



**WESTINGHOUSE**

**WESDYNE INTERNATIONAL**

**INSERVICE INSPECTION REPORT**

**OF THE**

**H.B.ROBINSON UNIT 2**

**FOR**

**CAROLINA POWER AND LIGHT COMPANY  
H.B.ROBINSON PLANT  
3581 WEST ENTRANCE ROAD  
HARTSVILLE, SOUTH CAROLINA 29551**

9509220290 950915  
PDR ADCK 05000261  
Q PDR

#9509220287

INSERVICE INSPECTION REPORT

INTERVAL        3  
PERIOD         1  
OUTAGE          3

FOR THE  
H.B.ROBINSON UNIT 2  
NUCLEAR GENERATING PLANT

FOR:

CAROLINA POWER AND LIGHT COMPANY  
H.B.ROBINSON PLANT  
3581 W ENTRANCE RD.  
HARTSVILLE, SC 29551

REPORT DATE        AUGUST 1995

COMMERCIAL SERVICE DATE: MARCH 1971

OPERATING CAPACITY: 700 MWe

PERFORMED BY:  
WESDYNE INTERNATIONAL  
WESTMORELAND INDUSTRIAL PARK III  
6011 ENTERPRISE DRIVE  
15632

## INDEX

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## FORM NIS-1 (Back)

8. Examination Dates 04/29/95 to 06/21/95 9. Inspection Interval from 02/19/92 to 02/19/2002
10. Applicable Editions of Section XI 1986 Addenda NONE
11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. SEE TABS B, C AND E OF THE 1995 ISI REPORT
12. Abstract of Conditions Noted. SEE TABS B, C AND E OF THE 1995 REPORT
13. Abstract of Corrective Measures Recommended and Taken. SEE TABS B AND F OF THE 1995 ISI REPORT

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.

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

Date 7/26/95 19 95 Signed CP&L By Thomas D. Gray  
Owner

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by The Hartford Steam Boiler Insp. and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 2-7-99 to 7-7-95, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Ramon P. Walladras Commissions TN971  
Inspector's Signature National Board, State, Province, and Endorsement

Date 7-26 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 5/23/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 Mod 1164  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by Becon Type Code Symbol Stamp N/A  
 Name  
 Authorization No. N/A  
P.O. Box 2166, Houston, TX. 77252-2166 Expiration Date N/A  
 Address
4. Identification of System Safety Injection, Residual Heat Removal
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Restraint /supports	Ebasco	N/A	N/A	N/A	1971	Replaced	N/A
Restraint /supports	Becon	N/A	N/A	N/A	1995	Replacement	N/A

7. Description of Work Install, replace, and/or modify Code Class 1 and 2 supports and restraints.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure N/A psi Test Temp. N/A °F ☐ NDE

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

## FORM NIS-2 (Back)

9. Remarks See Mod 1164 for installation, replacement and/or modification of pipe supports and  
Applicable Manufacturer's Data Reports to be attached  
restraints on Code Class 1 and 2, Seismic Category 1 Systems that have been determined to be insufficient  
when compared to the design criteria.

## CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Richard D. Weber SR. SPECIALIST Date 7/26, 1995  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Villalobos Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

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## FORM NIS-2 (Back)

9. Remarks See ESR 95-00138 for replacement of the pipe saddle with a pad-plate pipe reinforcement  
Applicable Manufacturer's Data Reports to be attached  
for Code Class 2 piping that had been determined to be insufficient by analysis when compared to the  
design criteria.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Richard A. Weber

SR. SPECIALIST

Date 7/26, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, and state that to the best of my knowledge and belief, the Owner has  
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injury or property damage or a loss of any kind arising from or connected with this inspection.

Ramon C. Villalobos

Inspector's Signature

Commissions

TN 971

National Board, State, Province, and Endorsements

Date

7/26, 19 95

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## FORM NIS-2 (Back)

9. Remarks SEE ESR #9500433 AND CR #95-01207 TURNOVER PACKAGES

Applicable Manufacturer's Data Reports to be attached

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## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Richard A. Weber SR. SPECIALIST Date 7/20, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, and state that to the best of my knowledge and belief, the Owner has  
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injury or property damage or a loss of any kind arising from or connected with this inspection.

Ramon C. Valladares Commissions TN971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

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

1. Owner: CAROLINA POWER & LIGHT COMPANY Date 7/10/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-APIS1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System CVCS CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86 CODE CASE N416-1
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPING	EBASCO	N/A	N/A	2-CH-151R-32	1971	REPLACED	NO
PIPING	MAINTENANCE	N/A	N/A	2-CH-151R-32	1995	REPLACEMENT	NO

7. Description of Work REPLACED A PORTION OF PIPE DOWNSTREAM OF CVC-348 DUE TO PIN HOLE LEAKAGE
8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ]  
 Other [ ] Pressure 110 psi Test Temp. N/A °F

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-APIS1 TURNOVER PACKAGE

Applicable Manufacturer's Data Reports to be attached

REFERENCE CODE CASE N416-1

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard Butcher SR.SPECIALIST Date 7/10, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure

Vessel Inspectors and the State or Province of TENNESSEE and employed byTHE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspectedthe components described in this Owner's Report during the period 2-7-94 to7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Valladares Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/7/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address

2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 95-AIYW1 And ESR 95-00738  
 Address Repair Organization PO NO., Job No., etc.

3. Work Performed by Maintenance Type Code Symbol Stamp N/A  
 Name  
Same As 2 Above Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System Service Water CLASS 3
5. (a) Applicable Construction Code B31.1 19 86 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86 CODE CASE N416-1
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping	Ebasco	N/A	N/A	30" N. Header	1971	Replaced	No
Piping	Maintenance	N/A	N/A	SA36 Cap	1995	Replacement	No

7. Description of Work Covered a thru wall hole with an SA36 Cap and pipe plug.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒  
 Other ☐ Pressure 41 psi Test Temp. Ambient° F

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## FORM NIS-2 (Back)

9. Remarks See WR/JO 95-AIYW1 and ESR 95-00738 Packages

Applicable Manufacturer's Data Reports to be attached

Reference Code Case N-416-1

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Robert G. DePue

SR.SPECIALIST

Date 7/7, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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.

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implied, concerning the examinations and corrective measures described in this Owner's Report.

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injury or property damage or a loss of any kind arising from or connected with this inspection.

Ramon C. Uelladares  
Inspector's Signature

Commissions

TN 971

National Board, State, Province, and Endorsements

Date

7-26

, 19

95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/10/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address

2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-AGRF1  
 Address Repair Organization PO NO., Job No., etc.

3. Work Performed by ABB CENO Type Code Symbol Stamp N/A  
 Name  
1201 RIVERFRONT PARKWAY, CHATTANOOGA, TN 37402 Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System REACTOR COOLANT CLASS 1

5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86 CODE CASE N416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CVC-312B	WESTINGHOUSE	N/A	N/A	P/N 739-997-16	1971	REPLACED	NO
CVC-312B	WESTINGHOUSE	N/A	N/A	P/N 739-997-16	1995	REPLACEMENT	NO

7. Description of Work REMOVAL AND REPLACEMENT OF SEAL CAP ON CVC-312B TO FACILITATE EXAMINATION.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure 2235 psi Test Temp. 542 °F

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AGRF1 TURNOVER PACKAGE  
Applicable Manufacturer's Data Reports to be attached  
REFERENCE CODE CASE N416-1

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed Richard B. Weber SR. SPECIALIST Date 7/10, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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.

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Armen B. Madanes Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/17/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-AGRB1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System INSTRUMENT AIR CLASS 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86 CODE CASE N416-1
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
IA-525	EBASCO	N/A	N/A	N/A	1971	REPLACED	NO
IA-525	MAINTENANCE	N/A	N/A	N/A	1995	REPLACEMENT	NO

7. Description of Work REPLACED OLD IA-525 WITH NEW VALVE.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ VT-2  
 Other ☐ Pressure N/A psi Test Temp. N/A °F

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## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AGRB1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

REFERENCE CODE CASE N416-1

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

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

Signed Richard B. Weber SR.SPECIALIST Date 7/17, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
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Amor P. Valladares Commissions 7N971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/17/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551  
 Address
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
 Authorization No. N/A  
SAME AS 2 ABOVE Expiration Date N/A  
 Address
4. Identification of System CVCS CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
BA PMP A	EBASCO	N/A	N/A	STUDS	1971	REPLACED	NO
BA PMP A	MAINTENANCE	N/A	N/A	STUDS	1995	REPLACEMENT	NO

7. Description of Work REPLACED STUDS AND NUTS DUE TO CORROSION.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EXTERNAL LEAKAGE CHECK

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## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ASEM1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber SR.SPECIALIST Date 7/17, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
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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.

Ramon P. Valladares Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/17/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address

2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-ASE11  
 Address Repair Organization PO NO., Job No., etc.

3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System CVCS CLASS 3

5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
BA TANK B	EBASCO	N/A	N/A	MANWAY BOLTS	1971	REPLACED	NO
BA TANK B	MAINTENANCE	N/A	N/A	MANWAY BOLTS	1995	REPLACEMENT	NO

7. Description of Work REPLACED MANWAY BOLTS AND GASKET DUE TO LEAKAGE.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EXTERNAL LEAK CHECK

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ASEI1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Richard B. Weber SR.SPECIALIST Date 7/17, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon B. Valladares Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/18/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-ASDY1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System CVCS CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CVC-379	EBASCO	N/A	N/A	N/A	1971	REPLACED	NO
CVC-379	MAINTENANCE	N/A	N/A	N/A	1995	REPLACEMENT	NO

7. Description of Work REPLACED DIAPHRAGM AND STUDS DUE TO BORIC ACID LEAKAGE.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EXTERNAL LEAKAGE CHECK

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ASDY1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Butler  
Owner or Owner's Designee, Title

SR.SPECIALIST

Date 7/18, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Valladares  
Inspector's Signature

Commissions

TN 971

National Board, State, Province, and Endorsements

Date 7-26, 19 95

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ASDR1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Richard B. Weber SR.SPECIALIST Date 7/18, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon B. Valladares Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/17/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD. HARTSVILLE SC 29551 WR/JO 94-ASDL1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System CVCS CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
BA FILTER	EBASCO	N/A	N/A	HEAD NUTS	1971	REPLACED	NO
BA FILTER	MAINTENANCE	N/A	N/A	HEAD NUTS	1995	REPLACEMENT	NO

7. Description of Work REPLACED THE HEAD FLANGE NUTS DUE TO BORIC ACID LEAKAGE.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☒ Pressure ☐ psi Test Temp. ☐ °F  
 EXTERNAL LEAK CHECK

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ASDL1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Witter SR. SPECIALISTDate 7/17, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Valladares  
Inspector's Signature

Commissions TN 971  
National Board, State, Province, and Endorsements

Date 7-26, 19 95

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ASDH1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. 1 N/AExpiration Date N/ASigned Richard B. Weber  
Owner or Owner's Designee, Title

SR.SPECIALIST

Date 7/18, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon B. Valladares  
Inspector's Signature

Commissions

TN971  
National Board, State, Province, and EndorsementsDate 7-26, 19 95

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ARUN1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber SR.SPECIALISTDate 7/18, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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.

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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 or a loss of any kind arising from or connected with this inspection.

Ramon C Valladares  
Inspector's Signature

Commissions

TN971  
National Board, State, Province, and Endorsements

Date 7-26, 19 95

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ARGL1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Richard B. Weber SR.SPECIALIST Date 7/18, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Valladares Commissions TN971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95





## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-AQGU1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Wister SR. SPECIALISTDate 7/11, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Valladares  
Inspector's Signature

Commissions TN 971  
National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

## APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/12/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address

2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD. HARTSVILLE SC 29551 WR/JO 93-APTC2  
 Address Repair Organization PO NO., Job No., etc.

3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
 Authorization No. N/A  
SAME AS 2 ABOVE Expiration Date N/A  
 Address

4. Identification of System MAIN STEAM CLASS 2

5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	EBASCO	N/A	N/A	P/N 740-068-59	1971	REPLACED	NO
SNUBBER	MAINTENANCE	N/A	N/A	P/N 740-068-59	1993	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER #10 RESERVOIR BODY DUE TO LEAKAGE.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EXTERNAL LEAKAGE CHECK AND VT-3

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-APTC2 TURNOVER PACKAGE.  
Applicable Manufacturer's Data Reports to be attached
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed Richard B. Weber SR. SPECIALIST Date 7/12, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Valladares Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/12/95  
Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
Address

2. Plant H.B.ROBINSON Unit HBR2  
Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 93-APT82  
Address Repair Organization PO NO., Job No., etc.

3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
Name  
SAME AS 2 ABOVE Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System MAIN STEAM CLASS 2

5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	EBASCO	N/A	N/A	P/N 740-068-59	1971	REPLACED	NO
SNUBBER	MAINTENANCE	N/A	N/A	P/N 740-068-59	1993	REPLACEMENT	NO

7. Description of Work REPLACED SNUBBER #1 RESERVOIR BODY DUE TO LEAKAGE

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☒ Pressure N/A psi Test Temp. N/A °F  
EXTERNAL LEAKAGE AND VT-3

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-APT82 TURNOVER PACKAGE

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

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

Signed

Richard B. Weber

SR. SPECIALIST

Date 7/12, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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.

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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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Calladases  
Inspector's Signature

Commissions

TN 971

National Board, State, Province, and Endorsements

Date

7-26

, 19

95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/10/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address

2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 93-APLL1  
 Address Repair Organization PO NO., Job No., etc.

