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June 22, 2000

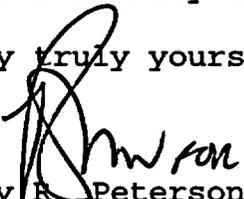
U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Subject: Duke Energy Corporation
Catawba Nuclear Station, Unit 2
Docket Number 50-414
Inservice Inspection Report for End of
Cycle 10 Refueling Outage

Please find attached the subject report which provides the results of the inservice inspection effort associated with the subject outage.

If you have any questions concerning this material, please call L.J. Rudy at (803) 831-3084.

Very truly yours,


Gary R. Peterson

LJR/s

Attachment

A047

Document Control Desk
Page 2
June 22, 2000

xc (with attachment):

L.A. Reyes, Regional Administrator
U.S. Nuclear Regulatory Commission, Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, GA 30303

D.J. Roberts, Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Catawba Nuclear Station

C.P. Patel, Senior Project Manager (addressee only)
U.S. Nuclear Regulatory Commission
Mail Stop 08-H12
Washington, D.C. 20555-0001

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Energy Corporation, 526 S. Church St., Charlotte, NC 28201-1006
(Name and Address of Owner)
2. Plant: Catawba Nuclear Station, 4800 Concord Road, York, SC 29745
(Name and Address of Plant)
3. Plant Unit: 2 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: 8/19/86 6. National Board Number for Unit 173
7. Components Inspected:

Component or Appurtenance	Manufacturer Installer	Manufacturer Installer Serial No.	State or Province No.	National Board No.
_____	_____	_____	_____	_____
<p>Section 1.1 in the attached report lists the Manufacturer / Installer Serial Number; State or Providence Number; and National Board Number for the systems and the NSSS Components. Detailed listings of the components inspected are contained in Sections 4 and 11.</p>				
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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 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.

INSERVICE INSPECTION REPORT

CATAWBA UNIT 2 2000 REFUELING OUTAGE EOC10 (OUTAGE 3)

Location: 4800 Concord Road, York, South Carolina 29745

NRC Docket No: 50-414

National Board No. 173

Commercial Service Date: August 19, 1986

Owner: Duke Energy Corporation
526 South Church St.
Charlotte, N. C. 28201-1006

Revision 0

Prepared By:

A. J. Hogge, Jr.

Date

6/14/00

Reviewed By:

J. C. Cherry

Date

6/14/00

Approved By:

R. Kevin Rhyme

Date

6/14/00

DISTRIBUTION LIST

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**Hartford Steam Boiler Inspection
and Insurance Company (ANII)**

c/o R. N. McGill

Catawba Nuclear Station

Laura Burba

Nuclear GO

Regulatory & Industrial Affairs

Mail Code= EC050

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1.0 General Information

This report describes the Inservice Inspection of Duke Energy Corporation's Catawba Nuclear Station, Unit 2 during the 2000 Refueling Outage [also referred to as EOC10 (Outage 3)]. This is the First Outage of the Second Inspection Period of the Second Ten Year Interval.

Included in this report are the final Inservice Inspection Plan, the inspection results for each item, a summary for each category of examination and corrective action taken when unacceptable conditions were found. In addition, there is a section included for repairs and replacements required since October 24, 1998.

1.1 Identification Numbers

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering	8871	N/A	21667
Pressurizer	Westinghouse	1931	N/A	W26949
Steam Generator 2A	Westinghouse	1923	N/A	4
Steam Generator 2B	Westinghouse	1922	N/A	3
Steam Generator 2C	Westinghouse	1921	N/A	2
Steam Generator 2D	Westinghouse	1924	N/A	5
Reactor Coolant Pump 2A	Ionics, Inc.	1S-86P765	N/A	342
Reactor Coolant Pump 2B	Ionics, Inc.	2S-86P765	N/A	343

1.1 Identification Numbers

Continued

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Coolant Pump 2C	Ionics, Inc.	3S-86P765	N/A	586
Reactor Coolant Pump 2D	Ionics, Inc.	4S-86P765	N/A	587
Reactor Coolant System	Duke Power Co.	C-2NC	N/A	171
Safety Injection System	Duke Power Co.	C-2NI	N/A	172
Residual Heat Removal System	Duke Power Co.	C-2ND	N/A	154
Chemical and Volume Control System	Duke Power Co.	C-2NV	N/A	170
Auxiliary Feedwater System	Duke Power Co.	C-2CA	N/A	159
Feedwater System	Duke Power Co.	C-2CF	N/A	158
Refueling Water System	Duke Power Co.	C-2FW	N/A	141
Main Steam Supply to Auxiliary Equipment	Duke Power Co.	C-2SA	N/A	134
Main Steam System	Duke Power Co.	C-2SM	N/A	162
Main Steam Vent to Atmosphere System	Duke Power Co.	C-2SV	N/A	156
Containment Spray System	Duke Power Co.	C-2NS	N/A	150
Steam Generator Blowdown System	Duke Power Co.	C-2BB	N/A	155
Steam Generator Wet Layup Recirculation System	Duke Power Co.	C-2BW	N/A	152

1.1 Identification Numbers

Continued

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Spent Fuel Cooling System	Duke Power Co.	C-2KF	N/A	151
Boron Recycle System	Duke Power Co.	C-2NB	N/A	153
Nuclear Sampling System	Duke Power Co.	C-2NM	N/A	169
Containment Penetration Valve Injection Water System	Duke Power Co.	C-2NW	N/A	165
Liquid Radwaste System	Duke Power Co.	C-2WL	N/A	168
Excess Letdown Heat Exchanger	Atlas Industrial Manufacturing Company	3205	N/A	2583
Seal Water Heat Exchanger	Atlas Industrial Manufacturing Company	3621	N/A	2977
Vertical Letdown Heat Exchanger	Joseph Oat Corporation	2268-2B	N/A	944
Regenerative Heat Exchanger	Joseph Oat Corporation	2255-1C3	N/A	877
Residual Heat Removal Heat Exchanger	Joseph Oat Corporation	2A 2267-3C	N/A	848
		2B 2267-3D	N/A	849
Containment Spray Heat Exchanger	Yuba Heat Transfer Corporation	2A 74-N-009-2A	N/A	3330
		2B 74-N-009-2B	N/A	3331
Seal Water Injection Filter	Pall Trinity Micro Corporation	2A 35367	N/A	19025
		2B 35366	N/A	19024
Volume Control Tank	Lamco Industries Inc.	2286.30	N/A	77171

1.1 Identification Numbers

Continued

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Residual Heat Removal Pump	Ingersoll-Rand	2A 077647	N/A	237
		2B 077648	N/A	238
Containment Spray Pump	Bingham-Willamette	2A 230342	N/A	215
		2B 230343	N/A	216
Safety Injection Pump	Pacific Pumps	2A 49361	N/A	240
		2B 49362	N/A	241
Centrifugal Charging Pump	Pacific Pumps	2A 49780	N/A	262
		2B 49779	N/A	259

1.2 Authorized Nuclear Inservice Inspector(s)

Name: R. N. McGill

Employer: The Hartford Steam Boiler Inspection & Insurance Company

Business Address: The Hartford Steam Boiler Inspection & Insurance Co.
200 Ashford Center North
Suite 300
Atlanta, GA 30338

2.0 Summary of Inservice Inspections

The information shown below provides an abstract of ASME Section XI Class 1, Class 2, and Augmented Items scheduled and examined during EOC10 (Outage 3), at Catawba Nuclear Station, Unit 2.

2.1 Class 1 Inspection

Examination Category B-A Pressure Retaining Welds In Reactor Vessel

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B01.010	<i>Shell Welds</i>	
B01.011	Circumferential	0
B01.012	Longitudinal	0
B01.020	<i>Head Welds</i>	
B01.021	Circumferential	0
B01.022	Meridional	0
B01.030	Shell to Flange Welds	0
B01.040	Head to Flange Welds	0
B01.050	<i>Repair Welds</i>	
B01.051	Beltline Region	NA
TOTALS		0

Examination Category B-B Pressure Retaining Welds In Vessels Other than Reactor Vessels

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Pressurizer	
B02.010	Shell to Head Welds	
B02.011	Circumferential	0
B02.012	Longitudinal	0
B02.020	Head Welds	
B02.021	Circumferential	NA
B02.022	Meridional	NA
	Steam Generators (Primary Side)	
B02.030	Head Welds	
B02.031	Circumferential	NA
B02.032	Meridional	NA
B02.040	Tubesheet to Head Weld	0
	Heat Exchangers (Primary Side) – Head	
B02.050	Head Welds	
B02.051	Circumferential	NA
B02.052	Meridional	NA
	Heat Exchangers (Primary Side) – Shell	
B02.060	Tubesheet to Head Welds	NA
B02.070	Longitudinal Welds	NA
B02.080	Tubesheet to Shell Welds	NA
TOTALS		0

**Examination Category B-D Full Penetration Welds of Nozzles In Vessels
Inspection Program B**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<i>Reactor Vessel</i>	
B03.090	Nozzle-to-Vessel Welds	0
B03.100	Nozzle Inside Radius Section	0
	<i>Pressurizer</i>	
B03.110	Nozzle-to-Vessel Welds	0
B03.120	Nozzle Inside Radius Section	0
	<i>Steam Generators (Primary Side)</i>	
B03.130	Nozzle-to-Vessel Welds	NA
B03.140	Nozzle Inside Radius Section	2
	<i>Heat Exchangers (Primary Side)</i>	
B03.150	Nozzle-to-Vessel Welds	NA
B03.160	Nozzle Inside Radius Section	NA
TOTALS		2

**Examination Category B-E Pressure Retaining Partial Penetration
Welds In Vessels**

REFERENCE SECTION 11.0 OF THIS REPORT

Examination Category B-F Pressure Retaining Dissimilar Metal Welds

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Reactor Vessel	
B05.010	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	0
B05.020	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	NA
B05.030	Nozzle-to-Safe End Socket Welds	NA
	Pressurizer	
B05.040	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	0
B05.050	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	NA
B05.060	Nozzle-to-Safe End Socket Welds	NA
	Steam Generator	
B05.070	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	2
B05.080	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	NA
B05.090	Nozzle-to-Safe End Socket Welds	NA
	Heat Exchangers	
B05.100	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	NA
B05.110	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	NA
B05.120	Nozzle-to-Safe End Socket Welds	NA

Examination Category B-F (Continued)

Item Number	Description	Total Examined During Outage
	Piping	
B05.130	Nominal Pipe Size 4" or Larger Dissimilar Metal Butt Welds	2
B05.140	Nominal Pipe Size Less Than 4" Dissimilar Metal Butt Welds	NA
B05.150	Dissimilar Metal Socket Welds	NA
TOTALS		4

Examination Category B-G-1

Pressure Retaining Bolting, Greater Than 2" In Diameter

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Reactor Vessel	
B06.010	Closure Head Nuts	0
B06.020	Closure Studs (in place)	0
B06.030	Closure Studs (when removed)	0
B06.040	Threads in Flange	0
B06.050	Closure Washers, Bushings	0
	Pressurizer	
B06.060	Bolts and Studs	NA
B06.070	Flange Surface (when connection disassembled)	NA
B06.080	Nuts, Bushings and Washers	NA
	Steam Generators	
B06.090	Bolts and Studs	NA
B06.100	Flange Surface (when connection disassembled)	NA
B06.110	Nuts, Bushings and Washers	NA
	Heat Exchangers	
B06.120	Bolts and Studs	NA
B06.130	Flange Surface (when connection disassembled)	NA
B06.140	Nuts, Bushings and Washers	NA
	Piping	
B06.150	Bolts and Studs	NA
B06.160	Flange Surface (when connection disassembled)	NA
B06.170	Nuts, Bushings and Washers	NA

Examination Category B-G-1

(Continued)

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Pumps	
B06.180	Bolts and Studs	1
B06.190	Flange Surface (when connection disassembled)	0
B06.200	Nuts , Bushings and Washers	NA
	Valves	
B06.210	Bolts and Studs	NA
B06.220	Flange Surface (when connection disassembled)	NA
B06.230	Nuts, Bushings and Washers	NA
TOTALS		1

Examination Category B-G-2

Pressure Retaining Bolting, 2" and Less In Diameter

Item Number	Description	Total Examined During Outage
	Reactor Vessel	
B07.010	Bolts, Studs and Nuts	NA
	Pressurizer	
B07.020	Bolts, Studs and Nuts	0
	Steam Generators	
B07.030	Bolts, Studs and Nuts	2
	Heat Exchangers	
B07.040	Bolts, Studs and Nuts	NA
	Piping	
B07.050	Bolts, Studs and Nuts	3
	Pumps	
B07.060	Bolts, Studs and Nuts	0
	Valves	
B07.070	Bolts, Studs and Nuts	1
	CRD Housing	
B07.080	Bolts, Studs and Nuts in CRD Housing (when disassembled)	0
TOTALS		6

Examination Category B-H

Integral Attachments for Vessels

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Reactor Vessel	
B08.010	Integrally Welded Attachments	0
	Pressurizer	
B08.020	Integrally Welded Attachments	1
	Steam Generators	
B08.030	Integrally Welded Attachments	NA
	Heat Exchangers	
B08.040	Integrally Welded Attachments	NA
TOTALS		1

Examination Category B-J

Pressure Retaining Welds in Piping

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B09.010	Nominal Pipe Size 4" or Larger	
B09.011	Circumferential Welds	15
B09.012	Longitudinal Welds ¹	0
B09.020	Nominal Pipe Size Less than 4"	
B09.021	Circumferential Welds	3
B09.022	Longitudinal Welds ¹	NA

¹ Reference Code Case N-524 "Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping Section XI, Division 1."

Examination Category B-J

(Continued)

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B09.030	Branch Pipe Connection Welds	
B09.031	Nominal Pipe Size 4" or Larger	0
B09.032	Less than Nominal Pipe Size 4"	0
B09.040	Socket Welds	15
TOTALS		33

Examination Category B-K-1

**Integral Attachments for Piping,
Pumps and Valves**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Piping	
B10.010	Integrally Welded Attachments	NA
	Pumps	
B10.020	Integrally Welded Attachments	NA
	Valves	
B10.030	Integrally Welded Attachments	NA
TOTALS		NA

**Examination Category B-L-1, B-M-1 Pressure Retaining Welds in
Pump Casings and Valve Bodies**

B-L-2, B-M-2 Pump Casings and Valve Bodies

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Pumps	
B12.010	Pump Casing Welds (B-L-1)	NA
B12.020	Pump Casing (B-L-2) (when disassembled for Maintenance Repair or Volumetric Examination)	0
	Valves	
B12.030	Valves, Nominal Pipe Size Less than 4" Valve Body Welds (B-M-1)	NA
B12.040	Valves, Nominal Pipe Size 4" or Larger Valve Body Welds (B-M-1)	0
B12.050	Valve Body, Exceeding 4" Nominal Pipe Size (B-M-2)	3
TOTALS		3

- Examination Category B-N-1 Interior of Reactor Vessel**
- B-N-2 Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessels**
- B-N-3 Removable Core Support Structures**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Reactor Vessel	
B13.010	Vessel Interior (B-N-1)	1
	Reactor Vessel (PWR)	
B13.050	Interior Attachments Within the Beltline Region (B-N-2)	NA
B13.060	Interior Attachments Beyond Beltline Region (B-N-2)	0
B13.070	Core Support Structure (B-N-3)	0
TOTALS		1

Examination Category B-O Pressure Retaining Welds In Control Rod Housings

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Reactor Vessel	
B14.010	Welds in CRD Housing	0
TOTALS		0

Examination Category B-P All Pressure Retaining Components

REFERENCE SECTION 11.0 OF THIS REPORT

Examination Category B-Q Steam Generator Tubing

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B16.010	Steam Generator Tubing in Straight Tube Design	NA
B16.020	Steam Generator Tubing in U-Tube Design ²	NA
TOTALS		NA

**Examination Category F-A Class 1 Component Supports
(Code Case N-491)**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
F01.010	Class 1 Piping Supports (One-Directional)	4
F01.011	Class 1 Piping Supports (Multi-Directional)	0
F01.012	Class 1 Piping Supports (Thermal Movement)	0
F01.040	Class 1 Supports other than Piping	0
F01.050	Class 1 Snubbers ³	NA
TOTALS		4

² Steam Generator Tubing is examined and documented by the Steam Generator Maintenance Group of the Nuclear Services Division as required by the Station Technical Specifications and is not included in this report.

³ See Request for Relief 96-01 in Section 9 of this report.

2.2 Class 2 Inspections

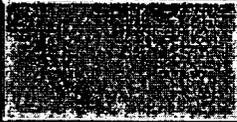
Examination Category C-A

Pressure Retaining Welds In Pressure Vessels

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C01.010	Shell Circumferential Welds	0
C01.020	Head Circumferential Welds	2
C01.030	Tubesheet to Shell Weld	1
TOTALS		3

Examination Category C-B

Pressure Retaining Nozzle Welds In Vessels

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C02.010	Nozzles In Vessels $\leq 1/2$ " Nominal Thickness	
C02.011	Nozzle to Shell (or Head) Weld	0
C02.020	Nozzles Without Reinforcing Plate In Vessels $>1/2$ " Nominal Thickness	
C02.021	Nozzle to Shell (or Head) Weld	0
C02.022	Nozzle Inside Radius Section	0

Examination Category C-B (Continued)

C02.030	Nozzles With Reinforcing Plate In Vessels >1/2" Nominal Thickness	
C02.031	Reinforcing Plate Welds to Nozzle and Vessel	NA
C02.032	Nozzle to Shell (or Head) Welds when Inside of Vessel is Accessible	NA
C02.033	Nozzle to Shell (or Head) Welds when Inside of Vessel is Inaccessible	NA
TOTALS		0

Examination Category C-C Integral Attachments for Vessels, Piping, Pumps, and Valves

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Pressure Vessels	
C03.010	Integral Welded Attachments	0
	Piping	
C03.020	Integrally Welded Attachments	12
	Pumps	
C03.030	Integrally Welded Attachments	1
	Valves	
C03.040	Integrally Welded Attachments	NA
TOTALS		13

Examination Category C-D Pressure Retaining Bolting Greater Than 2" In Diameter

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Pressure Vessels	
C04.010	Bolts and Studs	NA
	Piping	
C04.020	Bolts and Studs	NA
	Pumps	
C04.030	Bolts and Studs	NA
	Valves	
C04.040	Bolts and Studs	NA
TOTALS		NA

Examination Category C-F-1 Pressure Retaining Welds In Austenitic Stainless Steel or High Alloy Piping

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C05.010	Piping Welds \geq 3/8" Nominal Wall Thickness for Piping > Nominal Pipe Size 4"	
C05.011	Circumferential Weld	23
C05.012	Longitudinal Weld ⁴	0

⁴ Reference Code Case N-524 "Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping Section XI, Division 1."

