990
(Drawing no.) (Mat. spec. no.) (Service strength) (Class) (Year built)
5. ASME Code, Section III: 1981 Summer 1981 I N/A
(Edition) (Addenda date) (Class) (Under Code no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) _____ Revision _____ Date _____
(Div.)
7. Remarks: Thrust Ring Retainer HT# 104L-8810
SRP Material Code 988-1557

8. Nom. thickness (in.) 2.00" Min. design thickness (in.) 0.75" Dia. (O.D. & in.) 113.75" Length overall (ft & in.) 2.00"
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 Number in Numerical Order
(1) <u>2256444-5</u>	<u>NB1295</u>	(26) _____	_____
(2) <u>10868</u>	_____	(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) _____	_____
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(18) _____	_____	(43) _____	_____
(19) _____	_____	(44) _____	_____
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(21) _____	_____	(46) _____	_____
(22) _____	_____	(47) _____	_____
(23) _____	_____	(48) _____	_____
(24) _____	_____	(49) _____	_____
(25) _____	_____	(50) _____	_____

10. Design pressure 2500 psi Temp. 650 °F Hydr. test pressure 3125 at temp. °F 60
(When applicable)

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

112-86

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 1300, Fairfield, NJ 07007-1300

S.O. 10868 - CODE DATA REPORT
ITEM 125 - THRUST RING RETAINER
CODE # 988-1557 SH-1
PAGE 139

FORM N-2 (back)

Mfr. Serial No. _____

CERTIFICATION OF DESIGN

Design specifications certified by R. F. Ash (When applicable) P.E. State Maryland Reg. no. 9198
 Design report* certified by W. R. Bak, Jr. (When applicable) P.E. State CA Reg. no. C-31430

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Thrust Ring Retainer
 conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N1655 Expires Feb. 28, 1992
 Date 2/21/90 Name Sulzer Bingham Pumps Inc. Signed Bob Faulkner
(NPT Certificate Holder) (Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Oregon and employed by Lumbermens Mutual Casualty Company of Illinois have inspected these items described in this Data Report on 2/24/90 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. 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 2/24/90 Signed [Signature] Commissions 71166 WATSC II
(Authorized Inspector) (Not to be used under contract with or by any state or province)

S.O. 10868-CODE DATA REPORT
 ITEM 125-THRUST RING RETAINER
 CODE # 088-1557 - SN-6
 PAGE 100

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

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Sulzer Bingham Pumps Inc., 2800 N.W. Front Ave., Portland, OR 97210
(Name and address of NPT Certificate holder)

2. Manufactured for Baltimore Gas & Electric Baltimore, Maryland 21203
(Name and address of purchaser)

3. Location of installation Calvert Cliffs Nuclear Power Station
(Name and address)

4. Type D24612 No Rev. SA351 GRCF3 70,000 N/A 1990
(Drawing no.) (Mat. spec. no.) (Design strength) (CRN) (Year built)

5. ASME Code, Section III: 1983 Summer 1983 1 N/A
(Edition) (Addenda date) (Class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) _____ Revision _____ Date _____
(Div. 2)

7. Remarks: Thrust Ring HT# 304L-3808
SBP Material Code #Q88-1556

8. Nom. thickness (in.) 1.20" Min. design thickness (in.) 0.994" Dia. (ft & in.) 1'4.995" Length overall (ft & in.) 1.20"

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 Number in Numerical Order
(1) <u>2234475-6</u>	<u>NB1297</u>	(26) _____	
(2) <u>1C868</u>		(27) _____	
(3) _____		(28) _____	
(4) _____		(29) _____	
(5) _____		(30) _____	
(6) _____		(31) _____	
(7) _____		(32) _____	
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(22) _____		(47) _____	
(23) _____		(48) _____	
(24) _____		(49) _____	
(25) _____		(50) _____	

10. Design pressure 2500 psi Temp. 650 °F. Hydro. test pressure 3125 at temp. 650
(ASME Section III, Div. 2, Subpart 1)

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

(12-86) This form (E000401) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007 2300

S.O. 1C868 - CODE DATA REPORT
ITEM 122 - THRUST RING
CODE # Q88-1556
PAGE 128

FORM N-2 (back)

Mr. Serial No. _____

CERTIFICATION OF DESIGN

Design specifications certified by R. F. Ash Maryland P.E. State Reg. no. 9198
(when applicable)