3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System CVCS CLASS 2

5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
NON-REGHX	EBASCO	N/A	N/A	FLANGE STUDS	1971	REPLACED	NO
NON-REGHX	MAINTENANCE	N/A	N/A	FLANGE STUDS	1993	REPLACEMENT	NO

7. Description of Work SHELL FLANGE STUDS REPLACED DUE TO BORIC ACID LEAKAGE.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☒ Pressure N/A psi Test Temp. N/A °F VISUAL

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-APLL1 TURNOVER PACKAGE  
Applicable Manufacturer's Data Reports to be attached
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed Richard Butler SR. SPECIALIST Date 7/10, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P Valladares Commissions TN971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

## APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/14/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551  
 Address WR/JO 94-APJH1  
 Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
 Authorization No. N/A  
SAME AS 2 ABOVE Expiration Date N/A  
 Address
4. Identification of System CVCS CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CVC-341	EBASCO	N/A	N/A	N/A	1971	REPLACED	NO
CVC-341	MAINTENANCE	N/A	N/A	N/A	1995	REPLACEMENT	NO

7. Description of Work REPLACED BONNET ASSY, DIAPHRAGM, STUD AND NUTS DUE TO BONNET LEAKAGE.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EXTERNAL LEAKAGE CHECK

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Richard D. Weber SR. SPECIALIST Date 7/14, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-99 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Ramon C. Valladares Commissions TN 971  
National Board, State, Province, and EndorsementsDate 7-26, 19 95

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-APIE1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. White SR. SPECIALISTDate 7/17, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Valladares  
Inspector's Signature

Commissions TN971

National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/10/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 93-ANWY1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System CVCS CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CVC-341	EBASCO	N/A	N/A	STUDS	1971	REPLACED	NO
CVC-341	MAINTENANCE	N/A	N/A	STUDS	1993	REPLACEMENT	NO

7. Description of Work REPLACED STUDS, NUTS AND DIAPHRAGM DUE TO BORIC ACID LEAKAGE.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ X  
 EXTERNAL LEAKAGE CHECK  
 Other ☐ Pressure N/A psi Test Temp. N/A °F

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-ANWY1 TURNOVER PACKAGE  
Applicable Manufacturer's Data Reports to be attached
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Richard B. White SR. SPECIALIST Date 7/10, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon B. Wallachars Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/17/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-ANNU1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
 Authorization No. N/A  
SAME AS 2 ABOVE Expiration Date N/A  
 Address
4. Identification of System SFPC CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SF PMP B	EBASCO	N/A	N/A	STUDS & NUTS	1971	REPLACED	NO
SF PMP B	MAINTENANCE	N/A	N/A	STUDS & NUTS	1995	REPLACEMENT	NO

7. Description of Work REPLACED STUDS AND NUTS AT PUMP SUCTION FLANGES DUE TO CORROSION.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EXTERNAL LEAK CHECK

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ANNU1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned [Signature]  
Owner or Owner's Designee, Title

SR.SPECIALIST

Date 7/17, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's SignatureCommissions TN 971

National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/10/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 93-ANHN1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System CVCS CLASS 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FIC-154	EBASCO	N/A	N/A	STUDS	1971	REPLACED	NO
FIC-154	MAINTENANCE	N/A	N/A	STUDS	1993	REPLACEMENT	NO

7. Description of Work REPLACED STUDS DUE TO LEAKAGE
8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ X ]  
 EXTERNAL LEAKAGE CHECK  
 Other [ ] Pressure N/A psi Test Temp. N/A °F

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-ANHN1 TURNOVER PACKAGE

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Miller SR. SPECIALISTDate 7/10, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon Balladares Commissions  
Inspector's Signature

TN971  
National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/17/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602  
 Address  
 Sheet 1 of 1
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551  
 Address  
WR/JO 92-ANCN1  
 Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
 Authorization No. N/A  
SAME AS 2 ABOVE Expiration Date N/A  
 Address
4. Identification of System CVCS CLASS 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CVC-275B	EBASCO	N/A	N/A	DIAPHRAGM	1971	REPLACED	NO
CVC-275B	MAINTENANCE	N/A	N/A	DIAPHRAGM	1995	REPLACEMENT	NO

7. Description of Work REPLACED BONNET AND DIAPHRAGM ASSEMBLY.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EXTERNAL LEAKAGE CHECK

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 92-ANCN1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

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

Signed Richard A. Weber SR. SPECIALIST Date 7/17, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon B. Valladares Commissions TN971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/10/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 93-AMSM1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System CVCS CLASS 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CVC-203B	EBASCO	N/A	N/A	STUDS	1971	REPLACED	NO
CVC-203B	MAINTENANCE	N/A	N/A	STUDS	1993	REPLACEMENT	NO

7. Description of Work REPLACED VALVE STUDS AFTER DISASSEMBLY FOR BENCH TESTING AND REINSTALLATION.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☒ Pressure N/A psi Test Temp. N/A °F  
 BENCH TESTED

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-AMSM1 TURNOVER PACKAGE.  
Applicable Manufacturer's Data Reports to be attached
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed *Richard A. White* SR.SPECIALIST Date 7/10, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

*Ramon B. Valladares* Commissions TN971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/18/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-AMJT1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System MAIN STEAM CLASS 2
5. (a) Applicable Construction Code SEC.III 19 80 Edition, W80 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STM.GEN C	WESTINGHOUSE	N/A	N/A	N/A	1983	REPLACED	YES
STM.GEN C	MAINTENANCE	N/A	N/A	N/A	1995	REPLACEMENT	YES

7. Description of Work REPLACED STEAM GEN. C HAND HOLE COVER STUDS (2) AND 12 LOCKING PLATES.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ VT-2  
 Other ☐ Pressure ☐ psi Test Temp. ☐ °F

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AMJT1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

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## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned [Signature]  
Owner or Owner's Designee, Title

SR.SPECIALIST

Date 7/18, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions

TD 971  
National Board, State, Province, and EndorsementsDate 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/18/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-AMJS1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System MAIN STEAM CLASS 2
5. (a) Applicable Construction Code SEC. III 19 80 Edition, W80 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
STM.GEN.B	WESTINGHOUSE	N/A	N/A	N/A	1983	REPLACED	YES
STM.GEN.B	MAINTENANCE	N/A	N/A	N/A	1995	REPLACEMENT	YES

7. Description of Work REPLACED ONE STEAM GENERATOR HAND HOLE STUD, 12 LOCKING PLATES & 6 GASKETS.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☒ Pressure N/A psi Test Temp. N/A ° F  
 EXTERNAL LEAK CHECK

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AMJS1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber  
Owner or Owner's Designee, Title

SR.SPECIALIST

Date 7/18, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Valladares  
Inspector's Signature

Commissions

TS971  
National Board, State, Province, and Endorsements

Date

7-26

, 19

95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/10/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address

2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 93-AMHW3  
 Address Repair Organization PO NO., Job No., etc.

3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System REACTOR COOLANT CLASS 1
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CVC-312B	WESTINGHOUSE	N/A	N/A	P/N 739-997-16	1971	REPLACED	NO
CVC-312B	WESTINGHOUSE	N/A	N/A	P/N 739-997-16	1993	REPLACEMENT	NO

7. Description of Work INSTALLED SEAL RING OVER BONNET STUDS (OPTIONAL DESIGN) DUE TO LEAKAGE.
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure 2375 psi Test Temp. >500 °F

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

## FORM NIS-2 (Back)

9. Remarks SEE WRE/JO 93-AMHW3 TURNOVER PACKAGE

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Quibrock B. Weber SR. SPECIALISTDate 7/10, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-99 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon B. Valladares

Inspector's Signature

Commissions

TN971

National Board, State, Province, and Endorsements

Date

7-26

, 19

95

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-AMHL4 TURNOVER PACKAGE  
Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Richard B. Weber SR. SPECIALIST Date 7/10, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C Valladares Commissions TN971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/19/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address  
 2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-ALCM1  
 Address Repair Organization PO NO., Job No., etc.  
 3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System CCW CLASS 2  
 5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CC-716B	EBASCO	N/A	N/A	STUDS & NUTS	1971	REPLACED	NO
CC-716B	MAINTENANCE	N/A	N/A	STUDS & NUTS	1995	REPLACEMENT	NO

7. Description of Work REPLACED BONNET STUDS AND NUTS.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EXTERNAL LEAKAGE CHECK

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AMA11 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber SR.SPECIALISTDate 7/19, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Valladares  
Inspector's Signature

Commissions

TN971

National Board, State, Province, and Endorsements

Date

7-26, 19 95

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-AMGB5 TURNOVER PACKAGE  
Applicable Manufacturer's Data Reports to be attached
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization No. \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed Richard B. Weber SR. SPECIALIST Date 7/10, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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.

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Ramon C. Valladares Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-AMEL1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard Butler SR.SPECIALISTDate 7/17, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95 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.

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Ramon C Valladares  
Inspector's Signature

Commissions TN971  
National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/17/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address

2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-AMBQ1  
 Address Repair Organization PO NO., Job No., etc.

3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System CONDENSATE CLASS 3

5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS TANK	EBASCO	N/A	N/A	PIPING	1971	REPLACED	NO
CS TANK	MAINTENANCE	N/A	N/A	PIPING	1995	REPLACEMENT	NO

7. Description of Work REPLACED ELBOW AND PIPE ON FILL LINE TO CS TANK DUE TO IN LEAKAGE.

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ]  
 Other [ X ] Pressure N/A psi Test Temp. N/A °F

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AMBQ1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber SR.SPECIALISTDate 7/17, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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.

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Ramon P. Velazquez  
Inspector's Signature

Commissions

TN 971

National Board, State, Province, and Endorsements

Date

7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/17/95  
Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602  
Address
2. Plant H.B.ROBINSON Unit HBR2  
Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551  
Address  
WR/JO 93-AKIC1  
Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
Name  
Authorization No. N/A  
SAME AS 2 ABOVE Expiration Date N/A  
Address
4. Identification of System RHR CLASS 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-757C	EBASCO	N/A	N/A	N/A	1971	REPLACED	NO
RHR-757C	MAINTENANCE	N/A	N/A	N/A	1995	REPLACEMENT	NO

7. Description of Work REPLACED DISC, STEM, PACKING, WEDGES AND PIN DUE TO VALVE BEING HARD TO OPERATE.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
Other ☒ Pressure N/A psi Test Temp. N/A °F  
EXTERNAL LEAKAGE CHECK

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-AKIC1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber  
Owner or Owner's Designee, Title

SR.SPECIALIST

Date 7/17, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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.

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Ramon C. Villadarias  
Inspector's Signature

Commissions

TN971

National Board, State, Province, and Endorsements

Date

7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/18/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-AIYW4  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System MAIN STEAM CLASS 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-261C	EBASCO	N/A	N/A	N/A	1971	REPAIRED	NO

7. Description of Work REPAIRED CRACKS IN BUSHING SLEEVE.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EST-086

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AIYW4 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Butler  
Owner or Owner's Designee, Title

SR.SPECIALIST

Date 7/18, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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.

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Ramon P. Villadamas

Inspector's Signature

Commissions

TN 971

National Board, State, Province, and Endorsements

Date

7-26

, 19

95

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-AIYJ1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Richard Butler SR. SPECIALIST Date 7/18, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Valladares Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/13/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-AGSQ1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
 Authorization No. N/A  
SAME AS 2 ABOVE Expiration Date N/A  
 Address
4. Identification of System SIS CLASS 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SUPPORT	EBASCO	N/A	N/A	LINE SI-110	1971	REPAIRED	NO

7. Description of Work REMOVED U-BOLT AND DISCARDED IT DUE TO SEVERE CORROSION.(BETWEEN SI-867A&B)
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N/A  
 Other ☐ Pressure N/A psi Test Temp. N/A °F

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AGSQ1 TURNOVER PACKAGE. (REF. MEMO NED-R-6942)

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Richard B. Weber SR. SPECIALIST Date 7/13, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Uelladaus commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/18/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 95-AGA1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System CVCS CLASS 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SNUBBER	EBASCO	N/A	N/A	#26	1971	REPAIRED	NO

7. Description of Work
- REPAIRED BASE PLATE SCREWS. (3)

8. Tests Conducted: Hydrostatic
- ☐
- Pneumatic
- ☐
- Nominal Operating Pressure
- ☐

Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EST-032

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 95-AGAJ1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard A. White  
Owner or Owner's Designee, Title

SR. SPECIALIST

Date 7/18, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon O. Valladares  
Inspector's Signature

Commissions

TN 971

National Board, State, Province, and Endorsements

Date

7-26, 19 95

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 95-AGAA1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber

SR. SPECIALIST

Date 7/18, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Carmon O. Madanes

Inspector's Signature

Commissions

TN971

National Board, State, Province, and Endorsements

Date

7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/18/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 94-AFZH1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System CVCS CLASS 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
TCV-143	EBASCO	N/A	N/A	N/A	1971	REPLACED	NO
TCV-143	MAINTENANCE	N/A	N/A	N/A	1995	REPLACEMENT	NO

7. Description of Work REPLACED STUDS, NUTS, O-RINGS AND GASKETS DUE TO LEAKAGE.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☒ Pressure N/A psi Test Temp. N/A °F  
 STROKE CHECK & OST-104

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AFZH1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber SR. SPECIALISTDate 7/18, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Valladares  
Inspector's Signature

Commissions

TN 971  
National Board, State, Province, and EndorsementsDate 7-26, 19 95

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 95-AFLE1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. White SR. SPECIALIST Date 7/19, 1995

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Valladares Commissions TN 971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 1995

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/19/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 95-AFKP1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System RC PUMP C PRESS.TAP FLANGES (2), SEAL INJ. FLANGE (1) AND CCW FLANGE (1)

5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RC PMP C	WESTINGHOUSE	N/A	N/A	STUDS & NUTS	1971	REPLACED	NO
RC PMP C	MAINTENANCE	N/A	N/A	STUDS & NUTS	1995	REPLACEMENT	NO

7. Description of Work REPLACED STUDS & NUTS FOR FLANGES REFERENCED IN ITEM 4 ABOVE DUE TO LEAKAGE.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ VT-2  
 Other ☐ Pressure N/A psi Test Temp. N/A °F

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 95-AFKP1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber  
Owner or Owner's Designee, Title

SR. SPECIALIST

Date 7/19, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Valladares  
Inspector's Signature

Commissions

TN921

National Board, State, Province, and Endorsements

Date 7-26, 19 95

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AFI11 TURNOVER PACKAGE

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

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

Signed Richard B. Weber SR. SPECIALIST Date 7/12, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-94 <sup>RV92695</sup> 95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon B. Valladares Commissions TN971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AERU1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber  
Owner or Owner's Designee, Title

SR.SPECIALIST

Date 7/12, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon B. Valladares  
Inspector's Signature