Examination Category C-F-1 (Continued)

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C05.020	Piping Welds > 1/5" Nominal Wall Thickness for Piping ≥ Nominal Pipe Size 2" and ≤ Nominal Pipe Size 4"	
C05.021	Circumferential Weld	15
C05.022	Longitudinal Weld ⁵	0
C05.030	Socket Welds	6
C05.040	Pipe Branch Connections of Branch Piping ≥ Nominal Pipe Size 2"	
C05.041	Circumferential Weld	0
C05.042	Longitudinal Weld ⁵	0
TOTALS		44

Examination Category C-F-2 Pressure Retaining Welds In Carbon or Low Alloy Steel Piping

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C05.050	Piping Welds ≥ 3/8" Nominal Wall Thickness for Piping > Nominal Pipe Size 4"	
C05.051	Circumferential Weld	4
C05.052	Longitudinal Weld ⁵	0

⁵ Reference Code Case N-524 "Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping Section XI, Division 1."

Examination Category C-F-2 (Continued)

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C05.060	Piping Welds > 1/5" Nominal Wall Thickness for Piping ≥ Nominal Pipe Size 2" and ≤ Nominal Pipe Size 4"	
C05.061	Circumferential Weld	NA
C05.062	Longitudinal Weld ⁶	NA
C05.070	Socket Welds	NA
C05.080	Pipe Branch Connections of Branch Piping ≥ Nominal Pipe Size 2"	
C05.081	Circumferential Weld	0
C05.082	Longitudinal Weld ⁶	NA
TOTALS		4

Examination Category C-G Pressure Retaining Welds In Pumps and Valves

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	Pumps	
C06.010	Pump Casing Welds	NA
	Valves	
C06.020	Valve Body Welds	1
TOTALS		1

⁶ Reference Code Case N-524 "Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping Section XI, Division 1."

Examination Category C-H All Pressure Retaining Components

REFERENCE SECTION 11.0 OF THIS REPORT

**Examination Category F-A Class 2 Component Supports
(Code Case N-491)**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
F01.020	Class 2 Piping Supports (One Directional)	18
F01.021	Class 2 Piping Supports (Multi-Directional)	13
F01.022	Class 2 Piping Supports (Thermal Movement)	2
F01.040	Class 2 Supports other than Piping	3
F01.050	Class 2 Snubbers ⁷	NA
TOTALS		36

⁷ See Request for Relief 96-01 in Section 9 of this report.

2.3 Augmented Inspection

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
G01.001	Reactor Coolant Pump Flywheels	0
G02.001	Postulated Pipe Failures Main Steam System	11
G03.001	Thermal Stress Piping (NRC Bulletin 88-08)	0
G04.001	Unguarded Containment Sump Suction Line Piping Weld per 12/1/89 UFSAR Table 1.8-1(Page 49)	1
TOTALS		12

A detailed description of each examination listed in Section 2.1 through 2.3 are located in Section 4.0 of this report. Results of each examination are located in Section 5.0 of this report.

3.0 Second Ten Year Interval Inspection Status

The completion status of inspections required by the 1989 ASME Section XI Code, no Addenda, is summarized in this section. The requirements are listed by the ASME Section XI Examination Category as defined in Table IWB-2500-1 for Class 1 Inspections and Table IWC-2500-1 for Class 2 Inspections. Augmented inspections are also included.

Class 1 Inspections

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	⁸Deferral Allowed
B-A	Pressure Retaining Welds in Reactor Vessel	24	6.5	27.08%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	5	1	20%	No
B-D	Full Penetration Welds of Nozzles in Vessels Inspection Program B	36	12	33.33%	Partial
B-F	Pressure Retaining Dissimilar Metal Welds	46	16.666	36.23%	No
B-G-1	Pressure Retaining Bolting Greater than 2 Inch Diameter	224	74	33.04%	No
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	28	14	50%	No

⁸ Deferral of inspection to the end of the interval as allowed by ASME Section XI Table IWB-2500-1.

Class 1 Inspections (Continued)

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	⁹ Deferral Allowed
B-H	Integral Attachment for Vessels	5	2	40%	No
B-J	Pressure Retaining Welds in Piping	224	94	41.96%	No
B-K-1	Integral Attachments for Piping, Pumps and Valves	N/A	N/A	N/A	N/A
B-L-1	Pressure Retaining Welds in Pump Casings	N/A	N/A	N/A	N/A
B-L-2	Pump Casings	1	0	0%	Yes
B-M-1	Pressure Retaining Welds in Valve Bodies	1	0	0%	Yes
B-M-2	Valve Bodies	7	4	57.14%	Yes
B-N-1	Interior of Reactor Vessel	3	2	66.66%	No
B-N-2	Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessels	2	0	0%	Yes
B-N-3	Removable Core Support Structures	1	0	0%	Yes
B-O	Pressure Retaining Welds in Control Rod Housings	3	0	0%	Yes
B-Q	Steam Generator Tubing ¹⁰	N/A	N/A	N/A	N/A
F-A	Class 1 Component Supports F01.010, F01.011, F01.012 & F01.040 (Code Case N-491)	70	22	31.43%	No

⁹ Deferral of inspection to the end of the interval as allowed by ASME Section XI Table IWB-2500-1.

¹⁰ Steam Generator Tubing is examined and documented by the Steam Generator Maintenance Group of the Nuclear Services Division as required by the Station Technical Specifications and is not included in this report.

Class 2 Inspections

<i>Examination Category</i>	<i>Description</i>	<i>Inspections Required</i>	<i>Inspections Completed</i>	<i>Percentage Completed</i>	<i>Deferral Allowed</i>
C-A	Pressure Retaining Welds in Pressure Vessels	29	9	31.03%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	11	2	18.18%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	68	35	51.47%	No
C-D	Pressure Retaining Bolting Greater Than 2 Inches in Diameter	N/A	N/A	N/A	N/A
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	289	131	45.33%	No
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	46	17	36.96%	No
C-G	Pressure Retaining Welds in Pumps and Valves	20	7	35%	No
F-A	Class 2 Component Supports F01.020, F01.021, F01.022 & F01.040 (Code Case N-491)	228	109	47.81%	No

Augmented Inspections

<u>Description</u>	<u>Percentage</u>
Postulated Pipe Failures - Main Steam System	100% of requirements for EOC10 (Outage 3)
Unguarded Containment Sump Suction Line Piping Weld per 12/1/89 UFSAR Table 1.8-1 (Page 49)	100% of requirements for EOC10 (Outage 3)

4.0 Final Inservice Inspection Plan

The final Inservice Inspection Plan shown in this section lists all ASME Section XI Class 1, ASME Section XI Class 2, and Augmented examinations credited for EOC10 (Outage 3) at Catawba Nuclear Station, Unit 2.

The information shown below is a field description for the reporting format included in this section of the report:

Item Number	= ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), IWF-2500-1 (Class 1 and Class 2), and Augmented Requirements
ID Number	= Unique Identification Number
Iso / Dwg Numbers	= Location and/or Detail Drawings
Proc	= Examination Procedures
Insp Req	= Examination Technique - Magnetic Particle, Dye Penetrant, etc.
Mat / Sch	= General Description of Material
Dia / Thk	= Diameter/Thickness
Cal Blocks	= Calibration Block Number
Comments	= General and/or Detail Description

CATEGORY B-D, Full Penetration Welds of Nozzels In Vessels

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System

Steam Generators (Primary Side)

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
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**** Nozzle Inside Radius Section ****

B03.140.003	2SGB-INLET	NC CNM 2201.01-102/2 CNM 2201.01-106/1	NDE-680	UT	CS	39.000	50302	5.160	Steam Generator 2B Primary Inlet Nozzle (Inside Radius Section)
Class A									
B03.140.004	2SGB-OUTLET	NC CNM 2201.01-102/2 CNM 2201.01-106/1	NDE-680	UT	CS	39.000	50302	5.160	Steam Generator 2B Primary Outlet Nozzle (Inside Radius Section)
Class A									

Total B03.140 Items:	2
Total B03 Items:	2

**CATEGORY B-F, Pressure Retaining
Dissimilar Metal Welds**

Steam Generator

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
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****** NPS 4 or Larger; Nozzle-to-Safe End Butt Welds ******

B05.070.003	2SGB-INLET-SE Circumferential	NC CNM 2201.01-106/1 CN-2NC-011	NDE-610	UT	SS-CS	31.000 2.500		50386	SG2B Inlet Nozzle Safe End
Class A	Dissimilar				Nozzle to Safe End				
B05.070.003A	2SGB-INLET-SE Circumferential	NC CNM 2201.01-106/1 CN-2NC-011	NDE-35	PT	SS-CS	31.000 2.500			SG2B Inlet Nozzle Safe End
Class A	Dissimilar				Nozzle to Safe End				
B05.070.004	2SGB-OUTLET-SE Circumferential	NC CNM 2201.01-106/1 CN-2NC-011	NDE-610	UT	SS-CS	31.000 2.500		50386	SG2B Outlet Nozzle Safe End
Class A	Dissimilar				Nozzle to Safe End				
B05.070.004A	2SGB-OUTLET-SE Circumferential	NC CNM 2201.01-106/1 CN-2NC-011	NDE-35	PT	SS-CS	31.000 2.500			SG2B Outlet Nozzle Safe End
Class A	Dissimilar				Nozzle to Safe End				

Total B05.070 Items: 4

**CATEGORY B-F, Pressure Retaining
Dissimilar Metal Welds**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

Piping

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
**** NPS 4 or Larger; Dissimilar Metal Butt Welds ****									
B05.130.006	2NC11-02	NC CN-2NC-011 CN-2553-1.0	NDE-610	UT	SS-CS	31.000 2.500	50386		UT from Elbow Side To be done with B05.070.003
Class A	Term end Dissimilar				Safe End to Pipe				
B05.130.006A	2NC11-02	NC CN-2NC-011 CN-2553-1.0	NDE-35	PT	SS-CS	31.000 2.500			To be done with B05.070.003A
Class A	Term end Dissimilar				Safe End to Pipe				
B05.130.007	2NC11-03	NC CN-2NC-011 CN-2553-1.0	NDE-610	UT	SS-CS	31.000 2.500	50386		UT from Elbow Side To be done with B05.070.004
Class A	Term end Dissimilar				Safe End to Pipe				
B05.130.007A	2NC11-03	NC CN-2NC-011 CN-2553-1.0	NDE-35	PT	SS-CS	31.000 2.500			To be done with B05.070.004A
Class A	Term end Dissimilar				Safe End to Pipe				
Total B05.130 Items: 4									
Total B05 Items: 8									

**CATEGORY B-G-1, Pressure Retaining
Bolting, Greater than 2" In Diameter**

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System

Pumps

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
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**** Bolts and Studs ****

B06.180.002	2RCP-2B-F	NC CN-2NC-011 CNM 2201.01-115	NDE-948	UT	CS	4.320 24.000	50502		24 Bolts Main Flange
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Class A

Total B06.180 Items: 1

Total B06 Items: 1

**CATEGORY B-G-2, Pressure Retaining
Bolting, 2" And Less In Diameter**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Steam Generators

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****								
B07.030.003	2SGB-MW-W-X	NC CNM 2201.01-59/1 CNM 2201.01-106/1	QAL-13	VT-1	CS	1.880 0.000		SG2B Manway Bolting 16 Studs and Nuts Primary Manway in W-X Quadrant (Inlet Side)
Class A								
B07.030.004	2SGB-MW-Z-W	NC CNM 2201.01-59/1 CNM 2201.01-106/1	QAL-13	VT-1	CS	1.880 0.000		SG2B Manway Bolting 16 Studs and Nuts Primary Manway in Z-W Quadrant (Outlet Side)
Class A								
Total B07.030 Items:		2						

**CATEGORY B-G-2, Pressure Retaining
Bolting, 2" And Less In Diameter**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Piping

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
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**** Bolts, Studs, and Nuts ****

B07.050.015	2NV224-MJ1	NV	CN-2NV-224 CN-2554-1.5	QAL-13	VT-1	CS		1.000 5.750		Flange Bolting 4 Studs, 8 Nuts
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Class A

B07.050.016	2NV224-MJ2	NV	CN-2NV-224 CN-2554-1.5	QAL-13	VT-1	CS		1.000 7.250		Flange Bolting 8 Studs, 16 Nuts
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Class A

B07.050.017	2NV323-MJ1	NV	CN-2NV-323 CN-2554-1.5	QAL-13	VT-1	CS		1.000 5.750		Flange Bolting 4 Studs, 8 Nuts
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Class A

Total B07.050 Items: 3

**CATEGORY B-G-2, Pressure Retaining
Bolting, 2" And Less In Diameter**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Valves

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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****** Bolts, Studs, and Nuts ******

B07.070.002	2NC-27	NC CN-2NC-24 CNM-1205.06-41	QAL-13	VT-1	SS	0.880 3.725		4"X6" Valve 8 Studs, 8 Nuts
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Class A

Total B07.070 Items:	1
Total B07 Items:	6

CATEGORY B-H. Integral Attachments for Vessels

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

Pressurizer

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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****** Integrally Welded Attachments ******

B08.020.003	2PZR-W10B	NC	NDE-25	MT	CS		4.000	Pressurizer Seismic Lug To Shell X-Y Quadrant
		CNM 2201.01-110/1					4.000	
	Class A	CNM 2201.01-110/2						

Total B08.020 Items: 1

Total B08 Items: 1

CATEGORY B-J, Pressure Retaining Welds In Piping

NPS 4 or Larger

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
**** Circumferential Welds ****									
B09.011.024	2NC26-3	NC CN-2NC-26 CN-2553-1.0	NDE-600	UT	SS 160	6.000 0.719	*		* Reference General Requirements Section 8.1.10
Class A	Circumferential								45 Degree Elbow to Pipe
B09.011.024A	2NC26-3	NC CN-2NC-26 CN-2553-1.0	NDE-35	PT	SS 160	6.000 0.719			
Class A	Circumferential								45 Degree Elbow to Pipe
B09.011.025	2NC26-4	NC CN-2NC-26 CN-2553-1.0	NDE-600	UT	SS 160	6.000 0.719	*		* Reference General Requirements Section 8.1.10
Class A	Circumferential								Pipe to 90 Degree Elbow
B09.011.025A	2NC26-4	NC CN-2NC-26 CN-2553-1.0	NDE-35	PT	SS 160	6.000 0.719			
Class A	Circumferential								Pipe to 90 Degree Elbow
B09.011.028	2NC33-14	NC CN-2NC-33 CN-2553-1.1	NDE-600	UT	SS 160	4.000 0.513	*		* Reference General Requirements Section 8.1.10
Class A	Circumferential								90 Degree Elbow to Pipe
B09.011.028A	2NC33-14	NC CN-2NC-33 CN-2553-1.1	NDE-35	PT	SS 160	4.000 0.513			
Class A	Circumferential								90 Degree Elbow to Pipe
B09.011.030	2NC33-2	NC CN-2NC-33 CN-2553-1.1	NDE-600	UT	SS 160	4.000 0.531	*		* Reference General Requirements Section 8.1.10
Class A	Circumferential								Pipe to 90 Degree Elbow
B09.011.030A	2NC33-2	NC CN-2NC-33 CN-2553-1.1	NDE-35	PT	SS 160	4.000 0.531			
Class A	Circumferential								Pipe to 90 Degree Elbow

CATEGORY B-J. Pressure Retaining Welds In Piping

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NPS 4 or Larger

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
B09.011.031	2NC42-11	NC	CN-2NC-42 CN-2553-1.0	NDE-600	UT	SS 140	12.000 1.125		*	* Reference General Requirements Section 8.1.10
Class A	Circumferential									12x6 Reducing Tee to 45 Degree Elbow
B09.011.031A	2NC42-11	NC	CN-2NC-42 CN-2553-1.0	NDE-35	PT	SS 140	12.000 1.125			
Class A	Circumferential									12x6 Reducing Tee to 45 Degree Elbow
B09.011.032	2NC42-12	NC	CN-2NC-42 CN-2553-1.0	NDE-600	UT	SS 140	12.000 1.125		*	* Reference General Requirements Section 8.1.10
Class A	Circumferential									45 Degree Elbow to Pipe
B09.011.032A	2NC42-12	NC	CN-2NC-42 CN-2553-1.0	NDE-35	PT	SS 140	12.000 1.125			
Class A	Circumferential									45 Degree Elbow to Pipe
B09.011.054	2ND67-11	ND	CN-2ND-67 CN-2561-1.0	NDE-600	UT	SS 140	12.000 1.125		*	* Reference General Requirements Section 8.1.10
Class A	Circumferential									90 Degree Elbow to Pipe
B09.011.054A	2ND67-11	ND	CN-2ND-67 CN-2561-1.0	NDE-35	PT	SS 140	12.000 1.125			
Class A	Circumferential									90 Degree Elbow to Pipe
B09.011.055	2ND67-8	ND	CN-2ND-67 CN-2561-1.0	NDE-600	UT	SS 140	12.000 1.125		*	* Reference General Requirements Section 8.1.10
Class A	Circumferential									Pipe to 90 Degree Elbow
B09.011.055A	2ND67-8	ND	CN-2ND-67 CN-2561-1.0	NDE-35	PT	SS 140	12.000 1.125			
Class A	Circumferential									Pipe to 90 Degree Elbow
B09.011.056	2ND67-9	ND	CN-2ND-67 CN-2561-1.0	NDE-600	UT	SS 140	12.000 1.125		*	* Reference General Requirements Section 8.1.10
Class A	Circumferential									90 Degree Elbow to Pipe