Design report certified by W. R. Bak, Jr. CA P.E. State Reg. no. C-11430
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Thrust Ring
 conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N1655 Expires Feb. 28, 1992

Date 2/21/90 Name Sulzer Bingham Pumps Inc. Signed Bob Faulkner
(NPT Certificate number) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Oregon and employed by Lumbermens Mutual Casualty Company of Illinois have inspected these items described in this Data Report on 2/21/90 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. 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 2/21/90 Signed [Signature] Commissions 7476 N.E.C. IS
(Inspector's name) (N.B. NPTC, NBP, or other state or provincial board)

S.O. 12863 - CODE DATA REPORT
 ITEM 122 - THRUST RING
 CODE # Q88-1553
 PAGE 120

1. Manufactured by Dragon Valves, 13457 Excelsior Dr. Norwalk, CA. 90650
(Name and Address of Manufacturer)

2. Manufactured for Sulzer Bingham Pumps Inc. 2800 N.W. Front Avenue, Portland OR. 97210
(Name and Address of Purchaser or Owner)

3. Location of installation Sulzer Bingham Pumps Inc. 2800 N.W. Front Ave. Portland OR. 97210
(Name and Address)

4. Pump or Valve Valve Nonreturn Inlet Size 3/4" Outlet Size 3/4"
(Inch) (Inch)


	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd No.	(g) Year Built
(1)	15490-11SW8SW	TN1005	N/A	15502	2	N/A	1988
(2)		thru		Rev. N/C			
(3)		TN1024					
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

7. Design Conditions N/A psi N/A °F or Valve Pressure Class _____ (1)
(Pressure) (Temperature)

8. Cold Working Pressure 3600 psi at 100°F.

9. Pressure Retaining Pieces _____

[illegible]

DOCUMENT REVIEWED  11/22/80

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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This paper is NOT to be distributed from the Order Desk. ASME, 345 E. 47th St., New York, N.Y. 10017

S.O. 1 C868 - CODE DATA Report
ITEM 114 - VALVE
CODE # Q88-249-2423-2437

FORM NPV-1 (Back)

Mark No	Material Spec No	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
HT. 51623	ASME SA564 GR. 600	Carpenter Steel	Disc
HT. 13405	ASME SA479 TY316	Carpenter Steel	Bonnet
HT. 356756	ASME SA479 TY316	Carpenter Steel	Union Nut

2. Hydrostatic test 5400 psi. Over Differential test pressure 4000 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1977.
 Addenda 578 Code Case No N/A Date November 14, 1988
 Signed DRAGON VALVES by R. E. Snyder
(In Certificate Holder)
 Our ASME Certificate of Authorization No. N-1033 to use the N symbol expires 5-6-90
(In) (Date)

CERTIFICATION OF DESIGN

Design information on file at Baltimore Gas & Electric Co. (See Line 2)
 Stress analysis report (Class 1 only) on file at N/A
 Design specifications certified by (1) Robert F. Ash
 PE State MD Reg. No. 9198
 Stress analysis certified by (1) N/A
 PE State MD Reg. No. 9198
 (1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by U.S.B. INSP. & INS. CO. of HARTFORD, CT. have inspected the pump, or valve, described in this Data Report on 11/14/88 to 10% I and state that to the best of my knowledge and belief the NCertificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.
 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 a loss of any kind arising from or connected with this inspection.
 Date 11/14/88 in CT
R. E. Snyder (Inspector) C. A. K. H. (Notary Public and State Seal)

S.O. IC868-CODE DATA REPORT
 ITEM 114-VALVE
000-2419-2423-2437

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

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Sulzer Bingham Pumps Inc. 2800 N.W. Front Ave. Portland, OR 97210
(Name and address of NPT Certificate holder)

2. Manufactured for Baltimore Gas & Electric Baltimore, Maryland 21203
(Name and address of purchaser)

3. Location of installation Calvert Cliffs Nuclear Power Station
(Name and address)

4. Type D24609 Rev. B SA 351 CF3 70,000 N/A 1990
(Drawing no.) (Mat'l. spec. no.) (Name strength) (Class) (Year built)

5. ASME Code, Section III: 1983 Summer 1983 1 N/A
(Edition) (Addenda date) (Class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) _____ Revision _____ Date _____
(no.)