Commissions

TN 971  
National Board, State, Province, and EndorsementsDate 7-26, 19 95

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

As Required by the Provisions of the ASME Code Section XI

1.	Owner <u>CAROLINA POWER &amp; LIGHT COMPANY</u> Name <u>411 FAYETTEVILLE ST., RALEIGH, NC 27602</u> Address	Date <u>7/12/95</u>
2.	Plant <u>H.B.ROBINSON</u> Name <u>3581 W ENTRANCE RD HARTSVILLE SC 29551</u> Address	Sheet <u>1</u> of <u>1</u>  Unit <u>HBR2</u>  <u>WR/JO 93-ADPR1</u> Repair Organization PO NO., Job No., etc.
3.	Work Performed by <u>MAINTENANCE</u> Name <u>SAME AS 2 ABOVE</u> Address	Type Code Symbol Stamp <u>N/A</u>  Authorization No. <u>N/A</u>  Expiration Date <u>N/A</u>

4. Identification of System CCW CLASS 3

5. (a) Applicable Construction Code B31.1 19 67 Edition N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
TCV-144	EBASCO	N/A	N/A	STUDS & NUTS	1971	REPLACED	NO
TCV-144	MAINTENANCE	N/A	N/A	STUDS & NUTS	1993	REPLACEMENT	NO

7. Description of Work REPLACED STUDS AND NUTS AFTER VALVE DISASSEMBLY FOR INSPECTION.

8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ ]

Other [ X ] Pressure N/A psi Test Temp. N/A ° F  
SEAT LEAKAGE CHECK

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93-ADPR1 TURNOVER PACKAGE

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Weber  
Owner or Owner's Designee, Title

SR.SPECIALIST

Date 7/12, 1995

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Valladares  
Inspector's Signature

Commissions

TN 971

National Board, State, Province, and Endorsements

Date

7-26

, 19

95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/17/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD HARTSVILLE SC 29551 WR/JO 95-ADB2  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A

4. Identification of System SERVICE WATER CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SW-204	EBASCO	N/A	N/A	STUDS & NUTS	1971	REPLACED	NO
SW-204	MAINTENANCE	N/A	N/A	STUDS & NUTS	1995	REPLACEMENT	NO

7. Description of Work REPLACED STUDS, NUTS AND GASKET DUE TO LEAKAGE.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EXTERNAL LEAKAGE CHECK

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 95-ADB2 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. White  
Owner or Owner's Designee, Title

SR. SPECIALIST

Date 7/17, 19 95

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Valladares  
Inspector's Signature

Commissions

TN971

National Board, State, Province, and Endorsements

Date

7-26, 19 95

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ACW11 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard A. Miller SR. SPECIALISTDate 7/12, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-99 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Villalobos  
Inspector's Signature

Commissions

TN 871

National Board, State, Province, and Endorsements

Date

7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/12/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 WEST ENTRANCE ROAD, HARTSVILLE, SC 29550 WR/JO 91-ACUU1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System DIESEL FUEL OIL CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PIPING	EBASCO	N/A	N/A	P/N 716-877-92	1971	REPLACED	NO
PIPING	MAINTENANCE	N/A	N/A	P/N 716-877-92	1994	REPLACEMENT	NO

7. Description of Work CUT OUT AND REPLACED TEE LOCATED ABOVE FO-25B DUE TO OIL LEAKAGE
8. Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure [ X]  
 Other [ ] Pressure OPERATING psi Test Temp.AMBIENT ° F

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 91-ACUU1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Baker SR. SPECIALISTDate 7/12, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Valladares  
Inspector's Signature

Commissions

TR 971

National Board, State, Province, and Endorsements

Date

7-26

, 19

95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/18/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 WEST ENTRANCE ROAD, HARTSVILLE, SC 29550 WR/JO 94-ACQE1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System FEEDWATER CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FW-6A	EBASCO	N/A	N/A	BONNET	1971	REPLACED	NO
FW-6A	MAINTENANCE	N/A	N/A	BONNET	1995	REPLACEMENT	NO

7. Description of Work REPLACED BONNET, RING, SLEEVE AND PACKING DUE TO BODY TO BONNET LEAKAGE.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ VT-2  
 Other ☐ Pressure psi Test Temp. °F

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ACQE1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. 1 N/AExpiration Date N/ASigned Richard S. Weber SR.SPECIALISTDate 7/18, 1995

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Armen B. Vellazquez  
Inspector's Signature

Commissions

TA 971  
National Board, State, Province, and Endorsements

Date 7-26, 1995

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 93=ABSF1 TURNOVER PACKAGE.

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. White SR.SPECIALIST Date 7/14, 1995  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure  
Vessel Inspectors and the State or Province of TENNESSEE and employed by  
THE HARTFORD STEAM BOILER INSP.& INS. CO. of HARTFORD, CONNECTICUT have inspected  
the components described in this Owner's Report during the period 2-7-94 to  
7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ormon P. Halliwell  
Inspector's Signature

Commissions

TW971

National Board, State, Province, and Endorsements

Date

7-26, 1995

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/11/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 WEST ENTRANCE ROAD, HARTSVILLE, SC 29550 WR/JO 94-ABAB1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System CCW CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FLANGE	EBASCO	N/A	N/A	STUDS	1971	REPLACED	NO
FLANGE	MAINTENANCE	N/A	N/A	STUDS	1994	REPLACEMENT	NO

7. Description of Work REPLACED STUDS AND NUTS IN FLANGE DUE TO INADEQUATE THREAD ENGAGEMENT IN NUTS
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ LEAKAGE CHECK  
 Other ☐ Pressure N/A psi Test Temp. N/A

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



## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-ABAB1 TURNOVER PACKAGEApplicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Richard B. Weber SR. SPECIALIST Date 7/11, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon P. Valladares Commissions TN971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/13/95  
Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
Address
2. Plant H.B.ROBINSON Unit HBR2  
Name  
3581 WEST ENTRANCE ROAD, HARTSVILLE, SC 29550 WR/JO 94-AAEE1  
Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
Name  
SAME AS 2 ABOVE Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System CVCS CLASS 3
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CVC-332	EBASCO	N/A	N/A	DIAPHRAGM	1971	REPLACED	NO
CVC-332	MAINTENANCE	N/A	N/A	DIAPHRAGM	1994	REPLACEMENT	NO

7. Description of Work REPLACED DIAPHRAGM AND BONNET DUE TO LEAKAGE.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ VT-2  
Other ☐ Pressure N/A psi Test Temp. N/A °F

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AAEE1 TURNOVER PACKAGE.  
Applicable Manufacturer's Data Reports to be attached
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Richard B. White SR. SPECIALIST Date 7/13, 19 95  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-94 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C. Villadarias Commissions TN971  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-26, 19 95

1986 Edition

APPENDIX II - MANDATORY

Form NIS-2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner CAROLINA POWER & LIGHT COMPANY Date 7/12/95  
 Name  
411 FAYETTEVILLE ST., RALEIGH, NC 27602 Sheet 1 of 1  
 Address
2. Plant H.B.ROBINSON Unit HBR2  
 Name  
3581 W ENTRANCE RD, HARTSVILLE SC 29551 WR/JO 94-AADQ1  
 Address Repair Organization PO NO., Job No., etc.
3. Work Performed by MAINTENANCE Type Code Symbol Stamp N/A  
 Name  
SAME AS 2 ABOVE Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System CVCS CLASS 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FCV-113B	EBASCO	N/A	N/A	DIAPHRAGM	1971	REPLACED	NO
FCV-113B	MAINTENANCE	N/A	N/A	DIAPHRAGM	1994	REPLACEMENT	NO

7. Description of Work REPLACED DIAPHRAGM, O-RINGS, SPINDLE AND DAMAGED INSPECTION PLUG.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☒ Pressure N/A psi Test Temp. N/A °F  
 EXTERNAL LEAK CHECK

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

## FORM NIS-2 (Back)

9. Remarks SEE WR/JO 94-AADQ1 TURNOVER PACKAGE

Applicable Manufacturer's Data Reports to be attached

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT  
repair or replacement

conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Richard B. Wiley SR. SPECIALISTDate 7/12, 19 95

Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE and employed by THE HARTFORD STEAM BOILER INSP. & INS. CO. of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period 2-7-89 to 7-7-95, 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 Inspectors or 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 or a loss of any kind arising from or connected with this inspection.

Ramon C Valladares  
Inspector's Signature

Commissions

TN 971  
National Board, State, Province, and EndorsementsDate 7-26, 19 95

N-308

3. Unit 2  
 4. Owner Certificate of Authorization: N/A  
 5. Commercial Service Date: 3-07-71  
 6. National Board No. N/A

Page 56 of 56

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
**As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Company Date 2/14/91  
P. O. Box 1551 Raleigh, NC 27602 Sheet 1 of 1
2. Plant H. B. Robinson Hwy 151 & SC 23 Unit HBR2  
Hartsville, SC 29550
3. Work Performed by Robinson Mod Projects (NED) MOD 994  
Same as 2 Repair Organization P.O. No., Job No., etc.
4. Identification of System Service Water
5. (a) Applicable Construction Code B31.1 19 67 Edition N/A Addenda, Code Cases N/A  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977 & 1978 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfr. Ser. No.	Net L. Bd. No.	CRN No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping	NED	N/A	N/A	N/A	N/A	1990	New	N/A
Valves	NED	N/A	N/A	N/A	N/A	1990	New	N/A

7. Description of Work Addition of service water piping & valves to new WCCU's
8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐  
 Pressure 165 psi Test Temp. > 50 °F
9. Remarks Mod 994 Turnover Package  
 (Applicable Manufacturer's Data Reports to be attached)

**CERTIFICATE OF COMPLIANCE**

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

Signed Richard B. Weber Jr. Specialist 12/9 19 94  
 (Owner or Owner's Designee) Title Date

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TENNESSEE, employed by HSBICI Co. of HARTFORD CT have inspected the Modification described in this Report on 10-3 4-26 19 90  
 (Repairs or Replacements) Date of Inspection

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair 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 Ramon P. Valladares 12-13-94 Commissions IN 971  
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in Items 1 through 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.

CAROLINA POWER & LIGHT COMPANY  
H. B. ROBINSON UNIT #2  
INTERVAL 3 - PERIOD 1 - OUTAGE 3  
EXAMINATION SUMMARY

**INTRODUCTION**

An inservice examination of Class 1 and 2 components was conducted at H. B. Robinson Unit 2 in May of 1995. The examinations were performed in accordance with the program plan located under Tab C of this Final Report. Based on the fact that this was the third outage of the first period, and a request for relief was granted to defer remote examinations of the reactor vessel to the end of the interval, the ISI program was extremely limited in scope as most examinations were performed during the previous two outages.

The program plan for this outage was derived from the Inservice Ten Year Inspection Plan. This plan incorporates the ASME Code Section XI requirements defined in the 1986 Edition and the Carolina Power & Light, H. B. Robinson Technical Specification Section 4.2.

This report completes the first periods examination requirements for the third ten year interval.

**RESULTS**

Feedwater nozzles to reducers to elbows including base metal on loops A, B and C ultrasonic examinations produced I.D. geometric indications along with non-metallic inclusions which were detected during the previous refueling outage and remained unchanged. Additionally, supplemental examinations were performed to detect flaw tip-diffracted responses and no tips were observed.

Reactor Coolant Pump "C" Ultrasonic examination of the main flange studs produced no recordable indications. However, due to leakage from smaller flanges adjacent to the pump studs, 11 main flange studs required replacement due to gross corrosion effects.

The 40 month pressure tests for class 2 and 3 systems were completed and are tabulated by engineering surveillance test number and completion date for the first period under Tab E along with the refueling outage pressure test required for the class 1 system and is identified by refueling outage number. These pressure tests revealed leakages only at mechanical joints and were corrected as required by the normal maintenance processes.

EXAMINATION PROGRAM PLAN  
FOR  
CAROLINA POWER AND LIGHT COMPANY  
H.B.ROBINSON UNIT #2  
INSERVICE INSPECTION

INTERVAL-3

PERIOD-1

OUTAGE-3

ALL ITEMS AND AREAS LISTED BELOW ARE TO BE EXAMINED AS INDICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 1986 EDITION OF SECTION XI TO THE EXTENT PRACTICAL WITH THE ACCESS PROVIDED AND THE LIMITATIONS OF COMPONENT GEOMETRY.

<u>ITEM</u>	<u>X-2500-1</u>	<u>EXAMINATION AREA</u>	<u>UT</u>	<u>SURF</u>	<u>VT</u>	<u>CAL BLK</u>	<u>SKETCH</u>
1.	B6.180	RC PUMP C STUDS 1 THRU 24	SP-1031	-	-	CPL/62	144
2.	B15.10 TO B15.70	PRESSURE RETAINING COMPONENTS	-	-	EST-083	N/A	N/A
3.	C5.51&52	A S/G FW NOZZLE WELD A	SP-1344/NDEP-301	-	-	CPL/45	215
<u>AUGMENTED EXAMINATIONS</u>							
4.	N/A	FEEDWATER NOZZLES TO REDUCERS TO ELBOWS INCLUDING BASE METAL ON LOOPS A, B & C.	SP-1351	-	-	CPL/54& CPL/57	215 216& 217



**CPL-144**

**&**

**SPARE**

**R.C. PUMP**

**MAIN FLANGE STUDS**

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9509220290-01

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## NEW CODES

AA	RA	DKT	TASK	F2	DESCRIPTION
AA	RA	DKT	TASK	F2	DESCRIPTION: _____
AA	RA	DKT	TASK	F2	DESCRIPTION: _____
AA	RA	DKT	TASK	F2	DESCRIPTION: _____
AA	RA	DKT	TASK	F2	DESCRIPTION: _____
AA	RA	DKT	TASK	F2	DESCRIPTION: _____
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## PRIMARY FILE LOCATION/LEVEL

FCEN	F1	F2	F3
_____	_____	_____	_____

DSB #:

## NOTES/SPECIAL INSTRUCTIONS

INDEXER QC DDC

Generate New Label

Generate New RIDS Sheet

Encl Contains Prop Info

Refilm: PDR, CF PROP

Encl Contains Foldout Pages

Do Not Refilm

## NUCLEAR DOCUMENTS SYSTEM

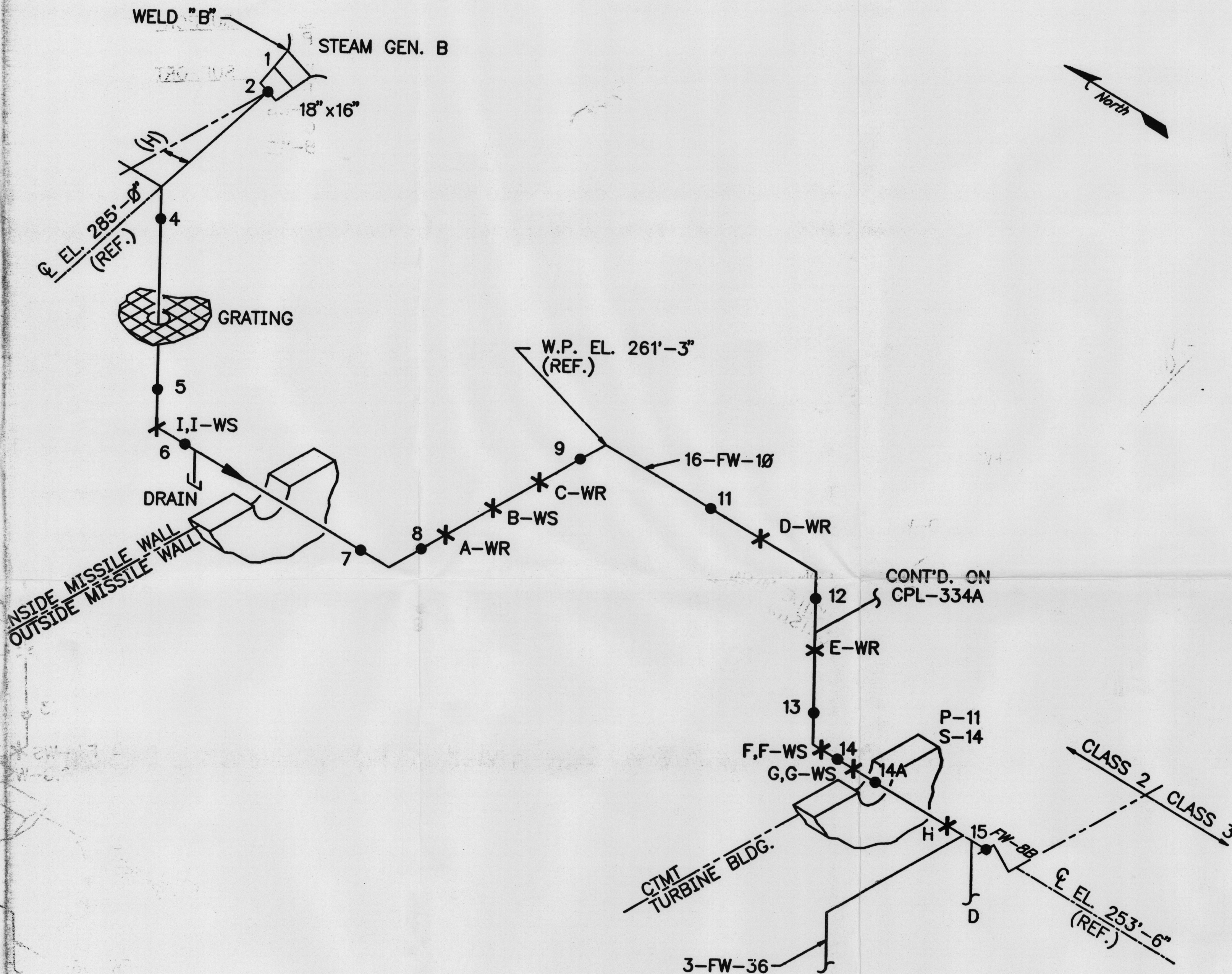


ADMIN: \_\_\_\_\_

RIDS: \_\_\_\_\_

REF: 2 06/22/88





SPRING SUPPORT  
B,I  
WELDED SUPPORT  
I-WS  
F-WS  
G-WS  
B-WS

NOTES:  
1.  $\blacktriangleright$  = DATUM POINT REFERENCE  
2. WR = WHIP RESTRAINT

REF. DWGS.  
G-190206, 207  
G-190197 SHT. 4

INFO ONLY

9509220290-01

1	5/2/93	This drawing has been redrawn in CAD and reflects the current as-built condition. DER 93-887	DME	DME	SKB	DLD
REV	DATE	DESCRIPTION	DWN	DSN	CHK	DPE

PROFESSIONAL ENGINEER: \_\_\_\_\_

QUALITY LEVEL: **SAFETY RELATED**

CAROLINA POWER & LIGHT COMPANY  
NUCLEAR ENGINEERING DEPARTMENT

PLANT: ROBINSON NUCLEAR PROJECT - UNIT 2

TITLE: \_\_\_\_\_

CP&L

SCALE: NONE



[illegible]

[illegible]

WESTINGHOUSE NUCLEAR SERVICE DIVISION INSPECTION SERVICES						PLANT <b>H.B. ROBINSON</b>		UNIT <b>2</b>		SKETCH <b>CPL- 216</b>		
<b>WELD ULTRASONIC EXAMINATION INSERVICE</b>						SYST/COMP. <b>LOOP "B" FEEDWATER</b>		PROCEDURE <b>CPL-ISI-207 REV. O</b>				
						EXAMINER (LEVEL II) <i>Thomas A. Schaefer Sr. II Paul A. Wright LIII</i>		DATE <b>5-2-95</b>				
EQUIPMENT	TRANSducer	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5				CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8				CALIBRATION CHECK
INST. S/N <b>SONIC 136 136-472 F</b>	S/N			<b>138314</b>								INITIAL TIME <b>0647</b>
	SIZE			<b>.50"</b>								
	FREQ.			<b>2.25 MHZ</b>								
	ANGLE			<b>45°L</b>								
REP. RATE <b>4</b>	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO		
REJECT <b>OFF</b>						PEAK	50% DAC LOCATIONS			PEAK	50% DAC LOCATIONS	
DAMPING <b>500</b>												
FILTER <b>2</b>												
LIN. CHECK <b>SAT.</b>												FINAL TIME <b>1704</b>
SU CABLE <b>6' BNC-MCD</b>												CAL. BLOCK <b>CPL / 57</b>
COUPLANT <b>ULTEAGEL II 092131</b>	CAL. GAIN			<b>39.4 dB</b>								THICKNESS <b>1.158"</b> TEMP. <b>71°F / *2278</b>
WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION				EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS			REMARKS
			2	5	7/8	0			NI	NRI	RI	
<b>1</b>	<b>83°F</b>	<b>No</b>	<b>Yes</b>	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>NONE</b>	<b>BLENDED</b>	<input checked="" type="checkbox"/>			<b>①</b>
<b>① NOTE: SUPPLEMENTAL EXAM. PERFORMED IN THE WELD EXAM, VOLUME UTILIZING L-WAVE TECHNIQUE TO DETECT FLAW TIP-DIFFRACTED RESPONSES. - NO TIPS OBSERVED AT TIME OF EXAM.</b>												
<div style="float: left;"> ANII REVIEW  ANII [Signature]  DATE 5-10-95 </div> <div style="float: right;"> M. I. M. R. 5/10/95 </div>												

[illegible]



[illegible]

DATE 5-10-95

WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES  
ULTRASONIC INDICATION DATA

PLANT  
H. B. Robinson

SYST/COMP  
Loop 'B' 16" feedwater

EXAMINER (LEVEL II)  
PAUL A. WRIGHT

LINEARITY AND CAL. CHECK  
SAT

UNIT  
2

SKETCH  
CPL-216

PROCEDURE  
CPL-151-207 Rev 0.

DATE  
5-2-95

CAL. BLOCK THICKNESS  
CPL-57 1.158"

WELD NUMBER	INDICATION LENGTH		MIN. 50%		MIN. 100%		PEAK			MAX. 100%		MAX. 50%		BEAM		THICKNESS			REMARKS
	FROM	TO	SWP MP	IN. TO REF.	SWP.	IN. TO REF.	SWP MP	IN. TO REF.	± DAC AMPL.	SWP.	IN. TO REF.	SWP MP	IN. TO REF.	ANGLE	DIR.	SURF. 2	WELD	SURF. 5	
1	0-25 CCW <sup>①</sup>	0-7 CW	2.1 0.84	0.5			2.3 0.92	0.55	30%			2.4 0.96	0.65	45°S	5	0.88	0.76	0.80	①
1	0-25 CCW <sup>①</sup>	0-6 CW					3.2 1.28	1.05	20%					45°S	2	0.88	0.76	0.80	①
			Scanned while maintaining a 10% ID noise roll - Ax 46.8 dB, Circ 56.2 dB																
1	0" <sup>①</sup>	0-8"	2.7 1.08	0.85			3.4 1.36	1.05	80%			4.2 1.68	1.4	60°S	5	0.88	0.76	0.80	①②
			Scanned while maintaining a 10% ID noise roll - Ax 57.2 dB, Circ 58.8 dB.																
	① <sup>Note</sup> ② Indications referenced in previous data - dispositioned as non-metallic inclusions in 1993 after plotting, sizing and review of radiographs (1993 data package 1223-008).																		
	② observed from other side - below recordable levels.																		
	③ Scanned base material on expander for detection of thermal fatigue - none detected.																		
	Note: ① supplemental exams were performed in rest of weld exam volume utilizing 4-wave techniques to detect flaw tip-diffracted responses - no tips observed at time of exam.																		
	② Comparison of data appears consistent with previously recorded responses but no permanent L <sup>0</sup> reference point is on component, "L" measurements taken at estimated T.O.C.																		

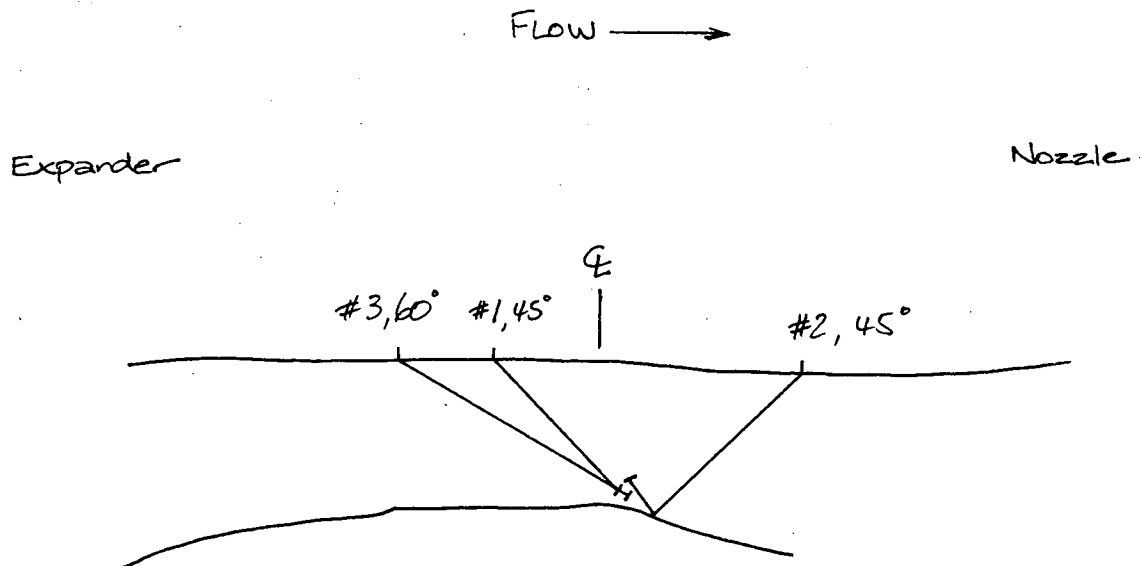
WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES

GENERAL - INDICATION DATA

PLANT H.B. Robinson UNIT 2 SKETCH CPL-216  
SYST/COMP loop "B" 16" feedwater PROCEDURE CPL-151-207 Rev 0.  
EXAMINER Paul A. Wright with Thomas A. Schaefer DATE 5-2-95  
LEVEL II

DETECTED BY U/T ✓ P/T \_\_\_\_\_ M/T \_\_\_\_\_ V/T \_\_\_\_\_ IDENT NO. Weld #1

PROVIDE SUFFICIENT INFORMATION TO DESCRIBE SIZE, LOCATION AND TYPE OF INDICATION. DESCRIBE EXTRA OR SPECIAL EQUIPMENT IF USED FOR SIZING OR REPORTING. IF NECESSARY INCLUDE SKETCH SHOWING GENERAL CONFIGURATION OF ITEM OR AREA.



ANII REVIEW  
ANII Raduladav  
DATE 5-10-95

Richard B. Weber 5/9/95

[illegible]

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WESTINGHOUSE NUCLEAR SERVICE DIVISION INSPECTION SERVICES						PLANT H.B. ROBINSON								UNIT 2		SKETCH CPL-216			
WELD ULTRASONIC EXAMINATION INSERVICE						SYST/COMP. LOOP "B" FEEDWATER								PROCEDURE CPL-IST-207 REV. O					
						EXAMINER (LEVEL II) Thomas A. Schaefer Jr. II Paul A. Wright LVIII								DATE 5-2-95					
EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0	AXIAL SCANS DIRECTIONS 2 & 5						CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8						CALIBRATION CHECK				
INST. S/N SONIC 136 136-472F	S/N		138314												INITIAL TIME				
	SIZE		.50"												0652				
	FREQ.		2.25 MHz																
	ANGLE		45°L																
REP. RATE 4	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO			SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO								
REJECT OFF						PEAK	50% DAC LOCATIONS				PEAK	50% DAC LOCATIONS							
DAMPING 500																			
FILTER 2																			
LIN. CHECK SAT.													FINAL TIME 1708						
SU CABLE 6' BNC-MCD													CAL. BLOCK CPL / 54						
COUPLANT ULTRACEL II 092131	CAL. GAIN		40.8 dB									THICKNESS 1.01 "							
												TEMP. 71°F / #2278							
WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION				EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS			REMARKS							
			2	5	7/8	0			N I	N R I	R I								
2	83°F	NO	YES	YES	NO	NO	NONE	BLENDED	X			(1)							
① NOTE: SUPPLEMENTAL EXAM PERFORMED IN THE WELD EXAM. VOLUME UTILIZING L-WAVE TECHNIQUE TO DETECT FLAW TIP-DIFFRACTED RESPONSES. - NO TIS OBSERVED AT TIME OF EXAM.																			
ANII REVIEW																			
ANII [Signature]																			
DATE 5-10-95																			
R.I. With 566-																			