CATEGORY B-J. Pressure Retaining Welds In Piping

NPS 4 or Larger

DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
B09.011.056A	2ND67-9	ND CN-2ND-67	NDE-35	PT	SS		12.000		
	Circumferential	CN-2561-1.0			140		1.125		
	Class A								90 Degree Elbow to Pipe
B09.011.083	2NI63-3	NI CN-2NI-63	NDE-600	UT	SS		10.000	*	* Reference General Requirements Section 8.1.10
	Circumferential	CN-2562-1.1			140		1.000		
	Class A								Pipe to 90 Degree Elbow
B09.011.083A	2NI63-3	NI CN-2NI-63	NDE-35	PT	SS		10.000		
	Circumferential	CN-2562-1.1			140		1.000		
	Class A								Pipe to 90 Degree Elbow
B09.011.084	2NI63-5	NI CN-2NI-63	NDE-600	UT	SS		10.000	*	* Reference General Requirements Section 8.1.10
	Circumferential	CN-2562-1.1			140		1.000		
	Class A								Pipe to 90 Degree Elbow
B09.011.084A	2NI63-5	NI CN-2NI-63	NDE-35	PT	SS		10.000		
	Circumferential	CN-2562-1.1			140		1.000		
	Class A								Pipe to 90 Degree Elbow
B09.011.085	2NI70-1	NI CN-2NI-70	NDE-600	UT	SS		6.000	*	* Reference General Requirements Section 8.1.10
	Circumferential	CN-2562-1.3			160		0.719		
	Class A								Elbow to Pipe
B09.011.085A	2NI70-1	NI CN-2NI-70	NDE-35	PT	SS		6.000		
	Circumferential	CN-2562-1.3			160		0.719		
	Class A								Elbow to Pipe
B09.011.086	2NI70-4	NI CN-2NI-70	NDE-600	UT	SS		6.000	*	* Reference General Requirements Section 8.1.10
	Circumferential	CN-2562-1.3			160		0.719		
	Class A								Valve (2NI175) to Pipe
B09.011.086A	2NI70-4	NI CN-2NI-70	NDE-35	PT	SS		6.000		
	Circumferential	CN-2562-1.3			160		0.719		
	Class A								Valve (2NI175) to Pipe

CATEGORY B-J. Pressure Retaining Welds In Piping

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

NPS 4 or Larger

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
B09.011.091	2NI75-6	NI	CN-2NI-75 CN-2562-1.3	NDE-600	UT	SS 160	6.000 0.719		*	* Reference General Requirements Section 8.1.10
Class A		Pipe to 90 Degree Elbow								
B09.011.091A	2NI75-6	NI	CN-2NI-75 CN-2562-1.3	NDE-35	PT	SS 160	6.000 0.719			
Class A		Pipe to 90 Degree Elbow								
B09.011.092	2NI75-8	NI	CN-2NI-75 CN-2562-1.3	NDE-600	UT	SS 160	6.000 0.719		*	* Reference General Requirements Section 8.1.10
Class A		90 Degree Elbow to Pipe								
B09.011.092A	2NI75-8	NI	CN-2NI-75 CN-2562-1.3	NDE-35	PT	SS 160	6.000 0.719			
Class A		90 Degree Elbow to Pipe								
Total B09.011 Items:		30								

CATEGORY B-J, Pressure Retaining Welds In Piping

Less Than NPS 4

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
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****** Circumferential Welds ******

B09.021.029	2NV119-1	NV CN-2NV-119 CN-2554-1.0	NDE-35	PT	SS 160	3.000 0.438		
Class A	Circumferential Stress weld				VLV 2NV040 to Pipe			
B09.021.030	2NV119-2	NV CN-2NV-119 CN-2554-1.0	NDE-35	PT	SS 160	3.000 0.438		
Class A	Circumferential Stress weld				Pipe to VLV 2NV041			
B09.021.033	2NV209-RCP2A-1	NV CN-2NV-209 CNM 1201.01-151	NDE-35	PT	SS 80	1.500 0.200		Vendor Weld Pipe to RCP2A Weld Neck Flange
Class A	Circumferential				Pipe to Flange			

Total B09.021 Items: 3

CATEGORY B-J, Pressure Retaining Welds In Piping

Socket Welds

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
B09.040.044	2NV111-4	NV CN-2NV-111 CN-2554-1.0	NDE-35	PT	SS 160		2.000 0.344	Class A Pipe to 45 Degree Elbow
B09.040.045	2NV111-6	NV CN-2NV-111 CN-2554-1.0	NDE-35	PT	SS 160		2.000 0.344	Class A Pipe to Tee
B09.040.048	2NV209-10	NV CN-2NV-209 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	Class A Pipe to 2X3/4 Half Couple
B09.040.049	2NV209-19	NV CN-2NV-209 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	Class A 90 Degree Elbow to Pipe
B09.040.050	2NV209-2	NV CN-2NV-209 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	Class A Pipe to VLV 2NV049
B09.040.051	2NV209-27	NV CN-2NV-209 CN-2554-1.5	NDE-35	PT	SS 160		1.500 0.281	Class A 2X1 1/2 Reducing Insert to Pipe
B09.040.052	2NV209-28	NV CN-2NV-209 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	Class A Pipe to Flange
B09.040.053	2NV209-3	NV CN-2NV-209 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	Class A VLV 2NV209 to Pipe

CATEGORY B-J, Pressure Retaining Welds In Piping

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservive Inspection Database Management System**

Socket Welds

Catawba 2

Inservive Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
B09.040.054	2NV209-32	NV CN-2NV-209 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	
Class A	Socket							Tee to Pipe
B09.040.055	2NV222-15	NV CN-2NV-222 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	
Class A	Socket							Pipe to 90 Degree Elbow
B09.040.056	2NV222-17	NV CN-2NV-222 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	
Class A	Socket							Pipe to Flange
B09.040.057	2NV222-24	NV CN-2NV-222 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	
Class A	Socket							Tee to Pipe
B09.040.058	2NV222-26	NV CN-2NV-222 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	
Class A	Socket							Pipe to Tee
B09.040.059	2NV222-8	NV CN-2NV-222 CN-2554-1.5	NDE-35	PT	SS 160		2.000 0.344	
Class A	Socket							90 Degree Elbow to Pipe
B09.040.080	2NVRCP2A-1	NV CNM 1201.01-115 CNM 1201.01-151	NDE-35	PT	SS 80		1.500 0.200	Vendor Weld Pipe to RCP2A Thermal Barrier Flange
Class A	Socket							Pipe to Flange

Total B09.040 Items: 15

Total B09 Items: 48

CATEGORY B-M-2. Valve Bodies

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

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Inservice Inspection Plan for Interval 2 Outage 3

Valves

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS	
**** Valve Body, Exceeding NPS 4 ****										
B12.050.004H	2NI-181	NI	CN-2NI-75 CNM-1205.00-63	QAL-14	VT-3	SS 160		6.000 0.719	Inspect one of the following (2NI126,134,157,160,175,176,180 or 181) if disassembled	
Class A										
B12.050.006C	2NI-70	NI	CN-2NI-185 CNM-1205.00-62	QAL-14	VT-3	SS 140		10.000 1.000	Inspect one of the following (2NI-59,60,70,71,81,82,93 or 94) if disassembled	
Class A										
B12.050.006D	2NI-71	NI	CN-2NI-185 CNM-1205.00-62	QAL-14	VT-3	SS 140		10.000 1.000	Inspect one of the following (2NI-59,60,70,71,81,82,93 or 94) if disassembled	
Class A										
Total B12.050 Items:										3
Total B12 Items:										3

CATEGORY B-N-1, Interior of Reactor Vessel

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Reactor Vessel

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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****** Vessel Interior ******

B13.010.001	2RPV-INTERIOR	NC	QAL-14	VT-3	SS		0.000	Area Above And Below Core Made Accessible During Normal Refueling Outages
	Class A	CNM 2201.01-51 CNM 2201.01-67					0.000	

Total B13.010 Items: 1

Total B13 Items: 1

**CATEGORY C-A. Pressure Retaining Welds
In Pressure Vessels**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Head Circumferential Welds

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C01.020.010	2VCT-LH-SH	NV CN-2554-1.1	NDE-630	UT	SS	90.000	50469		Volume Control Tank Lower Head to Shell
	Circumferential	CNM 2201.04-6/1				0.312			
	Class B	CNM 2201.04-7/1		Head to Shell					
C01.020.011	2VCT-UH-SH	NV CN-2554-1.1	NDE-630	UT	SS	90.000	50469		Volume Control Tank Upper Head to Shell
	Circumferential	CNM 2201.04-6/1				0.312			
	Class B	CNM 2201.04-7/1		Head to Shell					
Total C01.020 Items:		2							

**CATEGORY C-A. Pressure Retaining Welds
In Pressure Vessels**

Tubesheet-to-Shell Weld

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C01.030.008	2BNSHX-3-7	NS CN-2563-1.0	NDE-630	UT	SS	52.750	50380		Containment Spray Heat Exchanger 2B Channel to Tubesheet Pc. 3 to Pc. 7
	Circumferential	CNM 1201.06-90				0.750			
	Class B	CNM 1201.06-91			Channel to Tubesheet				
Total C01.030 Items:		1							
Total C01 Items:		3							

**CATEGORY C-C, Integral Attachments For
Vessels, Piping, Pumps, And Valves**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Piping

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C03.020.087	2-R-SM-1553	SM CN-2491-SM003 CN-2593-1.0	NDE-25	MT	CS			34.000 0.750	Welded Attachment
Class B									
C03.020.088	2-R-SM-1555	SM CN-2491-SM003 CN-2593-1.0	NDE-25	MT	CS			34.000 0.750	Welded Attachment
Class B									
C03.020.089	2-R-SM-1556	SM CN-2491-SM003 CN-2593-1.0	NDE-25	MT	CS			34.000 0.750	Welded Attachment
Class B									
C03.020.090	2-R-SM-1557	SM CN-2491-SM003 CN-2593-1.0	NDE-25	MT	CS			34.000 0.750	Welded Attachment
Class B									
Total C03.020 Items: 12									

**CATEGORY C-C, Integral Attachments For
Vessels, Piping, Pumps, And Valves**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Pumps

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
**** Integrally Welded Attachments ****									
C03.030.001	2RHRPA-LUGS	ND CNM-1201.05-14 CNM-1201.05-270	NDE-35	PT	SS		0.000 0.000		Residual Heat Removal Pump 2A Lugs to Pump Casing (3 Lugs)
Class B									

Total C03.030 Items: 1

Total C03 Items: 13

**CATEGORY C-F-1, Pressure Retaining Welds
In Austenitic SS or High Alloy Piping**

DUKE ENERGY CORPORATION
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Piping Welds \geq 3/8 In. Nominal Wall Thickness
for Piping $>$ NPS 4

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****								
C05.011.013	2CA156-30	CA CN-2CA-156	NDE-600	UT	SS	6.000	*	* Reference General Requirements Section 8.1.10
	Circumferential	CN-2592-1.1			80	0.432		
Class B				Pipe to 90 Degree Elbow				
C05.011.013A	2CA156-30	CA CN-2CA-156	NDE-35	PT	SS	6.000		
	Circumferential	CN-2592-1.1			80	0.432		
Class B				Pipe to 90 Degree Elbow				
C05.011.014	2CA156-31	CA CN-2CA-156	NDE-600	UT	SS	6.000	*	* Reference General Requirements Section 8.1.10
	Circumferential	CN-2592-1.1			80	0.432		
Class B				90 Degree Elbow to Pipe				
C05.011.014A	2CA156-31	CA CN-2CA-156	NDE-35	PT	SS	6.000		
	Circumferential	CN-2592-1.1			80	0.432		
Class B				90 Degree Elbow to Pipe				
C05.011.015	2CA156-32	CA CN-2CA-156	NDE-600	UT	SS	6.000	*	* Reference General Requirements Section 8.1.10
	Circumferential	CN-2592-1.1			80	0.432		
Class B				Pipe to 90 Degree Elbow				
C05.011.015A	2CA156-32	CA CN-2CA-156	NDE-35	PT	SS	6.000		
	Circumferential	CN-2592-1.1			80	0.432		
Class B				Pipe to 90 Degree Elbow				
C05.011.051	2ND10-8	ND CN-2ND-10	NDE-600	UT	SS	12.000	*	* Reference General Requirements Section 8.1.10
	Circumferential	CN-2561-1.0			STD	0.375		
Class B				Pipe to 90 Degree Elbow				
C05.011.051A	2ND10-8	ND CN-2ND-10	NDE-35	PT	SS	12.000		
	Circumferential	CN-2561-1.0			STD	0.375		
Class B				Pipe to 90 Degree Elbow				

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservive Inspection Database Management System

**CATEGORY C-F-1. Pressure Retaining Welds
In Austenitic SS or High Alloy Piping**

**Piping Welds \geq 3/8 In. Nominal Wall Thickness
for Piping $>$ NPS 4**

Catawba 2

Inservive Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C05.011.052	2ND10-9	ND	CN-2ND-10	NDE-600	UT	SS	12.000	*	*	Reference General Requirements Section 8.1.10
	Circumferential		CN-2561-1.0			STD	0.375			
Class B										90 Degree Elbow to Pipe
C05.011.052A	2ND10-9	ND	CN-2ND-10	NDE-35	PT	SS	12.000			
	Circumferential		CN-2561-1.0			STD	0.375			
Class B										90 Degree Elbow to Pipe
C05.011.053	2ND15-17	ND	CN-2ND-15	NDE-600	UT	SS	12.000	*	*	Reference General Requirements Section 8.1.10
	Circumferential		CN-2561-1.1			STD	0.375			
Class B										Pipe to 90 Degree Elbow
C05.011.053A	2ND15-17	ND	CN-2ND-15	NDE-35	PT	SS	12.000			
	Circumferential		CN-2561-1.1			STD	0.375			
Class B										Pipe to 90 Degree Elbow
C05.011.054	2ND15-18	ND	CN-2ND-15	NDE-600	UT	SS	12.000	*	*	Reference General Requirements Section 8.1.10
	Circumferential		CN-2561-1.1			STD	0.375			
Class B										90 Degree Elbow to Pipe
C05.011.054A	2ND15-18	ND	CN-2ND-15	NDE-35	PT	SS	12.000			
	Circumferential		CN-2561-1.1			STD	0.375			
Class B										90 Degree Elbow to Pipe
C05.011.055	2ND16-2	ND	CN-2ND-16	NDE-600	UT	SS	12.000	*	*	Reference General Requirements Section 8.1.10
	Circumferential		CN-2561-1.1			STD	0.375			
Class B										90 Degree Elbow to Pipe
C05.011.055A	2ND16-2	ND	CN-2ND-16	NDE-35	PT	SS	12.000			
	Circumferential		CN-2561-1.1			STD	0.375			
Class B										90 Degree Elbow to Pipe
C05.011.056	2ND16-3	ND	CN-2ND-16	NDE-600	UT	SS	12.000	*	*	Reference General Requirements Section 8.1.10
	Circumferential		CN-2561-1.1			STD	0.375			
Class B										Pipe to 90 Degree Elbow

**CATEGORY C-F-1, Pressure Retaining Welds
In Austenitic SS or High Alloy Piping**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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**Piping Welds \geq 3/8 In. Nominal Wall Thickness
for Piping $>$ NPS 4**

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
C05.011.056A	2ND16-3 Circumferential	ND CN-2ND-16 CN-2561-1.1	NDE-35	PT	SS STD	12.000 0.375		
Class B				Pipe to 90 Degree Elbow				
C05.011.057	2ND16-6 Circumferential	ND CN-2ND-16 CN-2561-1.1	NDE-600	UT	SS 40	14.000 0.438	*	* Reference General Requirements Section 8.1.10
Class B				14X12 Reducer to Tee				
C05.011.057A	2ND16-6 Circumferential	ND CN-2ND-16 CN-2561-1.1	NDE-35	PT	SS 40	14.000 0.438		
Class B				14X12 Reducer to Tee				
C05.011.058	2ND16-7 Circumferential	ND CN-2ND-16 CN-2561-1.1	NDE-600	UT	SS 40	14.000 0.438	*	* Reference General Requirements Section 8.1.10
Class B				Tee to Pipe				
C05.011.058A	2ND16-7 Circumferential	ND CN-2ND-16 CN-2561-1.1	NDE-35	PT	SS 40	14.000 0.438		
Class B				Tee to Pipe				
C05.011.059	2ND18-2 Circumferential	ND CN-2ND-18 CN-2561-1.1	NDE-600	UT	SS 40	14.000 0.438	*	* Reference General Requirements Section 8.1.10
Class B				Pipe to 45 Degree Elbow				
C05.011.059A	2ND18-2 Circumferential	ND CN-2ND-18 CN-2561-1.1	NDE-35	PT	SS 40	14.000 0.438		
Class B				Pipe to 45 Degree Elbow				
C05.011.060	2ND18-8 Circumferential	ND CN-2ND-18 CN-2561-1.1	NDE-600	UT	SS STD	12.000 0.375	*	* Reference General Requirements Section 8.1.10
Class B				Pipe to 90 Degree Elbow				
C05.011.060A	2ND18-8 Circumferential	ND CN-2ND-18 CN-2561-1.1	NDE-35	PT	SS STD	12.000 0.375		
Class B				Pipe to 90 Degree Elbow				