7. Remarks: Seal Housing HT# L9552

SBP Material Code Q89-1113 - Housing

Q89-452 - 1/4" Smls Pipe

8. Nom. thickness (in.) 4.93" Min. design thickness (in.) 1.31" Dia. ID (ft & in.) 1' 1.37" Length overall (ft & in.) 2' 2.03"

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 Number in Numerical Order
(1) <u>2214459-7</u>	<u>NB1298</u>	(26) _____	_____
(2) <u>1C868</u>	_____	(27) _____	_____
(3) _____	_____	(28) _____	_____
(4) _____	_____	(29) _____	_____
(5) _____	_____	(30) _____	_____
(6) _____	_____	(31) _____	_____
(7) _____	_____	(32) _____	_____
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(17) _____	_____	(42) _____	_____
(18) _____	_____	(43) _____	_____
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(20) _____	_____	(45) _____	_____
(21) _____	_____	(46) _____	_____
(22) _____	_____	(47) _____	_____
(23) _____	_____	(48) _____	_____
(24) _____	_____	(49) _____	_____
(25) _____	_____	(50) _____	_____

10. Design pressure 2500 psi Temp 650 °F Hydro. test pressure 3125 at temp 60
(Refer to Code Book)

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

(12/86)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2900, Fairfield, NJ 07007-2900

S.O. 1C868 - CODE DATA REPORT
ITEM 114 - SEAL HOUSING
CODE # Q89-1113
PAGE 014

FORM N-2 (back)

Mfr. Serial No. _____

CERTIFICATION OF DESIGN

Design specifications certified by R. P. Aab (when applicable) P.E. State Maryland Reg. no. 0198
 Design report certified by W. R. Bak, Jr. (when applicable) P.E. State CA Reg. no. C-11430

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Seal Housing
 conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N1655 Expires Feb. 28, 1992
 Date 2/22/90 Name Sulzer Bingham Pumps Inc. Signed Bob Faulkner
(NPT Certificate number) (Authorized signatory)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Oregon and employed by Lumbermens Mutual Casualty Company of Illinois have inspected these items described in this Data Report on 2/22/90 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. 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 2/22/90 Signed [Signature] Commissions 7112 NBPCC ID
(Authorized Inspector) (See 1, 5B, 7 and 8 and supplemental stamp on page 1 and 101)

S.O. 10368 - CODE DATA REPORT
 ITEM 114 - SEAL HOUSING
 CODE # Q 89-1113
 PAGE 015

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner/Address Baltimore Gas & Electric Company
P.O. Box 1475; Baltimore, MD 21203 Date: August 1, 1994
 Sheet: 1 of 1

2. Plant/Address Calvert Cliffs Nuclear Power Plant Unit: One NISU Ref. No.: 94-1-051
Rts. 2 & 4; Lusby, MD 20657 19302166
P.O.No., MWO No.

3. Work Performed by: Baltimore Gas & Electric Company Type Code Symbol Stamp: NONE
Rts. 2 & 4; Lusby, MD 20657 Authorization No. N/A
 Expiration Date: N/A

4. Identification of System: Startup No.: 041 System Name: Charging System ASME Sec. XI Class: Two

5. (a) Applicable Construction Code & Class: USAS B31.1 1967 Ed. thru 72 Add

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1983 Edition with Summer 83 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components: See Reverse of this Form.

7. Description of Work: Implement FCR 90-0109, replace system relief valves (1 in and smaller) with new improved design.
Re-rate system
design pressure; hydrostatic test HC-7 Piping.

8. Tests Conducted: Hydrostatic XX Pneumatic N/A Nominal Operating Pressure XX
 Pressure 225psi Test Temperature amb °F

9. Remarks/Code Cases: No Section XI examinations were performed. The above listed hydrostatic test was to
construction code requirements only. This document details the re-rating of the piping only.

Applicable Manufacturer's Data Reports to be Attached

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

Certificate of Compliance

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

Signed David W. Bacon Date August 1, 1994
Owner or Owner's Designee, Title Engineering Technician

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 Arkwright Mutual Insurance Co. of Norwood, Ma. have inspected

the components described in this Owners Report during the period 3-24-94 to 3-25-94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. 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.

Factory Mutual Engineering Association

Robert W. Lawrence Commissions NB 8226 ANI MD 647
Inspectors Signature National Board, State, and Endorsements

Date: August 8, 1994

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

Name of Component	Repaired, Replaced or Replacement	Name of Manufacture	MFG's Serial No.	National Board No	Other Identification	Year Built	ASME Code Stamped Y or N
Piping System	Replaced	Becthel	Line Class HC-7	N/A	Boric Acid Pp discharge to charging sytem piping	1975	N