WESTINGHOUSE NUCLEAR SERVICE DIVISION INSPECTION SERVICES						PLANT <b>H.B. ROBINSON</b>							UNIT <b>2</b>			SKETCH <b>CPL- 216</b>									
WELD ULTRASONIC EXAMINATION IN-SERVICE						SYST/COMP. <b>LOOP FEEDWATER</b>									PROCEDURE <b>CPL-ISI - 207 REV. D</b>										
						EXAMINER (LEVEL II) <b>Thomas A. Schaefer Jr. II Paul A. Wight LVIII</b>									DATE <b>5-2-95</b>										
EQUIPMENT	TRANSDUCER		STRAIGHT BEAM SCAN DIRECTION 0			AXIAL SCANS DIRECTIONS 2 & 5						CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8						CALIBRATION CHECK							
INST. S/N <b>SONIC 136 136-472 F</b>	S/N					<b>138311</b>												INITIAL TIME							
	SIZE					<b>.50"</b>												<b>0550</b>							
	FREQ.					<b>2.25 MHz</b>																			
	ANGLE					<b>60°L</b>																			
REP. RATE <b>4</b>	CALIBRATION REFLECTOR LOCATION		SIGNAL AMPLITUDE		SWEEP POSITION		SIGNAL AMPLITUDE		SWEEP POSITION		DISTANCE FROM SCRIBE/REF. LINE TO PEAK		50% DAC LOCATIONS		SIGNAL AMPLITUDE		SWEEP POSITION		DISTANCE FROM SCRIBE/REF. LINE TO PEAK		50% DAC LOCATIONS				
REJECT <b>OFF</b>	<b>1/4 t</b>						<b>80%</b>		<b>1.2</b>																
DAMPING <b>500</b>	<b>3/4 t</b>						<b>40%</b>		<b>3.9</b>																
FILTER <b>2</b>	<b>1 t Notch</b>						<b>15%</b>		<b>6.0</b>																
LIN. CHECK <b>SAT.</b>																							FINAL TIME <b>1708</b>		
SU CABLE <b>6' BNC-MCD</b>																							CAL. BLOCK <b>cpl / 54</b>		
COUPLANT <b>ULTRAGEL II 092131</b>	CAL. GAIN						<b>34.6 dB</b>																THICKNESS <b>1.01 "</b>		
TEMP. <b>71 °F / *2278</b>																									
WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION				EXAMINATION LIMITATIONS						CROWN CONFIGURATION		RESULTS			REMARKS							
			2	5	7/8	0									Ni	NRI	RI								
<b>2</b>	<b>83°F</b>	<b>NO</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NONE</b>						<b>BLENDED</b>		<input checked="" type="checkbox"/>			<b>(1)</b>							
(1) NOTE: SUPPLEMENTAL EXAM. PERFORMED IN THE WELD EXAM. VOLUME UTILIZING L-WAVE TECHNIQUE TO DETECT FLAW TIP-DIFFRACTED RESPONSES. - NO TIAS OBSERVED AT TIME OF EXAM.																									
ANII REVIEW																									
ANII <i>[Signature]</i>																									
DATE <b>5-10-95</b>																									
<i>A.E. Wright - 5665</i>																									

WESTINGHOUSE NUCLEAR SERVICE DIVISION INSPECTION SERVICES				PLANT H.B. ROBINSON		UNIT 2		SKETCH CPL-216				
WELD ULTRASONIC EXAMINATION INSERVICE				SYST/COMP. LOOP FEEDWATER		PROCEDURE CPL-IST-207 REV. 0						
				EXAMINER (LEVEL II) Thomas A. Schaefer Sr. II		DATE 5-2-95						
EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0	AXIAL SCANS DIRECTIONS 2 & 5				CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8				CALIBRATION CHECK	
INST. S/N SONIC 136 136-472F	S/N		43987								INITIAL TIME	
	SIZE		.50"								0700	
	FREQ.		2.25 MHz									
	ANGLE		70°L									
REP. RATE 4	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO		
REJECT OFF						PEAK	50% DAC LOCATIONS			PEAK	50% DAC LOCATIONS	
DAMPING 500												
FILTER 2												
LIN. CHECK SAT.												FINAL TIME 1657
SU CABLE 6' BNC-MCD												CAL. BLOCK CPL 154
COUPLANT ULTRAGEZ II 092131	CAL. GAIN			45.2 dB								THICKNESS 1.01" TEMP. 71°F / *2278
WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION				EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS			REMARKS
			2	5	7/8	0			NI	NRI	RI	
2	83°F	NO	YES	YES	NO	NO	NONE	BLENDED	X			①
①	NOTE: SUPPLEMENTAL EXAM. PERFORMED IN THE WELD EXAM. VOLUME UTILIZING L-WAVE TECHNIQUE TO DETECT FLAW TIP-DIFFRACTED RESPONSES. - NO TIPS OBSERVED AT TIME OF EXAM.											
ANII REVIEW												
ANII [Signature]												
DATE 5-10-95												



WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES  
ULTRASONIC INDICATION DATA

PLANT <i>H.B. Robinson</i>	UNIT <i>2</i>	SKETCH <i>CPL-216</i>
SYST/COMP <i>Loop "B" 16" Feedwater</i>		PROCEDURE <i>CPL-151-207 Rev 0</i>
EXAMINER (LEVEL II) <i>Paul A. Wright</i>		DATE <i>5-2-95</i>
LINEARITY AND CAL CHECK <i>SAT</i>		CAL BLOCK THICKNESS <i>CPL-54 1.01"</i>

WELD NUMBER	INDICATION LENGTH		MIN. 50%		MIN. 100%		PEAK			MAX. 100%		MAX. 50%		BEAM		THICKNESS			REMARKS
	FROM	TO	SWP MP	IN. TO REF.	SWP.	IN. TO REF.	SWP MP	IN. TO REF.	± DAC AMPL.	SWP.	IN. TO REF.	SWP MP	IN. TO REF.	ANGLE	DIR.	SURF. 2	WELD	SURF. 5	
2	①	①	3.4 1.36	0.9			3.8 1.52	1.05	50%			4.0 1.60	1.35	45°S	5	1.46	1.08	1.1	L' max 2.0" cu
Scanned while maintaining a 10% ID noise roll - Ax 42.6 dB, Crc 53.4 dB																			
2	①	①	4.5 1.8	1.5			4.8 1.92	1.6	65%			5.3 2.12	1.8	60°S	5	1.46	1.08	1.1	L' max 2.0" cu
Scanned while maintaining a 10% ID noise roll - Ax 48.8 dB, Crc 52.8 dB																			
① ID Root Geometry detected intermittently 360° at varying lower amplitudes.																			
② Scanned base material halfway down elbow for detection of thermal fatigue - none detected.																			
③ Indications referenced in previous data.																			
Note: Supplemental exams were performed in the weld exam volume utilizing L-wave techniques to detect flaw tip-diffracted responses - no tips observed at time of exam.																			
<div>ANTI REVIEW ANTI REVIEW DATE 5-10-95</div> <div>Richard J. W. 5/9/95</div>																			

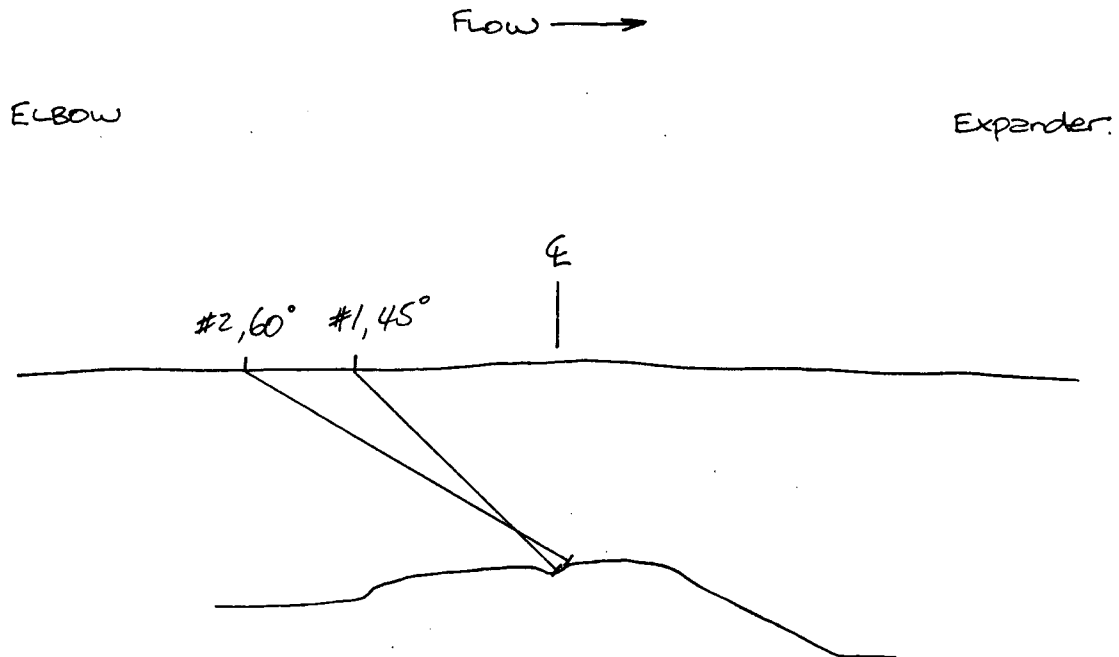
WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES

GENERAL - INDICATION DATA

PLANT H. B. Robinson UNIT 2 SKETCH CPL-216  
SYST/COMP Loop "B" 16" Feedwater PROCEDURE CPL-151-207 Rev 0  
EXAMINER Paul A. Goff Level III Thomas A. Schaefer Loz DATE 5-2-95  
LEVEL II

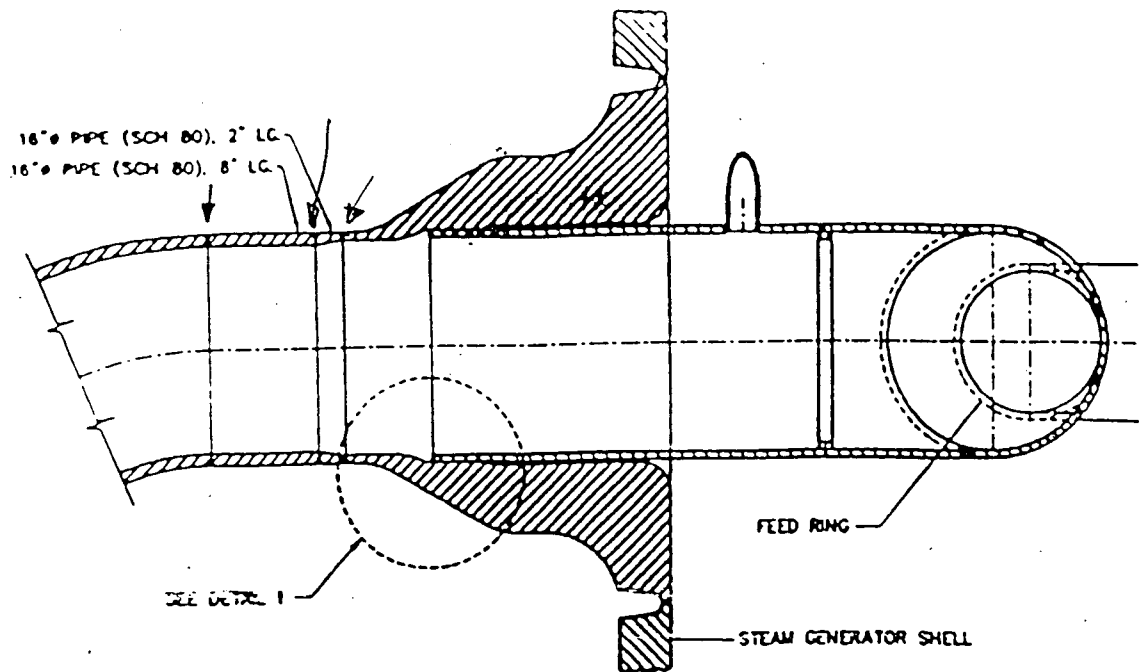
DETECTED BY U/T ✓ P/T \_\_\_\_\_ M/T \_\_\_\_\_ V/T \_\_\_\_\_ IDENT NO. Weld #2

PROVIDE SUFFICIENT INFORMATION TO DESCRIBE SIZE, LOCATION AND TYPE OF INDICATION. DESCRIBE EXTRA OR SPECIAL EQUIPMENT IF USED FOR SIZING OR REPORTING. IF NECESSARY INCLUDE SKETCH SHOWING GENERAL CONFIGURATION OF ITEM OR AREA.