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Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

**Piping Welds \geq 3/8 In. Nominal Wall Thickness
 for Piping $>$ NPS 4**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.011.061	2ND18-9	ND	CN-2ND-18 CN-2561-1.1	NDE-600	UT	SS STD	12.000 0.375	*	* Reference General Requirements Section 8.1.10
Class B	Circumferential								90 Degree Elbow to Pipe
C05.011.061A	2ND18-9	ND	CN-2ND-18 CN-2561-1.1	NDE-35	PT	SS STD	12.000 0.375		
Class B	Circumferential								90 Degree Elbow to Pipe
C05.011.062	2ND19-13	ND	CN-2ND-19 CN-2561-1.1	NDE-600	UT	SS 40	14.000 0.438	*	Residual Heat Removal Pump 2B * Reference General Requirements Section 8.1.10
Class B	Circumferential Term end								Flange to RHR Pump 2B
C05.011.062A	2ND19-13	ND	CN-2ND-19 CN-2561-1.1	NDE-35	PT	SS 40	14.000 0.438		Residual Heat Removal Pump 2B
Class B	Circumferential Term end								Flange to RHR Pump 2B
C05.011.063	2ND19-9	ND	CN-2ND-19 CN-2561-1.1	NDE-600	UT	SS 40	14.000 0.438	*	* Reference General Requirements Section 8.1.10
Class B	Circumferential								Flange to Pipe
C05.011.063A	2ND19-9	ND	CN-2ND-19 CN-2561-1.1	NDE-35	PT	SS 40	14.000 0.438		
Class B	Circumferential								Flange to Pipe
C05.011.080	2ND32-1	ND	CN-2ND-32 CN-2561-1.0	NDE-600	UT	SS STD	12.000 0.375	*	* Reference General Requirements Section 8.1.10
Class B	Circumferential								12X4 Reducing Tee to Pipe
C05.011.080A	2ND32-1	ND	CN-2ND-32 CN-2561-1.0	NDE-35	PT	SS STD	12.000 0.375		
Class B	Circumferential								12X4 Reducing Tee to Pipe
C05.011.125	2NI85-2	NI	CN-2NI-85 CN-2562-1.3	NDE-600	UT	SS 160	6.000 0.719	*	* Reference General Requirements Section 8.1.10
Class B	Circumferential								90 Degree Elbow to Pipe

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CATEGORY C-F-1. Pressure Retaining Welds
In Austenitic SS or High Alloy Piping

Piping Welds \geq 3/8 In. Nominal Wall Thickness
for Piping $>$ NPS 4

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
C05.011.125A	2NI85-2	NI	CN-2NI-85	NDE-35	PT	SS	6.000			
	Circumferential		CN-2562-1.3			160	0.719			
Class B 90 Degree Elbow to Pipe										
C05.011.128	2NI85-3	NI	CN-2NI-85	NDE-600	UT	SS	6.000	*		* Reference General Requirements Section 8.1.10
	Circumferential		CN-2562-1.3			160	0.719			
Class B Pipe to 90 Degree Elbow										
C05.011.126A	2NI85-3	NI	CN-2NI-85	NDE-35	PT	SS	6.000			
	Circumferential		CN-2562-1.3			160	0.719			
Class B Pipe to 90 Degree Elbow										
C05.011.127	2NI85-5	NI	CN-2NI-85	NDE-600	UT	SS	6.000	*		* Reference General Requirements Section 8.1.10
	Circumferential		CN-2562-1.3			160	0.719			
Class B 90 Degree Elbow to Pipe										
C05.011.127A	2NI85-5	NI	CN-2NI-85	NDE-35	PT	SS	6.000			
	Circumferential		CN-2562-1.3			160	0.719			
Class B 90 Degree Elbow to Pipe										
C05.011.128	2NI85-6	NI	CN-2NI-85	NDE-600	UT	SS	6.000	*		* Reference General Requirements Section 8.1.10
	Circumferential		CN-2562-1.3			160	0.719			
Class B Pipe to 90 Degree Elbow										
C05.011.128A	2NI85-6	NI	CN-2NI-85	NDE-35	PT	SS	6.000			
	Circumferential		CN-2562-1.3			160	0.719			
Class B Pipe to 90 Degree Elbow										
C05.011.129	2NI85-7	NI	CN-2NI-85	NDE-600	UT	SS	6.000	*		* Reference General Requirements Section 8.1.10
	Circumferential		CN-2562-1.3			160	0.719			
Class B 90 Degree Elbow to Pipe										
C05.011.129A	2NI85-7	NI	CN-2NI-85	NDE-35	PT	SS	6.000			
	Circumferential		CN-2562-1.3			160	0.719			
Class B 90 Degree Elbow to Pipe										

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**Piping Welds \geq 3/8 in. Nominal Wall Thickness
 for Piping $>$ NPS 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.011.130	2N185-8	NI CN-2NI-85	NDE-600	UT	SS	6.000	*	* Reference General Requirements Section 8.1.10
	Circumferential	CN-2562-1.3			160	0.719		
Class B				Pipe to 90 Degree Elbow				
C05.011.130A	2N185-8	NI CN-2NI-85	NDE-35	PT	SS	6.000		
	Circumferential	CN-2562-1.3			160	0.719		
Class B				Pipe to 90 Degree Elbow				

Total C05.011 Items: 46

**CATEGORY C-F-1, Pressure Retaining Welds
In Austenitic SS or High Alloy Piping**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
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**Piping Welds > 1/5 In. Nom Wall For Piping >=
NPS 2 And <= NPS 4**

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
**** Circumferential Weld ****										
005.021.111	2NI200-2	NI	CN-2NI-200	NDE-600	UT	SS	2.000	*		* Reference General Requirements Section 8.1.10
	Circumferential		CN-2562-1.2			80	0.218			
	Class B					Pipe to 3X2 Reducer				
005.021.111A	2NI200-2	NI	CN-2NI-200	NDE-35	PT	SS	2.000			
	Circumferential		CN-2562-1.2			80	0.218			
	Class B					Pipe to 3X2 Reducer				
005.021.112	2NI200-3	NI	CN-2NI-200	NDE-600	UT	SS	3.000	*		* Reference General Requirements Section 8.1.10
	Circumferential		CN-2562-1.2			160	0.300			
	Class B					3X2 Reducer to Flow Orifice				
005.021.112A	2NI200-3	NI	CN-2NI-200	NDE-35	PT	SS	3.000			
	Circumferential		CN-2562-1.2			160	0.300			
	Class B					3X2 Reducer to Flow Orifice				
005.021.113	2NI23-4	NI	CN-2NI-23	NDE-600	UT	SS	4.000	*		* Reference General Requirements Section 8.1.10
	Circumferential		CN-2562-1.2			80	0.337			
	Class B					Pipe to 90 Degree Elbow				
005.021.113A	2NI23-4	NI	CN-2NI-23	NDE-35	PT	SS	4.000			
	Circumferential		CN-2562-1.2			80	0.337			
	Class B					Pipe to 90 Degree Elbow				
005.021.114	2NI23-5	NI	CN-2NI-23	NDE-600	UT	SS	4.000	*		* Reference General Requirements Section 8.1.10
	Circumferential		CN-2562-1.2			80	0.337			
	Class B					90 Degree Elbow to Pipe				
005.021.114A	2NI23-5	NI	CN-2NI-23	NDE-35	PT	SS	4.000			
	Circumferential		CN-2562-1.2			80	0.337			
	Class B					90 Degree Elbow to Pipe				

**CATEGORY C-F-1, Pressure Retaining Welds
In Austenitic SS or High Alloy Piping**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Piping Welds > 1/5 In. Nom Wall For Piping >= NPS 2 And <= NPS 4

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C05.021.115	2NI24-1	NI	CN-2NI-24 CN-2562-1.2	NDE-600	UT	SS 80	4.000 0.337	*	*	Reference General Requirements Section 8.1.10
Class B	Circumferential									Pipe to 90 Degree Elbow
C05.021.115A	2NI24-1	NI	CN-2NI-24 CN-2562-1.2	NDE-35	PT	SS 80	4.000 0.337			
Class B	Circumferential									Pipe to 90 Degree Elbow
C05.021.116	2NI24-10	NI	CN-2NI-24 CN-2562-1.2	NDE-600	UT	SS 80	4.000 0.337	*	*	Reference General Requirements Section 8.1.10
Class B	Circumferential									Pipe to 90 Degree Elbow
C05.021.116A	2NI24-10	NI	CN-2NI-24 CN-2562-1.2	NDE-35	PT	SS 80	4.000 0.337			
Class B	Circumferential									Pipe to 90 Degree Elbow
C05.021.117	2NI24-11	NI	CN-2NI-24 CN-2562-1.2	NDE-600	UT	SS 80	4.000 0.337	*	*	Reference General Requirements Section 8.1.10
Class B	Circumferential									90 Degree Elbow to Pipe
C05.021.117A	2NI24-11	NI	CN-2NI-24 CN-2562-1.2	NDE-35	PT	SS 80	4.000 0.337			
Class B	Circumferential									90 Degree Elbow to Pipe
C05.021.118	2NI24-18	NI	CN-2NI-24 CN-2562-1.2	NDE-600	UT	SS 80	4.000 0.337	*	*	Reference General Requirements Section 8.1.10
Class B	Circumferential									Pipe to 90 Degree Elbow
C05.021.118A	2NI24-18	NI	CN-2NI-24 CN-2562-1.2	NDE-35	PT	SS 80	4.000 0.337			
Class B	Circumferential									Pipe to 90 Degree Elbow
C05.021.119	2NI255-20	NI	CN-2NI-255 CN-2562-1.2	NDE-600	UT	SS 80	2.000 0.218	*	*	Reference General Requirements Section 8.1.10
Class B	Circumferential									Pipe to 3X2 Reducer

**CATEGORY C-F-1, Pressure Retaining Welds
In Austenitic SS or High Alloy Piping**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Piping Welds > 1/5 In. Nom Wall For Piping >= NPS 2 And <= NPS 4

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C05.021.119A	2NI255-20 Circumferential	NI	CN-2NI-255 CN-2562-1.2	NDE-35	PT	SS 80	2.000 0.218			
Class B						Pipe to 3X2 Reducer				
C05.021.120	2NI255-5 Circumferential	NI	CN-2NI-255 CN-2562-1.2	NDE-600	UT	SS 160	3.000 0.438	*		* Reference General Requirements Section 8.1.10
Class B						3X2 Reducer to Flow Orifice				
C05.021.120A	2NI255-5 Circumferential	NI	CN-2NI-255 CN-2562-1.2	NDE-35	PT	SS 160	3.000 0.438			
Class B						3X2 Reducer to Flow Orifice				
C05.021.226	2NV181-1 Circumferential	NV	CN-2NV-181 CN-2554-1.6	NDE-600	UT	SS 40	4.000 0.237	*		Seal Water Heat Exchanger * Reference General Requirements Section 8.1.10
Class B	Term end					Nozzle to Pipe				
C05.021.226A	2NV181-1 Circumferential	NV	CN-2NV-181 CN-2554-1.6	NDE-35	PT	SS 40	4.000 0.237			Seal Water Heat Exchanger
Class B	Term end					Nozzle to Pipe				
C05.021.227	2NV181-14 Circumferential	NV	CN-2NV-181 CN-2554-1.6	NDE-600	UT	SS 40	4.000 0.237	*		* Reference General Requirements Section 8.1.10
Class B						Pipe to 90 Degree Elbow				
C05.021.227A	2NV181-14 Circumferential	NV	CN-2NV-181 CN-2554-1.6	NDE-35	PT	SS 40	4.000 0.237			
Class B						Pipe to 90 Degree Elbow				
C05.021.228	2NV182-1 Circumferential	NV	CN-2NV-182 CN-2554-1.6	NDE-600	UT	SS 40	4.000 0.237	*		Seal Water Heat Exchanger * Reference General Requirements Section 8.1.10
Class B	Term end					Nozzle to Pipe				
C05.021.228A	2NV182-1 Circumferential	NV	CN-2NV-182 CN-2554-1.6	NDE-35	PT	SS 40	4.000 0.237			Seal Water Heat Exchanger
Class B	Term end					Nozzle to Pipe				

**CATEGORY C-F-1. Pressure Retaining Welds
In Austenitic SS or High Alloy Piping**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Piping Welds > 1/5 In. Nom Wall For Piping >= NPS 2 And <= NPS 4

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
C05.021.229	2NV182-3	NV CN-2NV-182 CN-2554-1.6	NDE-600	UT	SS 40	4.000		*	* Reference General Requirements Section 8.1.10
Class B	Circumferential					0.237			90 Degree Elbow to Pipe
C05.021.229A	2NV182-3	NV CN-2NV-182 CN-2554-1.6	NDE-35	PT	SS 40	4.000			
Class B	Circumferential					0.237			90 Degree Elbow to Pipe
C05.021.260	2NV92-11	NV CN-2NV-92 CN-2554-1.1	NDE-600	UT	SS 40	3.000		*	Volume Control Tank * Reference General Requirements Section 8.1.10
Class B	Circumferential Term end					0.216			90 Degree Elbow to Nozzle Volume Control Tank
C05.021.260A	2NV92-11	NV CN-2NV-92 CN-2554-1.1	NDE-35	PT	SS 40	3.000			Volume Control Tank
Class B	Circumferential Term end					0.216			90 Degree Elbow to Nozzle Volume Control Tank

Total C05.021 Items: 30

**CATEGORY C-F-1, Pressure Retaining Welds
In Austenitic SS or High Alloy Piping**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservive Inspection Database Management System**

Socket Welds

Catawba 2

Inservive Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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C05.030.121	2NV262-15	NV CN-2NV-262 CN-2554-1.5	NDE-35	PT	SS 160	2.000 0.344		90 Degree Elbow to Pipe
Class B								
C05.030.122	2NV262-17	NV CN-2NV-262 CN-2554-1.5	NDE-35	PT	SS 160	2.000 0.344		Pipe to 90 Degree Elbow
Class B								
C05.030.123	2NV262-18	NV CN-2NV-262 CN-2554-1.5	NDE-35	PT	SS 160	2.000 0.344		90 Degree Elbow to Pipe
Class B								
C05.030.124	2NV262-21	NV CN-2NV-262 CN-2554-1.5	NDE-35	PT	SS 160	2.000 0.344		Pipe to 90 Degree Elbow
Class B								
C05.030.125	2NV262-4	NV CN-2NV-262 CN-2554-1.5	NDE-35	PT	SS 160	2.000 0.344		Pipe to Full Coupling
Class B								
C05.030.126	2NV262-5	NV CN-2NV-262 CN-2554-1.5	NDE-35	PT	SS 160	2.000 0.344		Full Coupling to Pipe
Class B								

Total C05.030 Items: 6

**CATEGORY C-F-2, Pressure Retaining Welds
In Carbon Or Low Alloy Steel Piping**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

**Piping Welds >= 3/8 In. Nominal Wall Thickness
for Piping > NPS 4**

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
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****** Circumferential Weld ******

C05.051.012	2CA97-10 Circumferential	CA CN-2CA-97 CN-2592-1.1	NDE-600	UT	CS 80	6.000 0.432	*		* Reference General Requirements Section 8.1.10
Class B									90 Degree Elbow to Pipe
C05.051.012A	2CA97-10 Circumferential	CA CN-2CA-97 CN-2592-1.1	NDE-25	MT	CS 80	6.000 0.432			
Class B									90 Degree Elbow to Pipe
C05.051.013	2CA97-9 Circumferential	CA CN-2CA-97 CN-2592-1.1	NDE-600	UT	CS 80	6.000 0.432	*		* Reference General Requirements Section 8.1.10
Class B									Pipe to 90 Degree Elbow
C05.051.013A	2CA97-9 Circumferential	CA CN-2CA-97 CN-2592-1.1	NDE-25	MT	CS 80	6.000 0.432			
Class B									Pipe to 90 Degree Elbow
C05.051.055	2CF65-24 Circumferential	CF CN-2CF-65 CN-2591-1.1	NDE-600	UT	CS 80	16.000 0.844	*		* Reference General Requirements Section 8.1.10
Class B									90 Degree Elbow to VLV 2CF044
C05.051.055A	2CF65-24 Circumferential	CF CN-2CF-65 CN-2591-1.1	NDE-25	MT	CS 80	16.000 0.844			
Class B									90 Degree Elbow to VLV 2CF044
C05.051.056	2CF65-27 Circumferential	CF CN-2CF-65 CN-2591-1.1	NDE-600	UT	CS 80	16.000 0.844	*		Steam Generator 2B * Reference General Requirements Section 8.1.10
Class B	Term end								90 Degree Elbow to SG2B Nozzle
C05.051.056A	2CF65-27 Circumferential	CF CN-2CF-65 CN-2591-1.1	NDE-25	MT	CS 80	16.000 0.844			Steam Generator 2B
Class B	Term end								90 Degree Elbow to SG2B Nozzle

Total C05.051 Items: 8

Total C05 Items: 90

**CATEGORY C-G, Pressure Retaining Welds
In Pumps And Valves**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Valves

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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****** Valve Body Welds ******

C06.020.001	2CF-60	CF	NDE-25	MT	CS		18.000	Valve Body Weld - Valve Numbers in Valve Group 2CF-33, 2CF-42, 2CF-51, 2CF-60
	Circumferential	CN-2591-1.1					1.782	
	Class B	CNM-1205.12-01			Valve Body to Bonnet			

Total C06.020 Items: 1

Total C06 Items: 1

**CATEGORY D-B, Systems In Support Of ECC,
CHR, Atmos. Cleanup, And Reactor RHR**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Integral Attachment