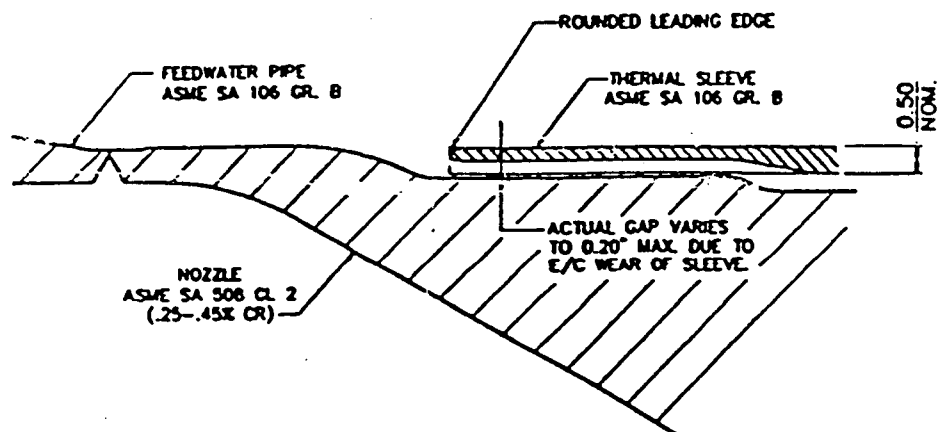
AND REVIEW  
AND APDallada  
DATE 5-10-95

Richard B. Weber 5/9/95



## Steam Generator FW Nozzle

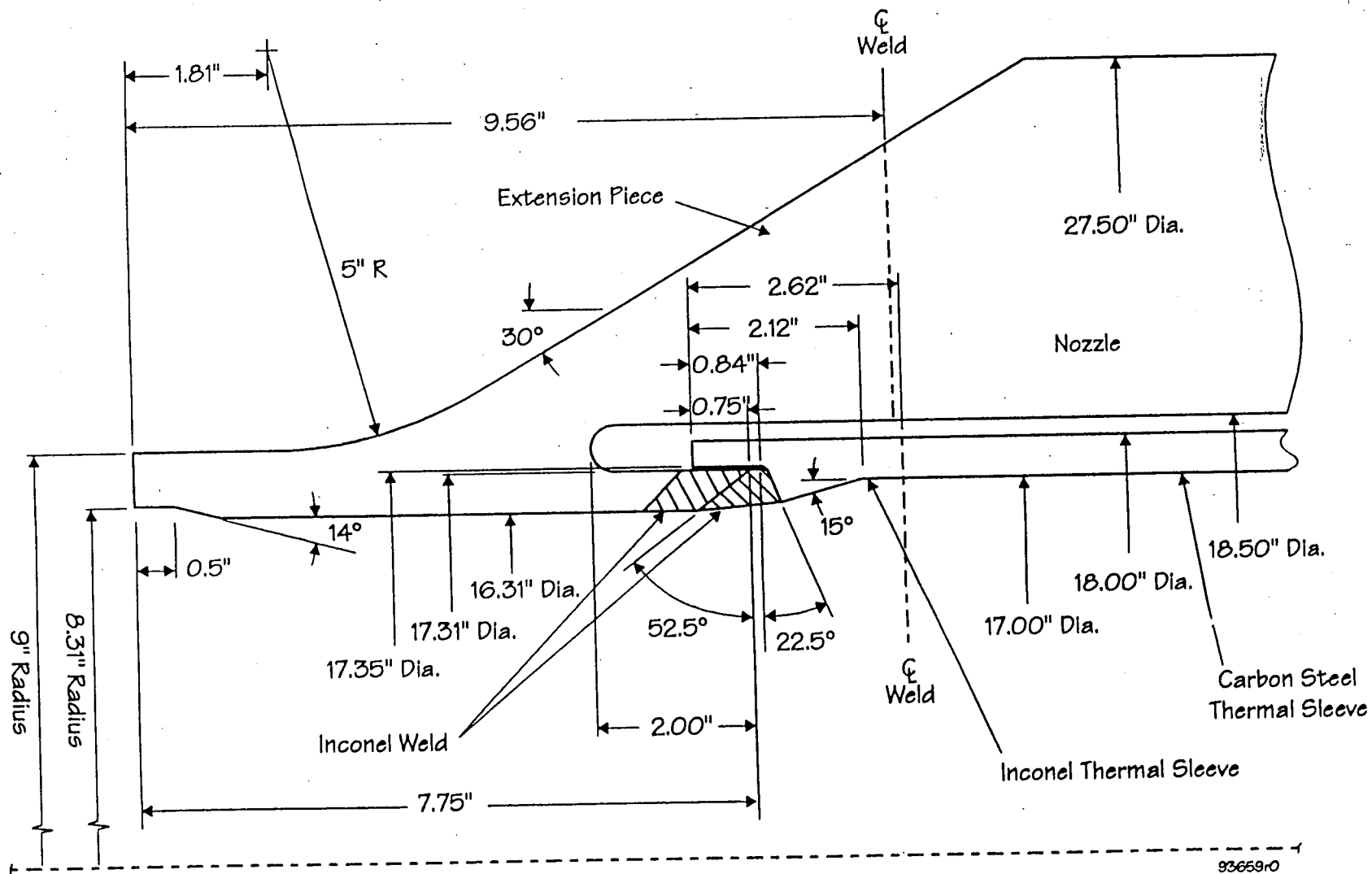
- elevation -



## Detail 1 - Thermal Sleeve Wear

Note: Model "F" SG has welded in Thermal Sleeve. Not susceptible to this.

Figure 2-1. Geometry of Nozzle/Extension Piece/Thermal Sleeve



- Notes:
1. Extension Piece Material is SA-508, Class 2.
  2. Nozzle Material is SA-336.
  3. Thermal Sleeve Material is SB-166 and SA-106, Grade B.

Note: 1. Material is SA-234, Grade WPB.

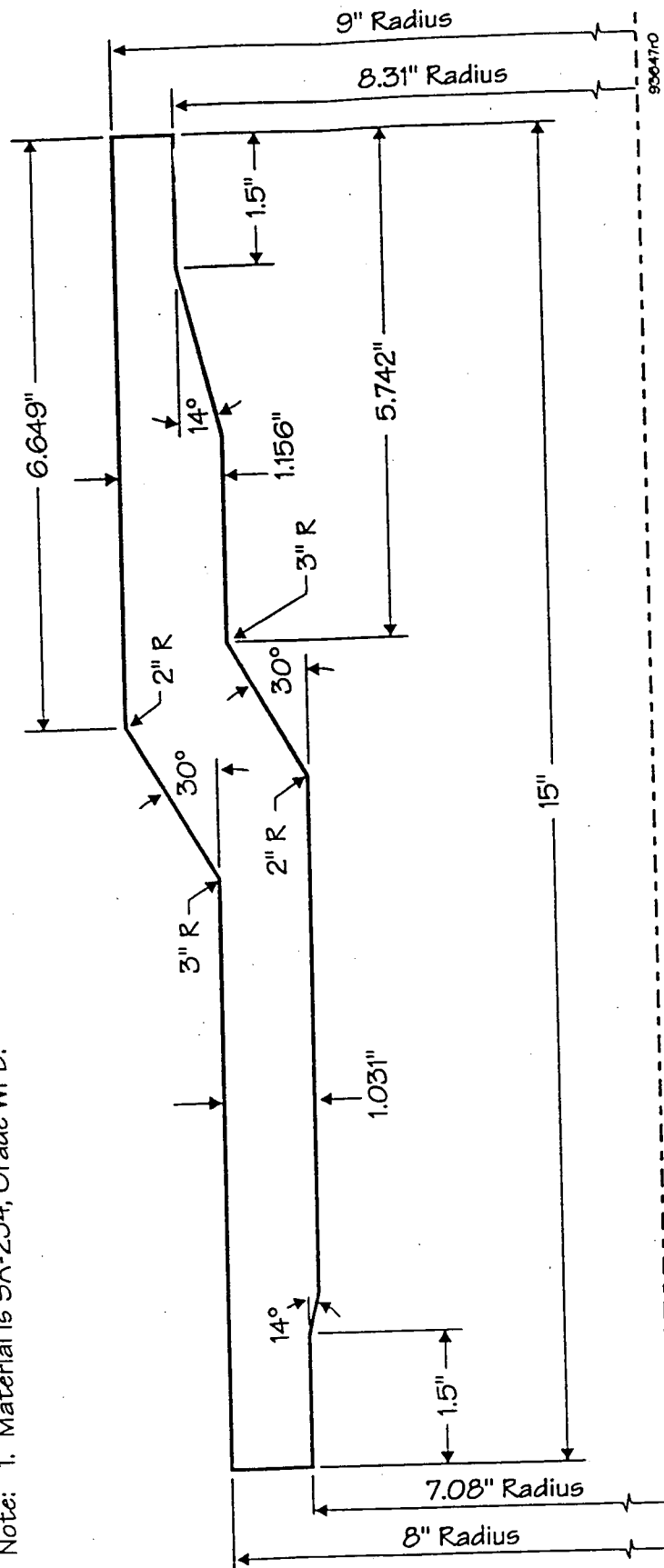


Figure 2-2. Geometry of As-Ordered Reducer

**PREVIOUS NES DATA**

**WELD #1**

**FOLLOWS**

DATA SHEET NO. 1223-008  
 PAGE 1 OF 24  
 BASE MATERIAL EXAM, REDUCER  
 (CAL-216 WELD #1 W.R.V.)  
 AND EXPANDER

# ULTRASONIC CALIBRATION DATA SHEET

PROC. NO. SP 1223  
 REV. 0  
 CHANGE NO. N/A

## INSTRUMENT

Model USK-7  
 Serial No. 27276-3702  
 Sweep Length 8.18 Delay 7.92  
 Range 1.5"  
 Gain (coarse) 20 dB  
 Gain (fine) 22 dB  
 Reference Sensitivity 42 dB  
 Remarks: N/A

## SEARCH UNIT

Serial No. H28181  
 Size .25" DUAL GAMMA  
 Frequency 5.0 MHz  
 Mode LONGITUDINAL  
 Nom. Angle 0 °  
 Measured Angle N/A °  
 Cable Type SELF CONTAINED  
 Cable Length 6'  
 Remarks: N/A

## CALIBRATION BLOCK

No. 80C3613E  
 T 1"-1.0" Dia. N/A  
 Temperature 70 °F  
 Thermometer S/N 962

## CALIBRATION

0° ☒ Axial ☒ Circ. ☒  
 Metal Path ☒ Depth ☒  
 Each Major Screen Div. = .2"  
 Remarks PROFILE THICKNESS ONLY.

## VERTICAL LINEARITY

### AMPLITUDE % FSH

	HIGH	LOW		HIGH	LOW
1	100	50	6	50	25
2	90	45	7	40	20
3	80	40	8	30	15
4	70	35	9	20	10
5	60	30	10	10	5

## AMPL. CONTROL LINEARITY

INITIAL	dB	RESULT
80	-6	40
80	-12	20
40	+6	80
20	+12	80

## CAL. CHECKS

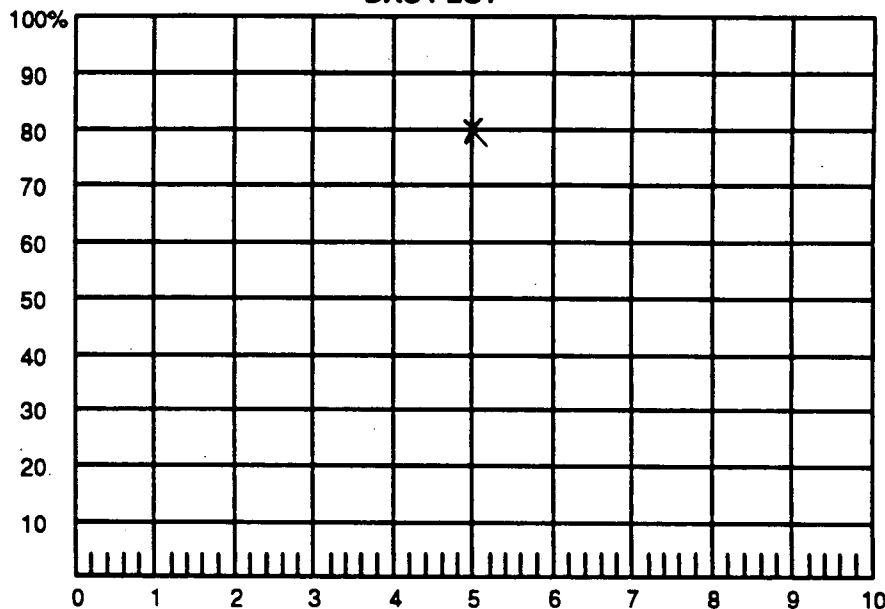
## TIME

INITIAL CAL.	0958
INTERMEDIATE	1216
INTERMEDIATE	N/A
INTERMEDIATE	A
FINAL CAL.	1845

## COUPLANT

Brand ULTRABEL II  
 Batch No. 093001

## DAC PLOT



REMARKS: N/A

EXAMINERS 1 [Signature] LEVEL III DATE 9/23/93  
 2 [Signature] LEVEL II DATE 9/23/93  
 REVIEWERS 1 [Signature] LEVEL III DATE 10-1-92  
 2 [Signature] LEVEL N/A DATE 10/9/93  
 3 [Signature] LEVEL ANII DATE 10/12/93

DATA SHEET NO. 1223-003  
 PAGE 2 OF 24  
 BASE MATERIAL EXAM. REDUCER  
 (CPL-216 WELD #1 WRV)  
 AND EXPANDER

# ULTRASONIC CALIBRATION DATA SHEET

PROC. NO. SP 1223  
 REV. 0  
 CHANGE NO. N/A

## INSTRUMENT

Model USA-7  
 Serial No. 27276-749  
 Sweep Length 4.90 Delay 7.60  
 Range 2.5"  
 Gain (coarse) -0 / =0 dB  
 Gain (fine) -20 / =28 dB  
 Reference Sensitivity -20 / =28 dB  
 Remarks: N/A

## SEARCH UNIT

Serial No. M14135  
 Size .5"  
 Frequency 2.25 MHz  
 Mode SHEAR  
 Nom. Angle 45 °  
 Measured Angle 44 °  
 Cable Type R6-174  
 Cable Length 6'  
 Remarks: .4" EXT POINT TO  
FRONT OF WEDGE

## CALIBRATION BLOCK

No. CPL-57  
 "T" 1.158" Dia. .18"  
 Temperature 70 ° F  
 Thermometer S/N 962

## CALIBRATION

0° ☒ N/A Axial ☒ Circ. ☒  
 Metal Path ☒ Depth ☒ N/A  
 Each Major Screen Div. = .25"  
 Remarks: N/A

## VERTICAL LINEARITY

AMPLITUDE % FSH

	HIGH	LOW		HIGH	LOW
1	100	50	6	50	25
2	90	45	7	40	20
3	80	40	8	30	15
4	70	35	9	20	10
5	60	30	10	10	4

## AMPL. CONTROL LINEARITY

INITIAL	dB	RESULT
80	-6	40
80	-12	20
40	+6	78
20	+12	78

## CAL. CHECKS

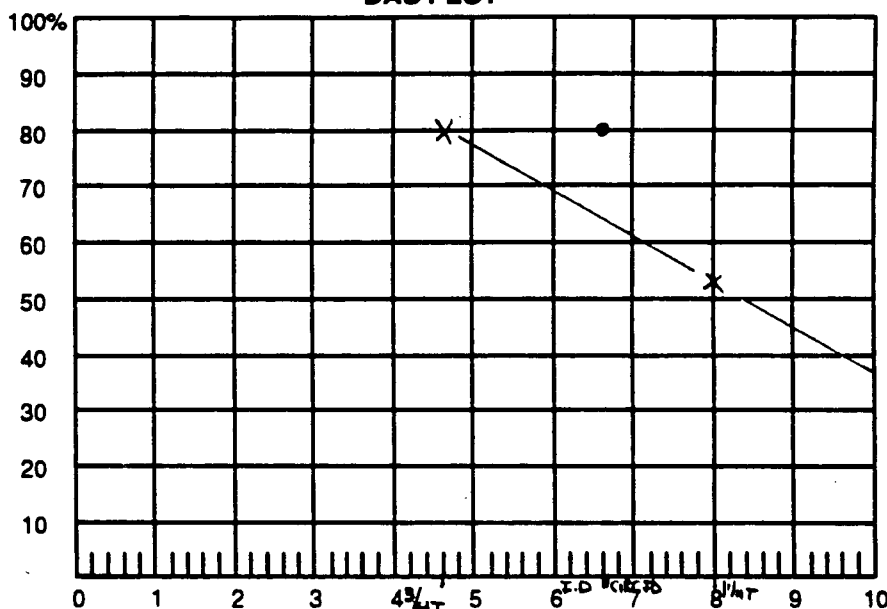
## TIME

INITIAL CAL.	1005
INTERMEDIATE	1215
INTERMEDIATE	N/A
INTERMEDIATE	A
FINAL CAL.	1845

## COUPLANT

Brand ULTRAGEL II  
 Batch No. 093001

## DAC PLOT



REMARKS: -12dB I.D. NOTCH TO DAC  
• = CIRC. I.D. NOTCH  
x = AXIAL S.D.H.

EXAMINERS 1 [Signature] LEVEL III DATE 9/23/93  
 2 [Signature] LEVEL II DATE 9/23/93  
 REVIEWERS 1 [Signature] LEVEL III DATE 10-1-93  
 2 [Signature] LEVEL N/A DATE 10/9/93  
 3 [Signature] LEVEL AN11 DATE 10/13/93



DATA SHEET NO. 1223-008  
 PAGE 3 OF 24  
 BASE MATERIAL EXAM. REDUCER  
 (CPL-216 WELD #1 W.R.V.)  
 AND EXPANDER

# ULTRASONIC CALIBRATION DATA SHEET

PROC. NO. SP1223  
 REV. 0  
 CHANGE NO. N/A

## INSTRUMENT

Model USK-7  
 Serial No. 27276-807  
 Sweep Length 8.04 Delay 7.46  
 Range 2.5"  
 Gain (coarse) -20 = 20 dB  
 Gain (fine) -20 = 20 dB  
 Reference Sensitivity -20 = 20 dB

Remarks: N/A

## SEARCH UNIT

Serial No. E18404  
 Size .5"  
 Frequency 2.25 MHz  
 Mode SHEAR  
 Nom. Angle 60 °  
 Measured Angle 60 °  
 Cable Type RB-174  
 Cable Length 6'  
 Remarks: .5" EXIT POINT TO FRONT OF WEDGE

## CALIBRATION BLOCK

No. CPL-57  
 "T" 1.158" Dia. 1B"  
 Temperature 70 °F  
 Thermometer S/N 962

## CALIBRATION

0° ☒ N/A Axial ☒ Circ. ☒  
 Metal Path ☒ Depth ☒ N/A  
 Each Major Screen Div. = .5"  
 Remarks: N/A

## COUPLANT

Brand ULTRAGEL II  
 Batch No. 093001

## VERTICAL LINEARITY

### AMPLITUDE % FSH

	HIGH	LOW		HIGH	LOW
1	100	50	6	50	25
2	90	45	7	40	20
3	80	40	8	30	15
4	70	35	9	20	10
5	60	30	10	10	5

## AMPL. CONTROL LINEARITY

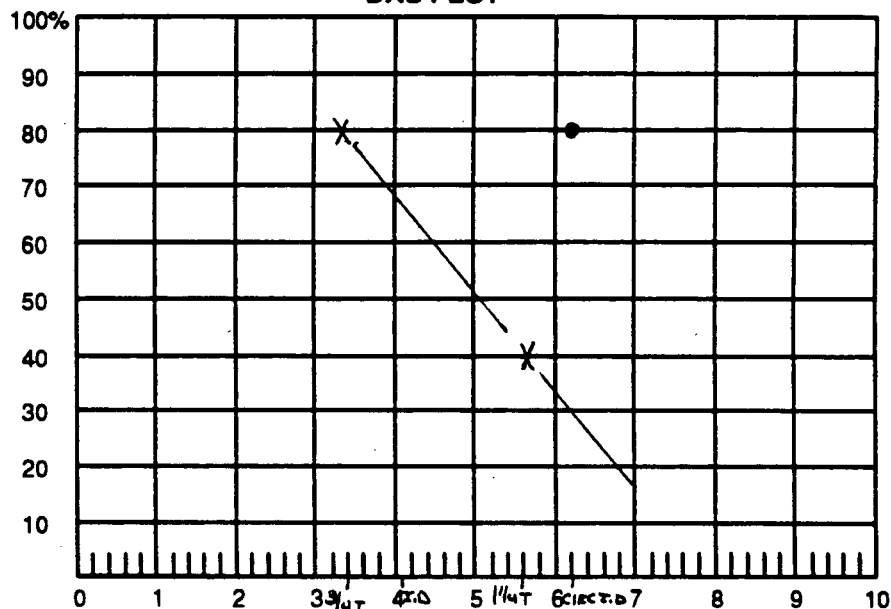
INITIAL	dB	RESULT
80	-6	40
80	-12	20
40	+6	80
20	+12	80

## CAL. CHECKS

## TIME

INITIAL CAL.	1015
INTERMEDIATE	1217
INTERMEDIATE	N/A
INTERMEDIATE	N/A
FINAL CAL.	1845

## DAC PLOT



REMARKS: I.D. NOTCH FALLS AT DAC  
• = CIRC Z.O. NOTCH  
X = AXIAL S.D.H.

EXAMINERS 1 [Signature] LEVEL III DATE 9/23/93  
 2 David M. Martin LEVEL II DATE 9/23/93  
 REVIEWERS 1 Scott Kram LEVEL III DATE 10-1-93  
 2 Richard B. Water LEVEL N/A DATE 10/9/93  
 3 Arnell Adams LEVEL Avii DATE 10/13/93

DATA SHEET NO. 1223-003PAGE 4 OF 24

EXAM ITEM

1B" SIG F.W. REDUCER BASE MATERIAL**ULTRASONIC  
EXAMINATION  
DATA SHEET**COMPONENT/SYSTEM 8" SIG F.W. REDUCERISO/DWG. NO. COL-216 REV. 0THERMOMETER S/N 962COMPONENT TEMP. 80 ° F

SCAN <u>45</u> ° SCAN dB <u>38</u>				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=		YES	NO	YES	NO	YES	NO	ACC.	REJ.
N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A	✓	✓	N/A

REMARKS: SCANNED REDUCER FOR DETECTION OF THERMAL FATIGUE CRACKING.NONE DETECTED. GEOMETRIC INDICATIONS NOTED AT BELOW RECORDABLE LEVELS. Includes Examination of Welds #1 and #2 from Reducer Side.

SCAN <u>45</u> ° SCAN dB <u>40</u>				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=		YES	NO	YES	NO	YES	NO	ACC.	REJ.
N/A	N/A	✓	N/A	✓	N/A	N/A	✓	N/A	✓	✓	N/A

REMARKS: SCANNED REDUCER FOR DETECTION OF THERMAL FATIGUE CRACKING.NONE DETECTED. Includes Examination of Welds #1 and #2 from Reducer Side.

SCAN _____ ° SCAN dB _____				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=		YES	NO	YES	NO	YES	NO	ACC.	REJ.

REMARKS:

SCAN _____ ° SCAN dB _____				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=		YES	NO	YES	NO	YES	NO	ACC.	REJ.

REMARKS:

EXAMINERS:

1 [Signature] LEVEL \_\_\_\_\_ DATE 9/23/93  
 2 David M. Martin LEVEL II DATE 9/23/93

REVIEWERS:

1 [Signature] LEVEL III DATE 10-1-93  
 2 Richard B. Zales LEVEL N/A DATE 10/9/93  
 3 R. Valladao LEVEL ANN DATE 10/17/93

DATA SHEET NO. 1223-008PAGE 5 OF 24

EXAM ITEM

"B" SIG RW. REDUCER BASE  
MATERIAL EXAM.**ULTRASONIC  
EXAMINATION  
DATA SHEET**COMPONENT/SYSTEM "B" SIG RW. REDUCERISO/DWG. NO. CPK-216 REV. 0THERMOMETER S/N 962COMPONENT TEMP. 80 ° F

SCAN <u>60</u> ° SCAN dB <u>52</u>				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=		YES	NO	YES	NO	YES	NO	ACC.	REJ.
N/A	✓	N/A	N/A	✓	N/A	✓	N/A	N/A	✓	✓	N/A

REMARKS: SCANNED REDUCER FOR DETECTION OF THERMAL FATIGUE CRACKING.  
NONE DETECTED. Includes Examination of Welds #1 and #2 from Reducer Side.

SCAN <u>60</u> ° SCAN dB <u>52</u>				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=		YES	NO	YES	NO	YES	NO	ACC.	REJ.
N/A	N/A	✓	N/A	✓	N/A	N/A	✓	N/A	✓	✓	N/A

REMARKS: SCANNED REDUCER FOR DETECTION OF THERMAL FATIGUE CRACKING.  
NONE DETECTED. Includes Examination of Welds #1 and #2 from Reducer Side

SCAN _____ ° SCAN dB _____				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=		YES	NO	YES	NO	YES	NO	ACC.	REJ.

REMARKS:

SCAN _____ ° SCAN dB _____				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=		YES	NO	YES	NO	YES	NO	ACC.	REJ.

REMARKS:

EXAMINERS:

1 [Signature] LEVEL III DATE 9/23/93  
 2 [Signature] LEVEL II DATE 9/23/93

REVIEWERS:

1 [Signature] LEVEL III DATE 10-1-9  
 2 [Signature] LEVEL N/A DATE 10/9/93  
 3 [Signature] LEVEL As per DATE 11-13-9

EXAM ITEM

Weld #1 WRV And Expander  
BASE MATERIAL EXAM

ISO/DWG. NO.

CPL-216

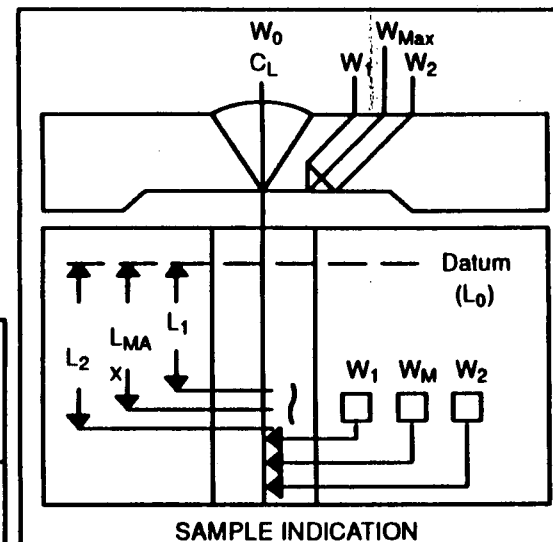
ULTRASONIC INDICATION  
REPORT SHEET

- ☒ PIPING WELDS  
☐ FERRITIC VESSELS  $\geq 2" T$  \*  
☐ OTHER \_\_\_\_\_

DATA SHEET NO. 1223-008

PAGE 6 OF 24

SEARCH UNIT ANGLE 45°

W<sub>0</sub> LOCATION E of WeldL<sub>0</sub> LOCATION TDC

MP	Metal Path	W max	Distance from W <sub>0</sub> to S.U. at maximum response.
RBR	Remaining Back Reflection	W <sub>1</sub>	Distance from W <sub>0</sub> at 50% of DAC (fwd)
L	Distance from Datum	W <sub>2</sub>	Distance from W <sub>0</sub> at 50% of DAC (backward)

Ind.  No.	%  of  DAC*	W MAX		FWD 50% DAC*		BACKWARD 50% DAC*		L <sub>1</sub>	L  max	L <sub>2</sub>	RBR  amp	S.U.
		W	MP	W <sub>1</sub>	MP	W <sub>2</sub>	MP	50% DAC		50% DAC		Loc.
1	25%	.55"	.875"	.40"	.75"	.60"	.95"	.5"cw	.3"cw	.1"cw	N/A	U.S.
2	20%	.95"	1.225"	.85"	1.15"	1.2"	1.3"	.5"cw	.3"cw	.1"cw	N/A	D.S.

REMARKS

Indications #1 and #2 are  
 Non-Metallic Inclusions, And  
 were Recorded to Confirm and  
 to assist in Disposition of  
 Indications Recorded on 60°  
 Indication Report Sheet

\* Ferritic vessels  $\geq 2" T$ : record 50% of maximum response for indications over 100% DAC.

Note: See 60° Indication Report Sheet

EXAMINERS

1

LEVEL

III

DATE

9/23/93

2

LEVEL

II

DATE

9/23/93

REVIEWERS

1

LEVEL

III

DATE

10-1-93

2

LEVEL

N/A

DATE

10/9/93

3

LEVEL

N/A

DATE

10/12/93

## EXAM ITEM

BASE MATERIAL EXAM, REDUCER  
(WELD & W.R.V AND  
EXPANDER)

ISO/DWG. NO.

CPL-216

# ULTRASONIC INDICATION REPORT SHEET

- ☒ PIPING WELDS  
☐ FERRITIC VESSELS  $\geq 2"$  T\*  
☐ OTHER \_\_\_\_\_

DATA SHEET NO. 1223-008

PAGE 7 OF 29

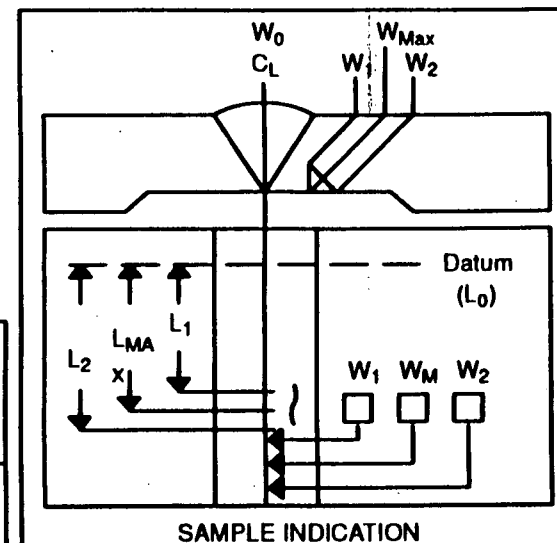
SEARCH UNIT ANGLE 60°

W<sub>0</sub> LOCATION E of WeldL<sub>0</sub> LOCATION TDC

MP Metal Path  
 RBR Remaining Back Reflection  
 L Distance from Datum

W max Distance from W<sub>0</sub> to S.U. at maximum response.  
 W<sub>1</sub> Distance from W<sub>0</sub> at 50% of DAC (fwd)  
 W<sub>2</sub> Distance from W<sub>0</sub> at 50% of DAC (backward)

Ind. No.	% of DAC*	W MAX		FWD 50% DAC*		BACKWARD 50% DAC*		L <sub>1</sub> 50% DAC	L max	L <sub>2</sub> 50% DAC	RBR amp	S.U. Loc.
		W	MP	W <sub>1</sub>	MP	W <sub>2</sub>	MP					
1	125%	1.0"	1.2"	.80"	1.05"	1.3"	1.55"	.5"ccw	.25ccw	.25"cw	N/A	U.S.
2	40%	1.2"	1.4"	1.1"	1.35"	1.45"	1.65"	.5"ccw	.25ccw	.10cw	N/A	U.S.
3	30%	1.2"	1.5"	1.1"	1.45"	1.50"	1.75"	.5ccw	.25ccw	.10cw	N/A	D.S.