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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****** Component Supports and Restraints ******

D02.020.017	2-R-TE-0022	TE CN-2492-TE001	QAL-14	VT-3	NA		12.000	Welded Attachment
	Rigid Support	CN-2593-1.2					0.750	To Be Done With F01.030.201
	Class C							

Total D02.020 Items: 1

**CATEGORY D-B, Systems In Support Of ECC,
CHR, Atmos. Cleanup, And Reactor RHR**

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Integral Attachment

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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****** Spring Type Supports ******

D02.040.004	2-R-VN-0006 Spring Hgr	VN CN-2493-VN013 CN-2609-5.0	QAL-14	VT-3	NA		26.000 0.750	Welded Attachment To Be Done With F01.032.224
Class C								
D02.040.005	2-R-VN-0011 Spring Hgr	VN CN-2493-VN014 CN-2609-5.0	QAL-14	VT-3	NA		26.000 0.750	Welded Attachment To Be Done With F01.032.225
Class C								
D02.040.006	2-R-VN-0047 Spring Hgr	VN CN-2493-VN011 CN-2609-5.0	QAL-14	VT-3	NA		26.000 0.750	Welded Attachment To Be Done With F01.032.221
Class C								
D02.040.007	2-R-VN-0052 Spring Hgr	VN CN-2493-VN012 CN-2609-5.0	QAL-14	VT-3	NA		26.000 0.750	Welded Attachment To Be Done With F01.032.222
Class C								

Total D02.040 Items:	4
Total D02 Items:	5

CATEGORY F-A. Supports

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Class 1 Piping Supports

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** One-Directional ****								
F01.010.057	2-R-NI-1757	NI CN-2491-NI116 CN-2562-1.1	QAL-14	VT-3	NA		10.000 0.000	
Rigid Support								
Class A								
F01.010.058	2-R-NI-1764	NI CN-2491-NI116 CN-2562-1.1	QAL-14	VT-3	NA		6.000 0.000	
Rigid Support								
Class A								
F01.010.059	2-R-NI-1765	NI CN-2491-NI116 CN-2562-1.1	QAL-14	VT-3	NA		6.000 0.000	
Rigid Support								
Class A								
F01.010.060	2-R-NI-1766	NI CN-2491-NI116 CN-2562-1.1	QAL-14	VT-3	NA		6.000 0.000	
Rigid Support								
Class A								
Total F01.010 Items:		4						

CATEGORY F-A, Supports

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Class 2 Piping Supports

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
F01.020.153	2-R-NV-0249	NV CN-2492-NV037	QAL-14	VT-3	NA		3.000	
	Rigid Support	CN-2554-1.2					0.000	

Class B

Total F01.020 Items: 18

****** Multidirectional ******

F01.021.001	2-R-CA-1571	CA CN-2491-CA009	QAL-14	VT-3	NA		6.000	
	Rigid Support	CN-2592-1.1					0.000	

Class B

F01.021.002	2-R-CA-1575	CA CN-2491-CA009	QAL-14	VT-3	NA		6.000	
	Rigid Support	CN-2592-1.1					0.000	

Class B

F01.021.071	2-R-NI-1672	NI CN-2491-NI042	QAL-14	VT-3	NA		8.000	
	Rigid Support	CN-2562-1.3					0.000	

Class B

F01.021.072	2-R-NI-1685	NI CN-2491-NI054	QAL-14	VT-3	NA		6.000	
	Rigid Support	CN-2562-1.3					0.000	

Class B

F01.021.096	2-R-NS-1171	NS CN-2491-NS005	QAL-14	VT-3	NA		8.000	
	Rigid Support	CN-2563-1.0					0.000	

Class B

F01.021.097	2-R-NS-1172	NS CN-2491-NS005	QAL-14	VT-3	NA		8.000	
	Rigid Support	CN-2563-1.0					0.000	

Class B

F01.021.098	2-R-NS-1174	NS CN-2491-NS005	QAL-14	VT-3	NA		8.000	
	Rigid Support	CN-2563-1.0					0.000	

Class B

CATEGORY F-A, Supports

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Class 2 Piping Supports

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
F01.021.099	2-R-NS-1166	NS CN-2491-NS006 CN-2563-1.0	QAL-14	VT-3	NA		8.000 0.000	
Rigid Support								
Class B								
F01.021.100	2-R-NS-1167	NS CN-2491-NS006 CN-2563-1.0	QAL-14	VT-3	NA		8.000 0.000	
Rigid Support								
Class B								
F01.021.101	2-R-NS-1168	NS CN-2491-NS006 CN-2563-1.0	QAL-14	VT-3	NA		8.000 0.000	
Rigid Support								
Class B								
F01.021.150	2-R-NV-1088	NV CN-2491-NV044 CN-2554-1.5	QAL-14	VT-3	NA		2.000 0.000	
Rigid Support								
Class B								
F01.021.151	2-R-NV-1089	NV CN-2491-NV044 CN-2554-1.5	QAL-14	VT-3	NA		2.000 0.000	
Rigid Support								
Class B								
F01.021.152	2-R-NV-1090	NV CN-2491-NV044 CN-2554-1.5	QAL-14	VT-3	NA		2.000 0.000	
Rigid Support								
Class B								
Total F01.021 Items:		13						
**** Thermal Movement ****								
F01.022.033	2-R-ND-0143	ND CN-2492-ND007 CN-2561-1.0	QAL-14	VT-3	NA		14.000 0.000	
Spring Hgr								
Class B								
F01.022.034	2-R-ND-0149	ND CN-2492-ND007 CN-2561-1.0	QAL-14	VT-3	NA		14.000 0.000	
Spring Hgr								
Class B								
Total F01.022 Items:		2						

CATEGORY F-A, Supports

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Class 3 Piping Supports

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
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****** One-Directional ******

F01.030.201	2-R-TE-0022	TE	CN-2492-TE001 CN-2593-1.2	QAL-14	VT-3	NA		12.000 0.000	To Be Done With D02.020.017
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Class C

F01.030.221	2-R-VN-0067	VN	CN-2493-VN001 CN-2809-5.0	QAL-14	VT-3	NA		30.000 0.000	
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Class C

Total F01.030 Items: 2

****** Multidirectional ******

F01.031.007	2-R-CA-0024	CA	CN-2492-CA025 CN-2592-1.0	QAL-14	VT-3	NA		6.000 0.000	
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Class C

F01.031.008	2-R-CA-0029	CA	CN-2492-CA025 CN-2592-1.0	QAL-14	VT-3	NA		6.000 0.000	
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Class C

F01.031.009	2-R-CA-0031	CA	CN-2492-CA025 CN-2592-1.0	QAL-14	VT-3	NA		6.000 0.000	
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Class C

F01.031.010	2-R-CA-0032	CA	CN-2492-CA025 CN-2592-1.0	QAL-14	VT-3	NA		6.000 0.000	
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Class C

F01.031.201	2-R-TE-0020	TE	CN-2492-TE001 CN-2593-1.2	QAL-14	VT-3	NA		12.000 0.000	
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Class C

Total F01.031 Items: 5

****** Thermal Movement ******

CATEGORY F-A, Supports

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Class 3 Piping Supports

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
F01.032.221	2-R-VN-0047 Spring Hgr	VN CN-2493-VN011 CN-2609-5.0	QAL-14	VT-3	NA	26.000	0.000		To Be Done With D02.040.006
Class C									
F01.032.222	2-R-VN-0052 Spring Hgr	VN CN-2493-VN012 CN-2609-5.0	QAL-14	VT-3	NA	26.000	0.000		To Be Done With D02.040.007
Class C									
F01.032.224	2-R-VN-0006 Spring Hgr	VN CN-2493-VN013 CN-2609-5.0	QAL-14	VT-3	NA	26.000	0.000		To Be Done With D02.040.004
Class C									
F01.032.225	2-R-VN-0011 Spring Hgr	VN CN-2493-VN014 CN-2609-5.0	QAL-14	VT-3	NA	26.000	0.000		To Be Done With D02.040.005
Class C									
Total F01.032 Items:		4							

CATEGORY F-A, Supports

**DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System**

Catawba 2

Inservice Inspection Plan for Interval 2 Outage 3

Class 1,2,3 Supports

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
**** Supports Other Than Piping Supports ****										
F01.040.102	2ELDHX-SUPPORT	NC	CN-2554-1.0	QAL-14	VT-3	NA		0.000		Excess Letdown Heat Exchanger Support
	Rigid Support		CNM 1201.06-37					0.000		
	Class B									
F01.040.104	2VCT-SUPPORT	NV	CN-2554-1.1	QAL-14	VT-3	NA		0.000		Volume Control Tank Support
	Rigid Support		CNM 1201.04-102					0.000		4 Legs
	Class B									
F01.040.107	2LDHX-SUPPORT	NC	CN-2554-1.6	QAL-14	VT-3	NA		0.000		Vertical Letdown Heat Exchanger Support
	Rigid Support		CNM 1201.06-58					0.000		
	Class B									
F01.040.207	2KCHXA-SUPPORT	KC	CN-2573-1.0	QAL-14	VT-3	NA		0.000		Component Cooling Heat Exchanger 2A Support
	Rigid Support		CNM 1201.06-79					0.000		4 Saddle Supports
	Class C									
F01.040.208	2KCPA1-SUPPORT	KC	CN-2573-1.0	QAL-14	VT-3	NA		0.000		Component Cooling Pump 2A1 Support
	Rigid Support		CNM 1201.05-121					0.000		
	Class C									
F01.040.209	2KCSTA-SUPPORT	KC	CN-2573-1.1	QAL-14	VT-3	NA		0.000		Component Cooling Surge
	Rigid Support		CNM 1148.00-86					0.000		Tank 2A Support
	Class C									2 Saddle Supports
F01.040.211	2MDCAPA-SUPPORT	CA	CN-2592-1.0	QAL-14	VT-3	NA		0.000		Motor Driven Aux. FDW Pump 2A Support
	Rigid Support		CNM 1201.05-351					0.000		
	Class C									
Total F01.040 Items:			7							
Total F01 Items:			55							

CATEGORY Augmented

**DUKE ENERGY CORPORATION
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Pipe Rupture Protection

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
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****** Main Steam System ******

G02.001.001	2SM38-01	SM CN-2SM-038 CN-2593-1.0	NDE-600	UT	CS	34.000	1.375	*	* Reference General Requirements Section 8.1.10
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Class B

G02.001.001A	2SM38-01	SM CN-2SM-038 CN-2593-1.0	NDE-25	MT	CS	34.000	1.375		
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Class B

G02.001.002	2SM-4B-A	SM CN-2SM-038 CN-2593-1.0	NDE-600	UT	CS	34.000	1.375	*	Grinnel Piece Mark CW-SM-4B Weld A * Reference General Requirements Section 8.1.10
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Class B

G02.001.002A	2SM-4B-A	SM CN-2SM-038 CN-2593-1.0	NDE-25	MT	CS	34.000	1.375		Grinnel Piece Mark CW-SM-4B Weld A
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Class B

G02.001.003	2SM38-03	SM CN-2SM-038 CN-2593-1.0	NDE-600	UT	CS	34.000	1.375	*	* Reference General Requirements Section 8.1.10
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Class B

G02.001.003A	2SM38-03	SM CN-2SM-038 CN-2593-1.0	NDE-25	MT	CS	34.000	1.375		
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Class B

G02.001.004	2SM-5B-A	SM CN-2SM-038 CN-2593-1.0	NDE-600	UT	CS	34.000	1.375	*	Grinnel Piece Mark CW-SM-5B Weld A * Reference General Requirements Section 8.1.10
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Class B

G02.001.004A	2SM-5B-A	SM CN-2SM-038 CN-2593-1.0	NDE-25	MT	CS	34.000	1.375		Grinnel Piece Mark CW-SM-5B Weld A
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Class B

CATEGORY Augmented

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
G02.001.005	2SM38-05	SM CN-2SM-038 CN-2593-1.0	NDE-600	UT	CS	34.000	1.750	*	* Reference General Requirements Section 8.1.10
Class B									
G02.001.005A	2SM38-05	SM CN-2SM-038 CN-2593-1.0	NDE-25	MT	CS	34.000	1.750		
Class B									
G02.001.006	2SM38-14	SM CN-2SM-038 CN-2593-1.0	NDE-600	UT	CS	34.000	1.750	*	* Reference General Requirements Section 8.1.10
Class B									
G02.001.006A	2SM38-14	SM CN-2SM-038 CN-2593-1.0	NDE-25	MT	CS	34.000	1.750		
Class B									
G02.001.007	2SM-7B-A	SM CN-2SM-038 CN-2593-1.0	NDE-600	UT	CS	34.000	1.750	*	Grinnell Piece Mark CW-SM-7B Weld A * Reference General Requirements Section 8.1.10
Class B									
G02.001.007A	2SM-7B-A	SM CN-2SM-038 CN-2593-1.0	NDE-25	MT	CS	34.000	1.750		Grinnell Piece Mark CW-SM-7B Weld A
Class B									
G02.001.008	2SM38-15	SM CN-2SM-038 CN-2593-1.0	NDE-600	UT	CS	34.000	2.375	*	* Reference General Requirements Section 8.1.10
Class B									
G02.001.008A	2SM38-15	SM CN-2SM-038 CN-2593-1.0	NDE-25	MT	CS	34.000	2.375		
Class B									
G02.001.009	2SM-8B-A	SM CN-2SM-040 CN-2593-1.0	NDE-600	UT	CS	34.000	2.375	*	Grinnell Piece Mark CW-SM-8B Weld A * Reference General Requirements Section 8.1.10
Class B									

CATEGORY . Augmented

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G02.001.009A	2SM-8B-A	SM	CN-2SM-040 CN-2593-1.0	NDE-25	MT	CS		34.000 2.375		Grinnell Piece Mark CW-SM-8B Weld A
Class B										
G02.001.010	2SM40-01	SM	CN-2SM-040 CN-2593-1.0	NDE-600	UT	CS		34.000 2.375	*	* Reference General Requirements Section 8.1.10
Class B										
G02.001.010A	2SM40-01	SM	CN-2SM-040 CN-2593-1.0	NDE-25	MT	CS		34.000 2.375		
Class B										
G02.001.011	2SM42-01	SM	CN-2SM-042 CN-2593-1.0	NDE-600	UT	CS		34.000 2.375	*	* Reference General Requirements Section 8.1.10
Class B										
G02.001.011A	2SM42-01	SM	CN-2SM-042 CN-2593-1.0	NDE-25	MT	CS		34.000 2.375		
Class B										
Total G02.001 Items:		22								
Total G02 Items:		22								

CATEGORY.

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL	BLOCKS	COMMENTS
G04.001.001	2NI28-1	NI CN-2NI-28	NDE-600	UT	SS	18.000	*		* Reference General Requirements Section 8.1.10. Weld to be examined once per 10 year interval in the same period.
	Circumferential	CN-2562-1.3			20	0.312			
Class B				Pipe to Pipe					
Total G04.001 Items:		1							
Total G04 Items:		1							

5.0 Results Of Inspections Performed

The results of each examination shown in the final Inservice Inspection Plan (Section 4.0 of this report) are included in this section. The completion date and status for each examination are shown. Limited examinations are described in further detail in Section 5.2. All examinations revealing reportable indications are described in further detail in Section 6.0.