## REMARKS

Indication\* 1, \*2 and \*3  
 are Non Metallic Inclusions. They  
 can also be seen with a 0° at  
 Depths of .64", .68", And are  
 located at .1" to .2" D.S. from  
 E of Weld. Verified with ID Profiles  
 and Beam Plots Review of  
 Radiographs also confirmed the  
 Existence of Non Metallic Inclusions.

\* Ferritic vessels  $\geq 2"$  T: record 50% of maximum response for indications over 100% DAC.

Note: Also See 45° Indication Report Sheet.

EXAMINERS

1

[Signature]

LEVEL

III

DATE

9/23/93

2

[Signature]

LEVEL

II

DATE

9/23/93

REVIEWERS

1

[Signature]

LEVEL

III

DATE

10-1-93

2

[Signature]

LEVEL

N/A

DATE

10/9/93

3

[Signature]

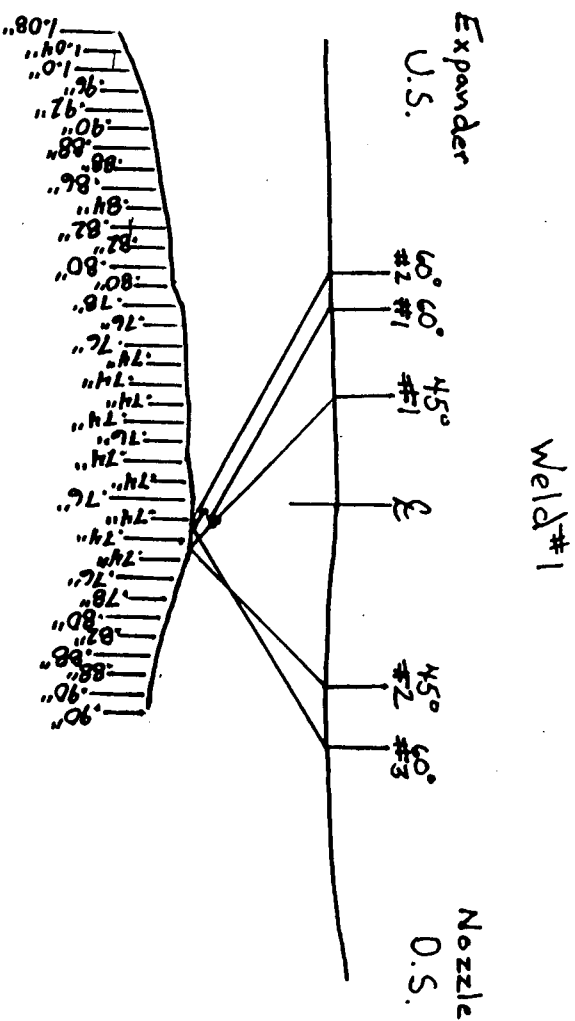
LEVEL

A/C

DATE

10/13/93

CP-216 Weld #1  
Reducer Base Material



9/23/23

PLANT/UNIT: HBR 2  
ISO: 216 weld 1  
COMP/SYS.: FW  
COP: 3

# ULTRASONIC EVALUATION SHEET

DATA PKG: 1223-003  
PAGE 9 OF 24  
EXAM ITEM: 216 1  
PROCEDURE: SP 1223  
REV./F.C.: 0  
TITLE: WT of Piping

SIZING METHOD USED: ☒ 6 dB Drop ☐ 12 dB Drop ☐ 20 dB Drop  
☐ Satellite Pulse Observation Technique (SPOT)  
☐ Pulse Arrival Time Technique (PATT)  
☐ Multipulse-Observation Sizing Technique  
☐ 30-70-70 Mode Conversion (Creeping Longitudinal Wave)  
☐ Other (Describe): \_\_\_\_\_

SIZING PARAMETERS: MATERIAL: Ferritic THICKNESS (T): .74" ( ☐ NOMINAL ☒ ACTUAL )  
(NOTE: Only applicable data is to be recorded.)

See Indication Report Sheet page 1 2 3 4 5 of Indication # 1

THROUGH WALL DIMENSION	(a')	<u>.1</u>				
FLAW LENGTH	(l')	<u>.25</u>				
LAMINER INDICATION WIDTH	(W)	<u>N/A</u>			<u>N</u>	
DEPTH FROM I.D.	(l <sub>i</sub> )	<u>.09</u>			<u>A</u>	
DEPTH FROM O.D.	(O <sub>i</sub> )	<u>.55</u>				
PROXIMITY TO NEAREST SURFACE	(S)	<u>.09</u>				
SURFACE CHARACTERIZATION LIMIT		<u>.02</u>				

(0.4 X 1/2 Through Wall Dimension)

CHARACTERIZATION: Sub surface

	(a)	<u>.05</u>				
ASPECT RATIO	(a/l)	<u>.20</u>			<u>N</u>	
S/a		<u>1.8</u>			<u>A</u>	
(MULTIPLY BY Y IF SUB-SURFACE) <u>Flaw actual</u> <u>a/T</u> (Y)=1		<u>6.75</u>				
ALLOWABLE FLAW SIZE	(a/l)	<u>17.7</u>				

ACCEPTANCE CRITERIA: ASME SECT. XI ED. 1986 ADDENDUM None PARA IWC-3514

OTHER: N/A

COMMENTS: Flaw does not exceed the allowable flaw size per Table IWB-3514-1  
Non-metallic inclusion - verified on radiograph. See attached

EXAMINER 1: Scott L...

LEVEL: III

DATE: 9-24-93

EXAMINER 2: N/A

LEVEL: N/A

DATE: N/A

VIEWER 1: ... III

DATE: 10/2/93

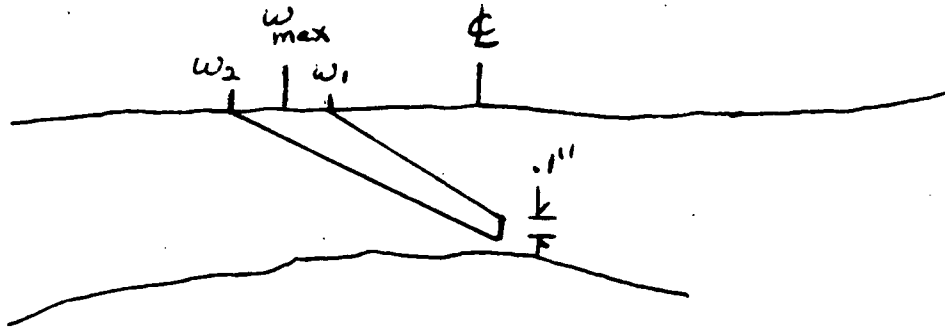
REVIEWER 2: Richard B. Weber

DATE: 10/2/93

REVIEWER 3: R. D. ... NN

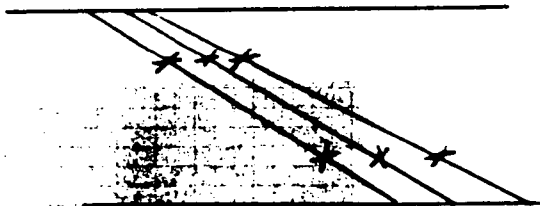
DATE: 10/13/93

REF.



Indication #1 See Indication Report Sheet  
and UT Evaluation Sheet

Scott Larson LIII 9-24-93



Beam Spread measurements  
for  
60° S/N E18404





12 of 24

<b>CAROLINA POWER &amp; LIGHT COMPANY</b> <b>ULTRASONIC CALIBRATION SHEET FOR PLANAR FLAW SIZING</b>				<b>FORM QA UT-16A</b> <b>REVISION 0</b>									
Plant: <u>HBR</u>		Unit: <u>2</u>	Date: <u>9/30/93</u>		Sheet number: <u>1233-008</u>								
Procedure: <u>NDEP-426</u>		Rev: <u>0</u>	Couplant: <u>ULTRAGEL II</u>		Batch No: <u>093051</u>								
Examiner: <u>[Signature]</u>		Level: <u>III</u>	Calibration Block ID: <u>CPL-UT-004</u>		Pyrometer S/N: <u>962</u>								
Examiner: <u>Daniel M. Martin</u>		Level: <u>II</u>	Calibration Block Temp: <u>72°</u>										
REFERENCE BLOCK		INSTRUMENT		TRANSDUCER									
ID: _____		<input type="checkbox"/> digital <input checked="" type="checkbox"/> analog		Single <input type="checkbox"/> Dual <input checked="" type="checkbox"/>									
Type: <u>N/A</u>		Model: <u>USK-7</u>		Serial No: <u>2211-93001</u>									
Material: _____		Serial No: <u>27276-807</u>		Frequency: _____ Mhz									
Measured Beam Angle: _____		Manufacturer: <u>KRAUTKRAMER</u>		Size: <u>2 (25mm x 12mm)</u>									
				Manufacturer: <u>SIGMA</u>									
SIMULATOR BLOCK													
ID: _____													
Reflector Type: <u>N/A</u>													
CE-2: _____ Div's													
Pulse Separation: _____ Depth _____													
INSTRUMENT SETTINGS		CALIBRATION METHOD											
Reject <u>MIN.</u>													
Damping <u>FIXED</u>													
Delay <u>6.70</u>													
Mat'l Cal <u>7.90</u>													
Frequency <u>FIXED</u>													
Gain/Coarse <u>20</u>		<p>Wave Mode:</p> <p>shear: <input type="checkbox"/></p> <p>longitudinal: <input checked="" type="checkbox"/></p> <p>bi-modal: <input type="checkbox"/></p> <p>Type Reflector</p> <p>holes: <input type="checkbox"/></p> <p>notches: <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> PATT    Measured Beam Angle _____ deg</p> <p><input checked="" type="checkbox"/> HALT</p> <p><input type="checkbox"/> MOST</p> <p><input type="checkbox"/> SPOT</p> <p><input type="checkbox"/> 30-70-70</p> <p>CE-2: _____ Div's</p>											
Gain/fine <u>34</u>													
Filter <u>FIXED</u>													
Pulse/Echo <input type="checkbox"/>													
Thru trans <input checked="" type="checkbox"/>													
Jack Used: T <input checked="" type="checkbox"/> IR <input checked="" type="checkbox"/>		<p>CABLES</p> <p>RG62 <input checked="" type="checkbox"/></p> <p>RG58 <input type="checkbox"/></p> <p>RG174 <input type="checkbox"/></p> <p>Length: <u>6'</u></p> <p>Initial Calibration Time: <u>1030</u></p> <p style="text-align: center;">CAL CHECKS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Initials</th> </tr> </thead> <tbody> <tr> <td><u>1220</u></td> <td></td> </tr> <tr> <td><u>1344</u></td> <td></td> </tr> <tr> <td><u>1527</u></td> <td></td> </tr> </tbody> </table>				Time	Initials	<u>1220</u>		<u>1344</u>		<u>1527</u>	
Time	Initials												
<u>1220</u>													
<u>1344</u>													
<u>1527</u>													
Rep Rate <u>FIXED</u>													
Remarks: <u>CAL-216 WELD #1</u>													
REVIEWED BY: <u>[Signature]</u>													
LEVEL: <u>III</u>													
DATE: <u>9/30/93</u>													
ANII REVIEW: <u>[Signature]</u>													
DATE: <u>9/30/93</u>													

DATA SHEET NO. 1223-008PAGE 13 OF 24

EXAM ITEM

**ULTRASONIC  
EXAMINATION  
DATA SHEET**COMPONENT/SYSTEM Weld #1 FWISO/DWG. NO. CPL 216 REV. 0THERMOMETER S/N 962COMPONENT TEMP. 89 ° FWeld # 1

SCAN <u>45</u> ° SCAN dB <u>52</u>				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=	HALT	YES	NO	YES	NO	YES	NO	ACC.	REJ.
N/A	N/A	N/A	X	X	N/A	N/A	X	N/A	X	X	N/A

REMARKS: Reducer to Nozzle, Complete Reducer Side Only. Examination for the Detection of Crack Tips was Performed 360° using the High Angle L-Wave Technique. No Crack Tips were Observed.

SCAN <u>60</u> ° SCAN dB <u>54</u>				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=	HALT	YES	NO	YES	NO	YES	NO	ACC.	REJ.
N/A	N/A	N/A	X	X	N/A	N/A	X	N/A	X	X	N/A

REMARKS: Reducer to Nozzle, Complete Reducer Side Only. Examination for the Detection of Crack Tips was Performed 360° using the High Angle L-Wave Technique. No Crack Tips were Observed.

SCAN _____ ° SCAN dB _____				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=	HALT	YES	NO	YES	NO	YES	NO	ACC.	REJ.

REMARKS:

SCAN _____ ° SCAN dB _____				EXAMINATION COMPLETE		GEOMETRIC INDICATIONS		RECORDABLE INDICATIONS		EVALUATION	
0°	I	=	HALT	YES	NO	YES	NO	YES	NO	ACC.	REJ.

REMARKS:

EXAMINERS:

1 [Signature] LEVEL III DATE 9/30/93  
2 [Signature] LEVEL II DATE 9/30/93

REVIEWERS:

1 [Signature] LEVEL III DATE 10-19  
2 [Signature] LEVEL N/A DATE 10/9/93  
3 [Signature] LEVEL II DATE 10/12/93

**CPL-217**