5.1 The information shown below is a field description for the reporting format included in this section of the report:

Item Number	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), IWF-2500-1 (Class 1 and Class 2), and Augmented Requirements
ID Number	=	Unique Identification Number
System	=	Plant System Designation
Insp Date	=	Date of Examination
Insp Status	=	CLR Clear REC Recordable REP Reportable
Insp Limited	=	Indicates inspection was limited Coverage obtained is listed
Geo Ref (Geometric Reflector applies only to UT)	=	<u>Y</u> Yes <u>N</u> No
RFR (Request for Relief)	=	<u>Y</u> Yes <u>N</u> No
Comments	=	General and/or Detail Description

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NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
NLET	NC	03/16/2000	CLR	---	N	N	
OUTLET	NC	03/16/2000	CLR	---	N	N	
NLET-SE	NC	03/16/2000	CLR	75.00%	N	Y	Request for Relief Serial No. 00-001
NLET-SE	NC	03/17/2000	CLR	---	N	N	
OUTLET-SE	NC	03/16/2000	CLR	75.00%	N	Y	Request for Relief Serial No. 00-001
OUTLET-SE	NC	03/17/2000	CLR	---	N	N	
-02	NC	03/16/2000	CLR	75.00%	N	Y	Request for Relief Serial No. 00-001
-02	NC	03/21/2000	CLR	---	N	N	
-03	NC	03/16/2000	CLR	75.00%	N	Y	Request for Relief Serial No. 00-001
-03	NC	03/21/2000	CLR	---	N	N	
2B-F	NC	03/19/2000	CLR	---	N	N	
VW-W-X	NC	03/26/2000	CLR	---	N	N	
VW-Z-W	NC	03/26/2000	CLR	---	N	N	
4-MJ1	NV	03/15/2000	CLR	---	N	N	
4-MJ2	NV	03/15/2000	CLR	---	N	N	
3-MJ1	NV	03/15/2000	CLR	---	N	N	
'	NC	03/16/2000	CLR	---	N	N	
V10B	NC	03/28/2000	CLR	---	N	N	
-3	NC	03/16/2000	CLR	---	N	N	
-3	NC	03/15/2000	CLR	---	N	N	
-4	NC	03/16/2000	CLR	---	N	N	
-4	NC	03/15/2000	CLR	---	N	N	
-14	NC	03/15/2000	CLR	---	N	N	
-14	NC	03/15/2000	CLR	---	N	N	
-2	NC	03/15/2000	CLR	---	N	N	
-2	NC	03/15/2000	CLR	---	N	N	
-11	NC	03/17/2000	CLR	---	N	N	
-11	NC	03/17/2000	CLR	---	N	N	
-12	NC	03/17/2000	CLR	---	N	N	
-12	NC	03/17/2000	CLR	---	N	N	
-11	ND	03/18/2000	CLR	---	Y	N	
-11	ND	03/18/2000	CLR	---	N	N	
-8	ND	03/18/2000	CLR	---	N	N	
-8	ND	03/18/2000	CLR	---	N	N	
-9	ND	03/18/2000	CLR	---	Y	N	
-9	ND	03/18/2000	CLR	---	N	N	

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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
B09.011.083	2NI63-3	NI	03/17/2000	CLR	---	Y	N	
B09.011.083A	2NI63-3	NI	03/17/2000	CLR	---	N	N	
B09.011.084	2NI63-5	NI	03/17/2000	CLR	---	N	N	
B09.011.084A	2NI63-5	NI	03/17/2000	CLR	---	N	N	
B09.011.085	2NI70-1	NI	03/15/2000	CLR	---	N	N	
B09.011.085A	2NI70-1	NI	03/15/2000	CLR	---	N	N	
B09.011.086	2NI70-4	NI	03/15/2000	CLR	---	N	N	
B09.011.086A	2NI70-4	NI	03/15/2000	CLR	---	N	N	
B09.011.091	2NI75-6	NI	03/24/2000	CLR	---	N	N	
B09.011.091A	2NI75-6	NI	03/24/2000	CLR	---	N	N	
B09.011.092	2NI75-8	NI	03/24/2000	CLR	---	N	N	
B09.011.092A	2NI75-8	NI	03/24/2000	CLR	---	N	N	
B09.021.029	2NV119-1	NV	03/20/2000	CLR	---	N	N	
B09.021.030	2NV119-2	NV	03/20/2000	CLR	---	N	N	
B09.021.033	2NV209-RCP2A-1	NV	03/18/2000	CLR	---	N	N	
B09.040.044	2NV111-4	NV	03/21/2000	CLR	---	N	N	
B09.040.045	2NV111-6	NV	03/21/2000	CLR	---	N	N	
B09.040.048	2NV209-10	NV	03/18/2000	CLR	---	N	N	
B09.040.049	2NV209-19	NV	03/18/2000	CLR	---	N	N	
B09.040.050	2NV209-2	NV	03/18/2000	CLR	---	N	N	
B09.040.051	2NV209-27	NV	03/18/2000	CLR	---	N	N	
B09.040.052	2NV209-28	NV	03/18/2000	CLR	---	N	N	
B09.040.053	2NV209-3	NV	03/18/2000	CLR	---	N	N	
B09.040.054	2NV209-32	NV	03/18/2000	CLR	---	N	N	
B09.040.055	2NV222-15	NV	03/19/2000	CLR	---	N	N	
B09.040.056	2NV222-17	NV	03/19/2000	CLR	---	N	N	
B09.040.057	2NV222-24	NV	03/19/2000	CLR	---	N	N	
B09.040.058	2NV222-26	NV	03/19/2000	CLR	---	N	N	
B09.040.059	2NV222-8	NV	03/19/2000	CLR	---	N	N	
B09.040.080	2NVRCP2A-1	NV	03/18/2000	CLR	---	N	N	
B12.050.004H	2NI-181	NI	03/21/2000	CLR	---	N	N	
B12.050.006C	2NI-70	NI	03/21/2000	CLR	---	N	N	
B12.050.006D	2NI-71	NI	03/26/2000	CLR	---	N	N	
B13.010.001	2RPV-INTERIOR	NC	03/27/2000	CLR	---	N	N	
C01.020.010	2VCT-LH-SH	NV	03/22/2000	CLR	88.34%	Y	Y	Request for Relief Serial No. 00-001
C01.020.011	2VCT-UH-SH	NV	03/22/2000	CLR	---	Y	N	

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C01.030.008	2BNSHX-3-7	NS	03/10/2000	CLR	---	Y	N	
C03.020.044	2-R-NS-1219	NS	03/30/2000	CLR	---	N	N	
C03.020.064	2-R-SM-1558	SM	03/27/2000	CLR	---	N	N	
C03.020.065	2-R-SM-1559	SM	03/27/2000	CLR	---	N	N	
C03.020.066	2-R-SM-1560	SM	03/27/2000	CLR	---	N	N	
C03.020.067	2-R-SM-1561	SM	03/27/2000	CLR	---	N	N	
C03.020.084	2-R-SM-1550	SM	03/27/2000	CLR	---	N	N	
C03.020.085	2-R-SM-1551	SM	03/27/2000	CLR	---	N	N	
C03.020.086	2-R-SM-1552	SM	03/27/2000	CLR	---	N	N	
C03.020.087	2-R-SM-1553	SM	03/27/2000	CLR	---	N	N	
C03.020.088	2-R-SM-1555	SM	03/27/2000	CLR	---	N	N	
C03.020.089	2-R-SM-1556	SM	03/27/2000	CLR	---	N	N	
C03.020.090	2-R-SM-1557	SM	03/27/2000	CLR	---	N	N	
C03.030.001	2RHRPA-LUGS	ND	03/10/2000	CLR	---	N	N	
C05.011.013	2CA156-30	CA	03/23/2000	CLR	---	N	N	
C05.011.013A	2CA156-30	CA	03/23/2000	CLR	---	N	N	
C05.011.014	2CA156-31	CA	03/23/2000	CLR	---	Y	N	
C05.011.014A	2CA156-31	CA	03/23/2000	CLR	---	N	N	
C05.011.015	2CA156-32	CA	03/23/2000	CLR	---	N	N	
C05.011.015A	2CA156-32	CA	03/23/2000	CLR	---	N	N	
C05.011.051	2ND10-8	ND	03/01/2000	CLR	---	N	N	
C05.011.051A	2ND10-8	ND	03/01/2000	CLR	---	N	N	
C05.011.052	2ND10-9	ND	03/01/2000	CLR	---	N	N	
C05.011.052A	2ND10-9	ND	03/01/2000	CLR	---	N	N	
C05.011.053	2ND15-17	ND	03/02/2000	CLR	---	N	N	
C05.011.053A	2ND15-17	ND	03/01/2000	CLR	---	N	N	
C05.011.054	2ND15-18	ND	03/02/2000	CLR	---	N	N	
C05.011.054A	2ND15-18	ND	03/01/2000	CLR	---	N	N	
C05.011.055	2ND16-2	ND	03/02/2000	CLR	---	N	N	
C05.011.055A	2ND16-2	ND	03/01/2000	CLR	---	N	N	
C05.011.056	2ND16-3	ND	03/02/2000	CLR	---	N	N	
C05.011.056A	2ND16-3	ND	03/01/2000	CLR	---	N	N	
C05.011.057	2ND16-6	ND	03/02/2000	CLR	---	Y	N	
C05.011.057A	2ND16-6	ND	03/01/2000	CLR	---	N	N	
C05.011.058	2ND16-7	ND	03/02/2000	CLR	---	N	N	
C05.011.058A	2ND16-7	ND	03/01/2000	CLR	---	N	N	

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C05.011.059	2ND18-2	ND	03/02/2000	CLR	---	N	N	
C05.011.059A	2ND18-2	ND	03/01/2000	CLR	---	N	N	
C05.011.060	2ND18-8	ND	03/01/2000	CLR	---	N	N	
C05.011.060A	2ND18-8	ND	03/01/2000	CLR	---	N	N	
C05.011.061	2ND18-9	ND	03/01/2000	CLR	---	N	N	
C05.011.061A	2ND18-9	ND	03/01/2000	CLR	---	N	N	
C05.011.062	2ND19-13	ND	03/02/2000	CLR	---	N	N	
C05.011.062A	2ND19-13	ND	03/01/2000	CLR	---	N	N	
C05.011.063	2ND19-9	ND	03/02/2000	CLR	---	N	N	
C05.011.063A	2ND19-9	ND	03/01/2000	CLR	---	N	N	
C05.011.080	2ND32-1	ND	03/24/2000	CLR	---	Y	N	
C05.011.080A	2ND32-1	ND	03/21/2000	CLR	---	N	N	
C05.011.125	2NI85-2	NI	03/24/2000	CLR	---	N	N	
C05.011.125A	2NI85-2	NI	03/21/2000	CLR	---	N	N	
C05.011.126	2NI85-3	NI	03/24/2000	CLR	---	N	N	
C05.011.126A	2NI85-3	NI	03/21/2000	CLR	---	N	N	
C05.011.127	2NI85-5	NI	03/21/2000	CLR	---	N	N	
C05.011.127A	2NI85-5	NI	03/24/2000	CLR	---	N	N	
C05.011.128	2NI85-6	NI	03/21/2000	CLR	---	N	N	
C05.011.128A	2NI85-6	NI	03/21/2000	CLR	---	N	N	
C05.011.129	2NI85-7	NI	03/21/2000	CLR	---	N	N	
C05.011.129A	2NI85-7	NI	03/24/2000	CLR	---	N	N	
C05.011.130	2NI85-8	NI	03/21/2000	CLR	---	N	N	
C05.011.130A	2NI85-8	NI	03/24/2000	CLR	---	N	N	
C05.021.111	2NI200-2	NI	03/07/2000	CLR	---	N	N	
C05.021.111A	2NI200-2	NI	03/07/2000	CLR	---	N	N	
C05.021.112	2NI200-3	NI	03/07/2000	CLR	---	N	N	
C05.021.112A	2NI200-3	NI	03/07/2000	CLR	---	N	N	
C05.021.113	2NI23-4	NI	03/07/2000	CLR	---	N	N	
C05.021.113A	2NI23-4	NI	03/07/2000	CLR	---	N	N	
C05.021.114	2NI23-5	NI	03/07/2000	CLR	---	N	N	
C05.021.114A	2NI23-5	NI	03/07/2000	CLR	---	N	N	
C05.021.115	2NI24-1	NI	03/07/2000	CLR	---	N	N	
C05.021.115A	2NI24-1	NI	03/07/2000	CLR	---	N	N	
C05.021.116	2NI24-10	NI	03/07/2000	CLR	---	N	N	
C05.021.116A	2NI24-10	NI	03/07/2000	CLR	---	N	N	

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C05.021.117	2NI24-11	NI	03/07/2000	CLR	---	N	N	
C05.021.117A	2NI24-11	NI	03/07/2000	CLR	---	N	N	
C05.021.118	2NI24-18	NI	03/07/2000	CLR	---	N	N	
C05.021.118A	2NI24-18	NI	03/07/2000	CLR	---	N	N	
C05.021.119	2NI255-20	NI	03/07/2000	CLR	---	N	N	
C05.021.119A	2NI255-20	NI	03/07/2000	CLR	---	N	N	
C05.021.120	2NI255-5	NI	03/07/2000	CLR	---	N	N	
C05.021.120A	2NI255-5	NI	03/07/2000	CLR	---	N	N	
C05.021.226	2NV181-1	NV	03/03/2000	CLR	---	N	N	
C05.021.226A	2NV181-1	NV	03/03/2000	CLR	---	N	N	
C05.021.227	2NV181-14	NV	03/03/2000	CLR	---	N	N	
C05.021.227A	2NV181-14	NV	03/03/2000	CLR	---	N	N	
C05.021.228	2NV182-1	NV	03/03/2000	CLR	---	N	N	
C05.021.228A	2NV182-1	NV	03/03/2000	CLR	---	N	N	
C05.021.229	2NV182-3	NV	03/03/2000	CLR	---	N	N	
C05.021.229A	2NV182-3	NV	03/03/2000	CLR	---	N	N	
C05.021.260	2NV92-11	NV	03/23/2000	CLR	---	N	N	
C05.021.260A	2NV92-11	NV	03/23/2000	CLR	---	N	N	
C05.030.121	2NV262-15	NV	03/19/2000	CLR	---	N	N	
C05.030.122	2NV262-17	NV	03/21/2000	CLR	---	N	N	
C05.030.123	2NV262-18	NV	03/21/2000	CLR	---	N	N	
C05.030.124	2NV262-21	NV	03/21/2000	CLR	---	N	N	
C05.030.125	2NV262-4	NV	03/21/2000	CLR	---	N	N	
C05.030.126	2NV262-5	NV	03/21/2000	CLR	---	N	N	
C05.051.012	2CA97-10	CA	03/26/2000	CLR	---	N	N	
C05.051.012A	2CA97-10	CA	03/26/2000	CLR	---	N	N	
C05.051.013	2CA97-9	CA	03/26/2000	CLR	---	Y	N	
C05.051.013A	2CA97-9	CA	03/26/2000	CLR	---	N	N	
C05.051.055	2CF65-24	CF	03/19/2000	CLR	---	Y	N	
C05.051.055A	2CF65-24	CF	03/19/2000	CLR	---	N	N	
C05.051.056	2CF65-27	CF	03/19/2000	CLR	---	Y	N	
C05.051.056A	2CF65-27	CF	03/19/2000	CLR	---	N	N	
C06.020.001	2CF-60	CF	03/28/2000	CLR	---	N	N	
D02.020.017	2-R-TE-0022	TE	12/29/1998	CLR	---	N	N	
D02.040.004	2-R-VN-0006	VN	03/20/2000	CLR	---	N	N	
D02.040.005	2-R-VN-0011	VN	03/20/2000	CLR	---	N	N	

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D02.040.006	2-R-VN-0047	VN	01/20/1999	CLR	---	N	N	
D02.040.007	2-R-VN-0052	VN	01/20/1999	CLR	---	N	N	
F01.010.057	2-R-NI-1757	NI	03/14/2000	CLR	---	N	N	
F01.010.058	2-R-NI-1764	NI	03/14/2000	CLR	---	N	N	
F01.010.059	2-R-NI-1765	NI	03/14/2000	CLR	---	N	N	
F01.010.060	2-R-NI-1766	NI	03/14/2000	CLR	---	N	N	
F01.020.004	2-R-CA-1574	CA	03/12/2000	CLR	---	N	N	
F01.020.005	2-R-CA-1577	CA	03/12/2000	CLR	---	N	N	
F01.020.006	2-R-CA-1578	CA	03/12/2000	CLR	---	N	N	
F01.020.034	2-R-ND-0036	ND	03/12/2000	CLR	---	N	N	
F01.020.035	2-R-ND-0037	ND	03/12/2000	CLR	---	N	N	
F01.020.036	2-R-ND-0040	ND	03/12/2000	CLR	---	N	N	
F01.020.037	2-R-ND-0044	ND	03/12/2000	CLR	---	N	N	
F01.020.038	2-R-ND-0045	ND	03/12/2000	CLR	---	N	N	
F01.020.066	2-R-NI-1670	NI	03/14/2000	CLR	---	N	N	
F01.020.067	2-R-NI-1671	NI	03/14/2000	CLR	---	N	N	
F01.020.068	2-R-NI-1673	NI	03/14/2000	CLR	---	N	N	
F01.020.097	2-R-NS-1180	NS	03/15/2000	REC	---	N	N	
F01.020.098	2-R-NS-1181	NS	03/15/2000	CLR	---	N	N	
F01.020.149	2-R-NV-0244	NV	03/12/2000	CLR	---	N	N	
F01.020.150	2-R-NV-0272	NV	03/12/2000	CLR	---	N	N	
F01.020.151	2-R-NV-0247	NV	03/12/2000	CLR	---	N	N	
F01.020.152	2-R-NV-0248	NV	03/12/2000	CLR	---	N	N	
F01.020.153	2-R-NV-0249	NV	03/12/2000	CLR	---	N	N	
F01.021.001	2-R-CA-1571	CA	03/12/2000	CLR	---	N	N	
F01.021.002	2-R-CA-1575	CA	03/12/2000	REC	---	N	N	
F01.021.071	2-R-NI-1672	NI	03/14/2000	CLR	---	N	N	
F01.021.072	2-R-NI-1685	NI	03/14/2000	CLR	---	N	N	
F01.021.096	2-R-NS-1171	NS	03/15/2000	CLR	---	N	N	
F01.021.097	2-R-NS-1172	NS	03/15/2000	CLR	---	N	N	
F01.021.098	2-R-NS-1174	NS	03/15/2000	CLR	---	N	N	
F01.021.099	2-R-NS-1166	NS	03/15/2000	CLR	---	N	N	
F01.021.100	2-R-NS-1167	NS	03/15/2000	REC	---	N	N	
F01.021.101	2-R-NS-1168	NS	03/15/2000	CLR	---	N	N	
F01.021.150	2-R-NV-1088	NV	03/14/2000	CLR	---	N	N	
F01.021.151	2-R-NV-1089	NV	03/14/2000	CLR	---	N	N	

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F01.021.152	2-R-NV-1090	NV	03/14/2000	CLR	---	N	N	
F01.022.033	2-R-ND-0143	ND	03/12/2000	CLR	---	N	N	
F01.022.034	2-R-ND-0149	ND	03/12/2000	CLR	---	N	N	
F01.030.201	2-R-TE-0022	TE	12/29/1998	CLR	---	N	N	
F01.030.221	2-R-VN-0067	VN	01/18/1999	CLR	---	N	N	
F01.031.007	2-R-CA-0024	CA	03/12/2000	CLR	---	N	N	
F01.031.008	2-R-CA-0029	CA	03/12/2000	CLR	---	N	N	
F01.031.009	2-R-CA-0031	CA	03/12/2000	CLR	---	N	N	
F01.031.010	2-R-CA-0032	CA	03/12/2000	CLR	---	N	N	
F01.031.201	2-R-TE-0020	TE	12/29/1998	CLR	---	N	N	
F01.032.221	2-R-VN-0047	VN	01/20/1999	CLR	---	N	N	
F01.032.222	2-R-VN-0052	VN	01/20/1999	CLR	---	N	N	
F01.032.224	2-R-VN-0006	VN	03/12/2000	CLR	---	N	N	
F01.032.225	2-R-VN-0011	VN	03/12/2000	CLR	---	N	N	
F01.040.102	2ELDHX-SUPPORT	NC	03/16/2000	CLR	---	N	N	
F01.040.104	2VCT-SUPPORT	NV	03/27/2000	CLR	---	N	N	
F01.040.107	2LDHX-SUPPORT	NC	03/27/2000	CLR	---	N	N	
F01.040.207	2KCHXA-SUPPORT	KC	03/27/2000	CLR	---	N	N	
F01.040.208	2KCPA1-SUPPORT	KC	04/03/2000	CLR	---	N	N	
F01.040.209	2KCSTA-SUPPORT	KC	03/13/2000	CLR	---	N	N	
F01.040.211	2MDCAPA-SUPPORT	CA	03/15/2000	CLR	---	N	N	
G02.001.001	2SM38-01	SM	03/28/2000	CLR	---	N	N	
G02.001.001A	2SM38-01	SM	03/27/2000	CLR	---	N	N	
G02.001.002	2SM-4B-A	SM	03/28/2000	CLR	---	Y	N	
G02.001.002A	2SM-4B-A	SM	03/27/2000	CLR	---	N	N	
G02.001.003	2SM38-03	SM	03/28/2000	CLR	---	Y	N	
G02.001.003A	2SM38-03	SM	03/27/2000	CLR	---	N	N	
G02.001.004	2SM-5B-A	SM	03/29/2000	CLR	---	Y	N	
G02.001.004A	2SM-5B-A	SM	03/27/2000	CLR	---	N	N	
G02.001.005	2SM38-05	SM	03/29/2000	CLR	---	Y	N	
G02.001.005A	2SM38-05	SM	03/27/2000	CLR	---	N	N	
G02.001.006	2SM38-14	SM	03/29/2000	CLR	---	N	N	
G02.001.006A	2SM38-14	SM	03/27/2000	CLR	---	N	N	
G02.001.007	2SM-7B-A	SM	03/29/2000	CLR	---	Y	N	
G02.001.007A	2SM-7B-A	SM	03/27/2000	CLR	---	N	N	
G02.001.008	2SM38-15	SM	03/29/2000	CLR	---	Y	N	

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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
G02.001.008A	2SM38-15	SM	03/27/2000	CLR	---	N	N	
G02.001.009	2SM-8B-A	SM	03/29/2000	CLR	---	Y	N	
G02.001.009A	2SM-8B-A	SM	03/27/2000	CLR	---	N	N	
G02.001.010	2SM40-01	SM	03/29/2000	CLR	---	N	N	
G02.001.010A	2SM40-01	SM	03/27/2000	CLR	---	N	N	
G02.001.011	2SM42-01	SM	03/29/2000	CLR	---	Y	N	
G02.001.011A	2SM42-01	SM	03/27/2000	CLR	---	N	N	
G04.001.001	2NI28-1	NI	03/07/2000	CLR	---	N	N	

- 5.2 Limited examinations (i.e., 90% or less of the required examination coverage obtained) identified during EOC10 (Outage 3) are shown below. A copy of the Request for Relief is contained in Section 9.0 of this report.

<u>Item Number</u>	<u>Request for Relief Serial Number</u>
B05.070.003	00-001
B05.070.004	00-001
B05.130.006	00-001
B05.130.007	00-001
C01.020.010	00-001

6.0 Reportable Indications

EOC10 (Outage 3) had no reportable indications.

7.0 Personnel, Equipment and Material Certifications

All personnel who performed or evaluated the results of inservice inspections from October 24, 1998 to April 8, 2000 at Catawba Nuclear Station, Unit 2, were certified in accordance with the requirements of the 1989 Edition of ASME Section XI, with no Addenda. The appropriate certification records for each inspector are on file at Catawba Nuclear Station or copies can be obtained by contacting the Duke Energy Corporate Office in Charlotte, North Carolina.

Records of periodic calibration of inspection equipment are on file at Catawba Nuclear Station or copies can be obtained by contacting the Duke Energy Corporate Office in Charlotte, North Carolina.

Records of materials used (i.e., NDE consumables) are on file at Catawba Nuclear Station or copies can be obtained by contacting the Duke Energy Corporate Office in Charlotte, North Carolina.

8.0 Corrective Action

No corrective action was required as a result of examinations performed during EOC10 (Outage 3).

9.0 Reference Documents

The following reference documents apply to the inservice inspections performed during EOC10 (Outage 3) at Catawba Nuclear Station, Unit 2.

- Duke Energy Corporation Catawba Nuclear Station, Unit 2 Docket Number 50-414, Request for Relief Serial Number 00-001 Limited Weld Coverage During End-of-Cycle 10 Refueling Outage
- Duke Power Company Letter; W.R. McCollum to USNRC Document Control Desk, Catawba Nuclear Station, Unit 2 Docket No. 50-414, Request for Relief Serial Number 96-01 Snubber Inspection Intervals for Unit 2, dated February 12, 1996
- NRC Letter; Herbert N. Berkow to Mr. William R. McCollum, Catawba Nuclear Station, Unit 2 – Second 10 Year Inservice Inspection Program, Relief Request Regarding Snubbers (TAC No. M95255 And M97982), dated May 20, 1997



Gary R. Peterson
Vice President

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May 23, 2000

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Subject: Duke Energy Corporation
Catawba Nuclear Station, Unit 2
Docket Number 50-414
Request for Relief Number 00-001
Limited Weld Coverage During End-of-Cycle 10
Refueling Outage

Pursuant to 10 CFR 50.55a(g)(5)(iii), please find attached Request for Relief 00-001. This request for relief is associated with limited weld examinations which were performed during the Unit 2 End-of-Cycle 10 Refueling Outage. The affected welds for which complete coverage could not be achieved are the Steam Generator 2B Inlet and Outlet Nozzle-to-Safe-End and Safe-End-to-Pipe Welds and the Volume Control Tank Lower Head-to-Shell Weld.

The attachment to this letter contains all technical information necessary in support of this request for relief.

If you have any questions concerning this material, please call L.J. Rudy at (803) 831-3084.

Very truly yours,

Gary R. Peterson

LJR/s

Attachment

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xc (with attachment):

L.A. Reyes, Regional Administrator
U.S. Nuclear Regulatory Commission, Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, GA 30303

D.J. Roberts, Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Catawba Nuclear Station

C.P. Patel, Senior Project Manager (addressee only)
U.S. Nuclear Regulatory Commission
Mail Stop O13-H3
Washington, D.C. 20555-0001

Document Control Desk
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bxc (with attachment):

G.D. Gilbert
L.J. Rudy
R.K. Rhyne
K.E. Nicholson
R.N. McGill
RGC File
Document Control File 801.01
ELL-EC050
NCMPA-1
NCEMC
PMPA
SREC

DUKE ENERGY CORPORATION

STATION: CATAWBA NUCLEAR STATION UNIT 2
10-YEAR INTERVAL REQUEST FOR RELIEF NO. 00-001

I. System/Component(s) for Which Relief is Requested:

ASME Section XI Code Class 1 Examination Category: B-F Pressure Retaining Dissimilar Metal Welds and ASME Section XI Code Class 2 Examination Category: C-A Pressure Retaining Welds in Pressure Vessels.

<u>ID Number</u>	<u>Item Number</u>
2SGB-INLET-SE	B05.070.003
2SGB-OUTLET-SE	B05.070.004
2NC11-02	B05.130.006
2NC11-03	B05.130.007
2VCT-LH-SH	C01.020.010

II. Code Requirement:

ASME Section XI 1989 Edition; Examination Category B-F Pressure Retaining Dissimilar Metal Welds, Table IWB-2500-1, Item Numbers B05.070 and B05.130 and Examination Category C-A Pressure Retaining Welds in Pressure Vessels, Table IWC-2500-1, Item Number C01.020 require a volumetric examination of essentially 100% of the weld volume. Duke Energy Corporation, with NRC approval, has adopted Code Case N-460 which defines "essentially 100%" as greater than 90% coverage.

III. Code Requirement from which Relief is Requested:

Relief is requested for the above identified ID Numbers:

- Class 1 Steam Generator 2B Inlet and Outlet Nozzle-to-Safe-End Welds and Safe-End-to-Pipe Welds from meeting the coverage requirements as defined in ASME Section XI, Appendix III, Paragraph III-4420, 1989 Edition with no addenda. "The examination shall be performed using a sufficiently long examination beam path to provide coverage of the required examination volume in two-beam path directions. The examination shall be performed

from two sides of the weld where practical, or from one side of the weld, as a minimum.”

- Class 2 Volume Control Tank Lower Head-to-Shell Weld from meeting the coverage requirements as defined in ASME Section XI, Appendix III, Paragraph III-4420, 1989 Edition with no addenda. “ The examination shall be performed using a sufficiently long examination beam path to provide coverage of the required examination volume in two-beam path directions. The examination shall be performed from two sides of the weld where practical, or from one side of the weld, as a minimum.”

IV. Basis for Relief:

During the ultrasonic examination of the 2SGB Inlet and Outlet Nozzle-to-Safe-End and Safe-End-to-Pipe Welds, 2SGB-INLET-SE, 2SGB-OUTLET-SE, 2NC11-02 and 2NC11-03 (Item Numbers B05.070.003, B05.070.004, B05.130.006 and B05.130.007 respectively) shown in Attachments 2, 3, 4 and 5, greater than 90% coverage of the required examination volume could not be obtained. Material characteristics and single sided access caused by component geometry prevents two-beam path direction coverage of the examination volume and limits the examination coverage to 75%. The most effective ultrasonic technique for the examination of dissimilar metal welds and cast stainless steel welds uses refracted longitudinal waves. The longitudinal wave is preferred as the austenitic weld metal and buttering create highly attenuative barriers to shear wave ultrasound. The longitudinal wave is less affected by these difficulties. However, the longitudinal wave is affected by mode conversion when it strikes the inside surface of the safe end or pipe at any angle other than a right angle to the surface.

The calculations below show that a 45° refracted longitudinal wave striking the inside surface of a pipe will produce a 22.9° refracted shear wave in addition to the normally expected 45° reflected longitudinal wave.

$$\begin{aligned}\sin^{-1} &= (\sin 45^\circ \times V_s) \div V_L \\ &= (0.707 \times 0.123) \div 0.223\end{aligned}$$

Where; \sin^{-1} is the shear wave angle

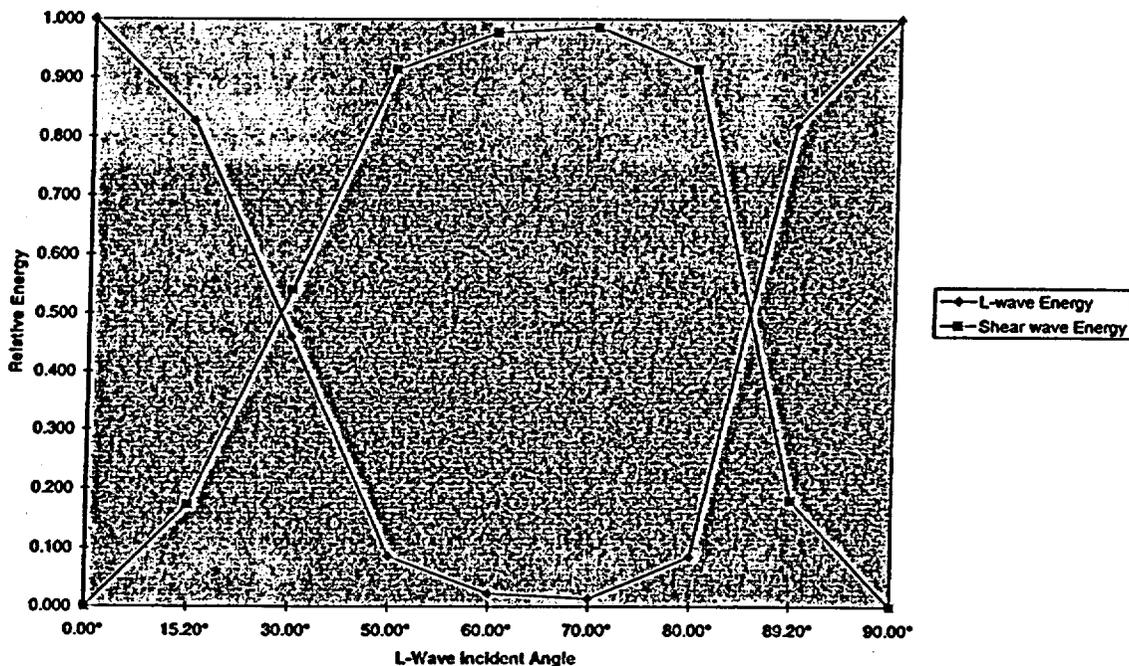
V_s is the shear wave velocity of the stainless steel safe end/pipe material in inches / msec.

V_L is the longitudinal wave velocity of the stainless steel safe/pipe end material in inches/msec.

As shown in the graph below, the mode conversion process creates two sound beams of differing intensities reflecting off the inside surface¹. At incident angles greater than 30 degrees, the shear wave will predominate. However, the shear wave is attenuated and scattered by the austenitic weld metal and the layer of buttering. The examination sensitivity is degraded to such an extent that any examination using the second sound path leg is meaningless. Therefore, the two-beam path direction coverage requirement is impractical.

In order to obtain the required two-beam path direction coverage, welds would have to be re-designed to allow scanning from both sides.

Reflected Sound Beam Energy In Steel on A Free Face



1

¹ Firestone, F.A.: Tricks with the Supersonic Reflectoscope, J. Soc. Nondestructive Testing, vol. 7, no. 2 Fall 1948

During the ultrasonic examination of the Volume Control Tank Lower Head-to-Shell Weld, 2VCT-LH-SH (Item Number C01.020.010) shown in Attachment 6, greater than 90% coverage of the required examination volume could not be obtained. Coverage was therefore limited to 88.34% of the required examination volume. In order to achieve greater than 90% coverage, more access would have to be provided by moving the support legs.

Ultrasonic examination was performed to the extent practical in accordance with ASME Section XI, Appendix III as allowed by Section XI Code Case N-435-1.

V. Alternate Examinations or Testing:

No additional examinations are planned during the current interval for ID Numbers 2SGB-INLET-SE, 2SGB-OUTLET-SE, 2NC11-02, 2NC11-03 and 2VCT-LH-SH. Duke Energy Corporation will continue to use the most current ultrasonic techniques available to obtain maximum coverage for future examinations of these ID Numbers.

VI. Justification for the Granting of Relief:

Steam Generator 2B Inlet and Outlet Nozzle-to-Safe-End and Safe-End-to-Pipe Welds

Although the examination volume requirements as defined in ASME Section XI 1989 Edition with no addenda, Figure IWB-2500-8, Examination Volume C-D-E-F for ID Numbers 2SGB-INLET-SE, 2SGB-OUTLET-SE, 2NC11-02 and 2NC11-03 (Item Numbers B05.070.003, B05.070.004, B05.130.006 and B05.130.007 respectively) could not be met, the amount of coverage obtained for these examinations provides an acceptable level of quality and integrity. For results of the examinations, reference Attachments 2, 3, 4, and 5.

The nozzle to safe-end and safe-end to pipe welds on the Steam Generator Inlet and Outlet Nozzles are located inside containment and are part of the reactor coolant system pressure boundary. General Design Criterion 30, "Quality of Reactor Coolant Pressure Boundary," of Appendix A to 10 CFR Part 50, "General Design Criteria for Nuclear Power Plants," mandates that means be provided for detecting and, to the extent practical, identifying the location of the source of reactor coolant leakage. If a leak were to develop at these weld locations discussed in this relief request, the instrumentation available to the operators for detection and monitoring of leakage would provide a prompt and qualitative information necessary to permit them to take immediate corrective action. If a leak should develop in these aforementioned locations, the only corrective action would be

shutdown and depressurize the reactor coolant system, since the welds are non-isolatable.

Plant Technical Specifications dictate that a reactor coolant system water inventory balance be performed on a regular basis. A normal operating practice is to perform this computer based mass balance on a daily frequency and/or whenever the operators suspect any abnormal changes to other leakage detection systems. Plant Technical Specification requires that if the leak rate cannot be reduced below 1 gpm unidentified that the plant be put in hot standby within 6 hours and in cold shutdown within the following 30 hours. Leakage as a result of a failed weld discussed in this section would show up as unidentified leakage and subject to the 1 gpm limit.

Other leakage detection systems available to the operator and dictated per plant technical specifications are:

- Containment Atmosphere Gaseous and Particulate Radioactivity Monitoring System (EMF monitors 38 & 39) which would detect airborne radiological activity;
- Containment Floor and Equipment Sump Level and Flow Monitoring Subsystem where unidentified accumulated water on the containment floor would be monitored and evaluated as sump level changes;
- Containment Ventilation Unit Condensate Drain Tank Level Monitoring Subsystem which collects and measures as unidentified leakage the moisture removed from the containment atmosphere.

Additionally, other indicators are also available to the operator that a leak exists or may be developing:

- Containment Atmosphere Iodine Monitor (EMF 40)
- Charging / Letdown system mismatches;
- Containment humidity indications;
- Pre-Cycle walkdowns performed each outage while system is at operating temperature and pressure prior to criticality;

- Post-Cycle walkdowns performed at operating temperature and pressure performed during unit shutdown.

Volume Control Tank Lower Head-to-Shell Weld

Although the examination volume requirements as defined in ASME Section XI, Appendix III, Paragraph III-4420, 1989 Edition with no addenda, for ID Number 2VCT-LH-SH (Item Number C01.020.010) could not be met, the amount of coverage obtained provides an acceptable level of quality and integrity. For results of the examination, reference Attachment 6.

The Volume Control Tank (VCT) is used in power operations. The VCT is located in the Auxiliary Building adjacent to the unit mechanical penetration room on floor elevation 560 feet. During power operations and unit refueling outages, the VCT is accessible for visual inspections.

If a leak were to occur at the weld in question (lower head to shell weld), there are several periodic tests and evaluations that are performed by established procedures that should identify the leakage for prompt OPS/ENG evaluation:

- During power operation, any leakage from the VCT would be identified as a mass loss in reactor coolant system water inventory balance. As described above, a normal operating practice is to perform this computer based mass balance on a daily frequency and/or whenever the operators suspect any abnormal changes to other leakage detection systems. Plant Technical Specification requires that if the leak rate cannot be reduced below 1 gpm unidentified that the plant be put in hot standby within 6 hours and in cold shutdown within the following 30 hours. Leakage as a result of a failed weld discussed in this section would show up as unidentified leakage and subject to the 1 gpm limit.
- If a leak were to occur at the subject weld, the water would spill on floor in VCT room and flow to floor drain and then to Floor Drain Tank. Our Chemistry department periodically monitors the tank level and evaluates unidentified leakage for correction.
- Weekly visual inspections are made by Operations into the VCT Room per PT/1(2)/A/4150/02 (Visual Inspection of Radioactive Components Outside Containment). Any leaks are required to be reported and evaluated per this Periodic Test.
- Quarterly walkdowns by the System Engineer include a check of the VCT and related components.

- Periodically, visual material condition inspections in accordance with NSD 104 are made in the VCT room by the site owner of the Aux. Bldg. Elev. 560 area. Identified leakage would be reported for evaluation.
- At a frequency of each refueling outage, visual leakage inspections of the VCT and charging system are made per PT procedure PT/1(2)/A/4202/06, "Leak Rate Determination for NV System." Any NV components identified with external leakage are documented for evaluation, including the VCT.

VII. Implementation Schedule:

These examinations will continue to be scheduled in accordance with the requirements of ASME Section XI for future Inspection Intervals at Catawba Nuclear Station, Unit 2.

The following individuals contributed to the development of this RFR:

Jim McArdle (NDE Level III) provided Sections 3-5

David Goforth (System Engineer) provided Section 6

Andy Hogge and Jimmy Cherry (Sponsors) compiled the remaining sections

Sponsored By:

A. J. Hogge Jr Date 7/8/2000

Approved By:

L. Kevin Rhyme Date 5/8/00

Attachment 1	Description Table
Attachment 2	UT Examination Data B05.070.003
Attachment 3	UT Examination Data B05.070.004
Attachment 4	UT Examination Data B05.130.006
Attachment 5	UT Examination Data B05.130.007
Attachment 6	UT Examination Data C01.020.010

ASME Class 1 & 2 Inservice Inspection Request For Relief No. 00-001
 For Catawba Unit 2 Based on ASME Section XI - 1989 Code

Item No.	Exam Category /Figure No.	System Or Component	Area To Be Examined	Reason For Request	Licensee Proposed Alternate Examination
B05.070.003	B-F IWB-2500-8 (c)	Steam Generator	Steam Generator 2B Inlet Nozzle-to-Safe-End Weld	Limited scan due to material characteristics and single-sided access. Actual coverage obtained = 75% (See Attachment 2)	None
B05.070.004	B-F IWB-2500-8 (c)	Steam Generator	Steam Generator 2B Outlet Nozzle-to-Safe-End Weld	Limited scan due to material characteristics and single-sided access. Actual coverage obtained = 75% (See Attachment 3)	None
B05.130.006	B-F IWB-2500-8 (c)	Steam Generator	Steam Generator 2B Inlet Nozzle Safe-End to Pipe Weld	Limited scan due to material characteristics and single-sided access. Actual coverage obtained = 75% (See Attachment 4)	None

ASME Class 1 & 2 Inservice Inspection Request For Relief No. 00-001
 For Catawba Unit 2 Based on ASME Section XI - 1989 Code

Item No.	Exam Category /Figure No.	System Or Component	Area To Be Examined	Reason For Request	Licensee Proposed Alternate Examination
B05.130.007	B-F IWB-2500-8 (c)	Steam Generator	Steam Generator 2B Outlet Nozzle Safe- End to Pipe Weld	Limited scan due to material characteristics and single-sided access. Actual coverage obtained = 75% (See Attachment 5)	None
C01.020.010	C-A IWC-2500-1 (a)	Volume Control Tank	Volume Control Tank Lower Head-to- Shell Weld	Limited scan due to proximity of four support legs. Actual coverage obtained = 88.34% (See Attachment 6)	None

DUKE POWER COMPANY						Exam Start: 1010	Form NDE-UT-2A	
ULTRASONIC EXAMINATION DATA SHEET FOR PLANAR REFLECTORS						Exam Finish: 1035	Revision 4	
Station: Catawba	Unit: 2	Component/Weld ID: 2SGB-INLET-SE				Date: 3/16/00		
Weld Length (in.): 97.3	Surface Condition: AS GROUND		Lo: 9.1.1.1		Surface Temperature: <u>91</u> ° <u>F</u>			
Examiner: Marion T. Weaver <i>Marion T. Weaver</i> Level: II	Scans: 45 <input checked="" type="checkbox"/> <u>63*</u> dB 70 <input type="checkbox"/> _____ dB 45T <input checked="" type="checkbox"/> <u>63.5**</u> dB 70T <input type="checkbox"/> _____ dB 60 <input type="checkbox"/> _____ dB 60T <input type="checkbox"/> _____ dB Other: _____ dB		Pyrometer S/N: <u>MCNDE 27205</u>		Cal Due: <u>7/26/00</u>			
Examiner: James L. Panel <i>James L. Panel</i> Level: II			Configuration: <u>Nozzle to Safe End</u>		<u>S2</u> Flow <u>S1</u>		<u>SAFE END</u> to <u>NOZZLE</u>	
Procedure: NDE-610 Rev: 4 FC: *			Scan Surface: <u>OD</u>		Applies to NDE-680 only		Skew Angle: <u>N/A</u>	
Calibration Sheet No: 0002037, 0002038								

IND #	<input checked="" type="checkbox"/>	Max % Ref	Mp Max	W Max	L Max	L1	L2	W1	Mp1	W2	Mp2	Beam Dir.	Exam Surf.	Scan	Damps	
		DO NOT WRITE IN THIS SPACE				20%dac HMA		DO NOT WRITE IN THIS SPACE								
						50%dac	50%dac	50%dac	50%dac	50%dac	50%dac					
						100%dac	100%dac	100%dac	100%dac	100%dac	100%dac					
NRI	45°															

Remarks: FC 97-01,98-20 * Scanned at Ref. +10 dB due to signal to noise ratio. ** Scanned at ref. +1 dB due to signal to noise ratio.			
Limitations: (see NDE-UT-4) <input type="checkbox"/> 90% or greater coverage obtained: yes <input checked="" type="checkbox"/> no <input checked="" type="checkbox"/>			
Reviewed By: <i>Amy A. Babb</i>	Level: <i>TII</i>	Date: <i>3-18-00</i>	Authorized Inspector: <i>Robert M. Hill</i> Date: <i>3-28-00</i>
		Sheet <u>1</u> of <u>4</u>	Item No: <i>B05.070.003</i>

REQUEST FOR RELIEF #00-001 ATTACHMENT 2

AC 4/18/00

**DUKE POWER COMPANY
ISI LIMITATION REPORT**

FORM NDE-UT-4

Revision 1

Component/Weld ID: 2SGB-INLET-SE

Item No: B05.070.003

Remarks:

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L N/A to L N/A INCHES FROM WO 1.5" to BEYOND
 ANGLE: 0 45 60 Other _____ FROM 0 DEG to 360 DEG

DUE TO NOZZLE CONFIGURATION

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

Prepared By: Larry M. Muddie Level: III Date: 3-16-00 Sketch(s) attached yes no Sheet 2 of 4
 Reviewed By: Larry S. Bobb Date: 3-18-00 Authorized Inspector: Robert Muddie Date: 3-28-00

[Handwritten signature]
2/18/00

DUKE POWER COMPANY
Limited Examination Coverage Worksheet

NDE-91-1

Revision 0

Examination Volume/Area Defined

Base Metal Weld Near Surface Bolting Inner Radius

Area Calculation

.83" X 2.0" = 1.66 sq. in.

Volume Calculation

1.66 sq. in. X 116" = 192.56 cu. in.

Coverage Calculations

Scan #	Angle	Beam Direction	Area Examined (sq.in.)	Length Examined (in.)	Volume Examined (cu.in.)	Volume Required (cu.in.)	Percent Coverage
1	45	2	0	116	0	192.56	0.00
2	45	1	1.66	116	192.56	192.56	100.00
3	45	CW	1.66	116	192.56	192.56	100.00
4	45	CCW	1.66	116	192.56	192.56	100.00

(Volume Examined) 577.68 / (Volume Required) 770.24 X 100 = 75% Coverage

Item No: B05.070.003

Prepared By: *Larry Maudlin*

Level: *III*

Date: *3-16-00*

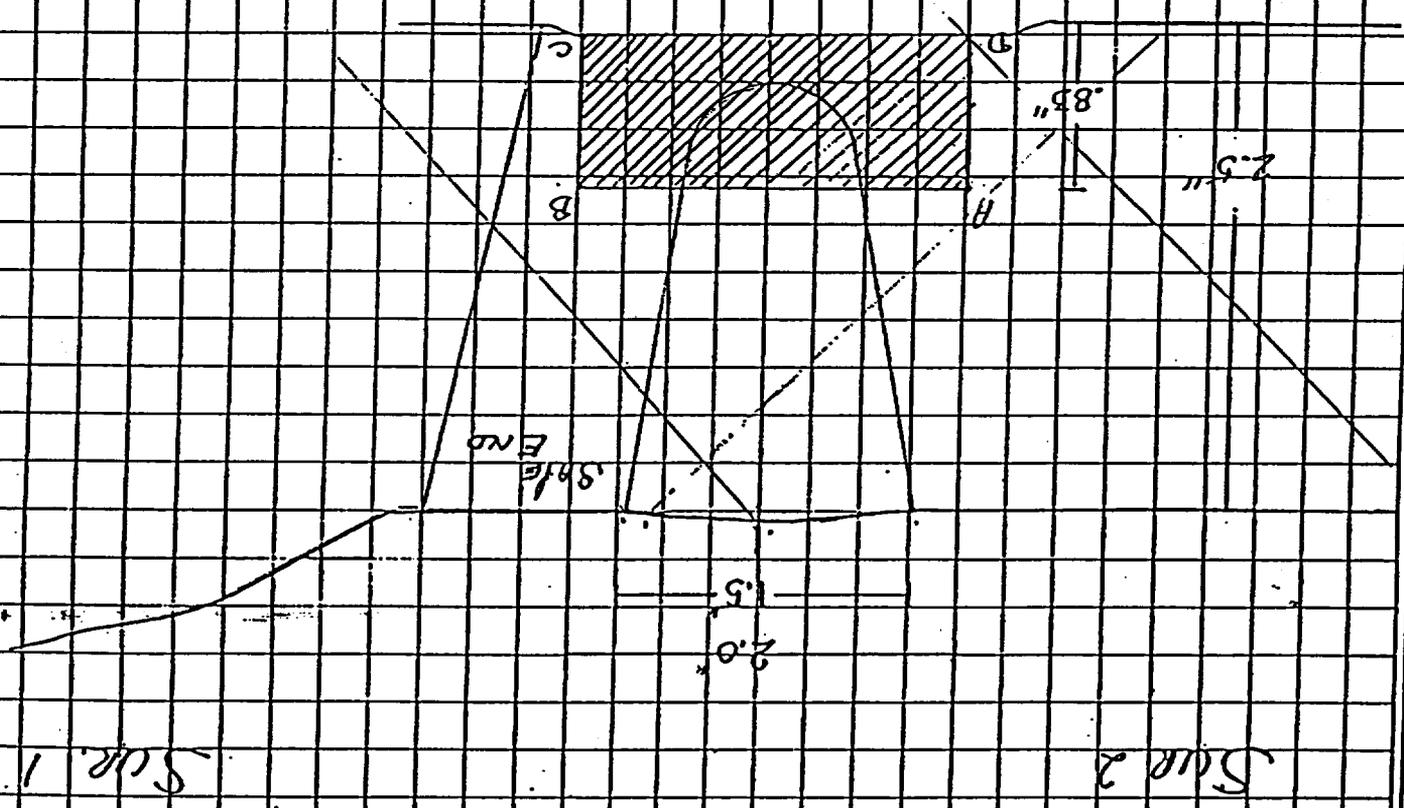
Reviewed By: *Doug S. Bille*

Level: *III*

Date: *3-18-00*

Handwritten initials/signature

Station LOTWBA Unit 2 Rev. _____ File No. _____ Sheet 4 of 4
 Subject LIMITED EXAM
2.5GB-INLET-SE
 By Paul Threlka Date 3-16-00
 Checked By Doug M. Bell Date 3-18-00
 Prob No. 805.070.003



CROSS SECTIONAL AREA

A 45° I-WAVE WAS USED TO INSPECT WELD.
 ONE DIRECTION WAS NOT SCANNED DUE TO TRAP
 ON OPPOSITE SIDE.

EXAM AREA:

$$ARC D = .83" \times 2.0" = 1.6659 \text{ in.}$$

(Handwritten scribbles)

DUKE POWER COMPANY						Exam Start: 1036	Form NDE-UT-2A
ULTRASONIC EXAMINATION DATA SHEET FOR PLANAR REFLECTORS						Exam Finish: 1059	Revision 4
Station: Catawba	Unit: 2	Component/Weld ID: 2SGB-OUTLET-SE				Date: 3/16/00	
Weld Length (in.): 97.3	Surface Condition: AS GROUND		Lo: 9.1.1.1		Surface Temperature: <u>91</u> ° <u>F</u>		
Examiner: Marion T. Weaver <i>Marion T. Weaver</i>	Level: II		Scans:			Pyrometer S/N: <u>MCNDE 27205</u>	
Examiner: James L. Panel <i>James L. Panel</i>	Level: II		45 <input checked="" type="checkbox"/> <u>63*</u> dB 70 <input type="checkbox"/> _____ dB			Cal Due: <u>7/26/00</u>	
Procedure: NDE-610 Rev: 4	FC: *		45T <input checked="" type="checkbox"/> <u>63.5**</u> dB 70T <input type="checkbox"/> _____ dB			Configuration: <u>Nozzle to Safe End</u>	
Calibration Sheet No: 0002037, 0002038			60 <input type="checkbox"/> _____ dB			<u>S2</u> Flow <u>S1</u>	
			60T <input type="checkbox"/> _____ dB			<u>NOZZLE</u> to <u>SAFE END</u>	
			Other: _____ dB			Scan Surface: <u>OD</u>	
						Applies to NDE-680 only	
						Skew Angle: <u>N/A</u>	

IND #	<input checked="" type="checkbox"/>	Max % Ref	Mp Max	W Max	L Max	L1	L2	W1	Mp1	W2	Mp2	Beam Dir.	Exam Surf.	Scan	Damps	
		DO NOT WRITE THIS SPACE				20%dac HMA	DO	DO	DO	DO						
						50%dac	50%dac	50%dac	50%dac	50%dac	50%dac					
						100%dac	100%dac	100%dac	100%dac	100%dac	100%dac					
NRI	45°															

Remarks: FC 97-01, 98-20 * Scanned at Ref. +10 dB due to signal to noise ratio. ** Scanned at ref. +1 dB due to signal to noise ratio.			
Limitations: (see NDE-UT-4) <input type="checkbox"/> 90% or greater coverage obtained: yes <input checked="" type="checkbox"/> no <input checked="" type="checkbox"/>			
Reviewed By: <i>Aug. S. Balle</i>	Level: <i>III</i>	Date: <i>3-18-00</i>	Authorized Inspector: <i>Robert McHill</i>
		Date: <i>3-28-00</i>	Item No: <i>B05.070.004</i>
		Sheet <u>1</u> of <u>4</u>	

REQUEST FOR RELIEF #00-001 ATTACHMENT 3

11/18/00

DUKE POWER COMPANY ISI LIMITATION REPORT

FORM NDE-UT-4

Revision 1

Component/Weld ID: 2SGB-OUTLET-SE

Item No: B05.070.004

Remarks:

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L N/A to L N/A INCHES FROM WO 1.5" to BEYOND
 ANGLE: 0 45 60 Other _____ FROM 0 DEG to 360 DEG

DUE TO NOZZLE CONFIGURATION

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

Prepared By: Larry Mandler Level: III Date: 3-16-00 Sketch(s) attached yes no Sheet 2 of 4

Reviewed By: Larry S. Bill Date: 3-18-00 Authorized Inspector: Robert McNeil Date: 3-28-00

Handwritten signature and date:
4/18/00

DUKE POWER COMPANY
Limited Examination Coverage Worksheet

NDE-91-1

Revision 0

Examination Volume/Area Defined

Base Metal Weld Near Surface Bolting Inner Radius

Area Calculation

.83" X 2.0" = 1.66 sq. in.

Volume Calculation

1.66 sq. in. X 116" = 192.56 cu. in.

Coverage Calculations

Scan #	Angle	Beam Direction	Area Examined (sq.in.)	Length Examined (in.)	Volume Examined (cu.in.)	Volume Required (cu.in.)	Percent Coverage
1	45	2	1.66	116	192.56	192.56	100.00
2	45	1	0	116	0	192.56	0.00
3	45	CW	1.66	116	192.56	192.56	100.00
4	45	CCW	1.66	116	192.56	192.56	100.00

(Volume Examined) 577.68 / (Volume Required) 770.24 X 100 = 75% Coverage

Item No: B05.070.004

Prepared By: *Randy Mauldin*

Level: *III*

Date: *3-16-00*

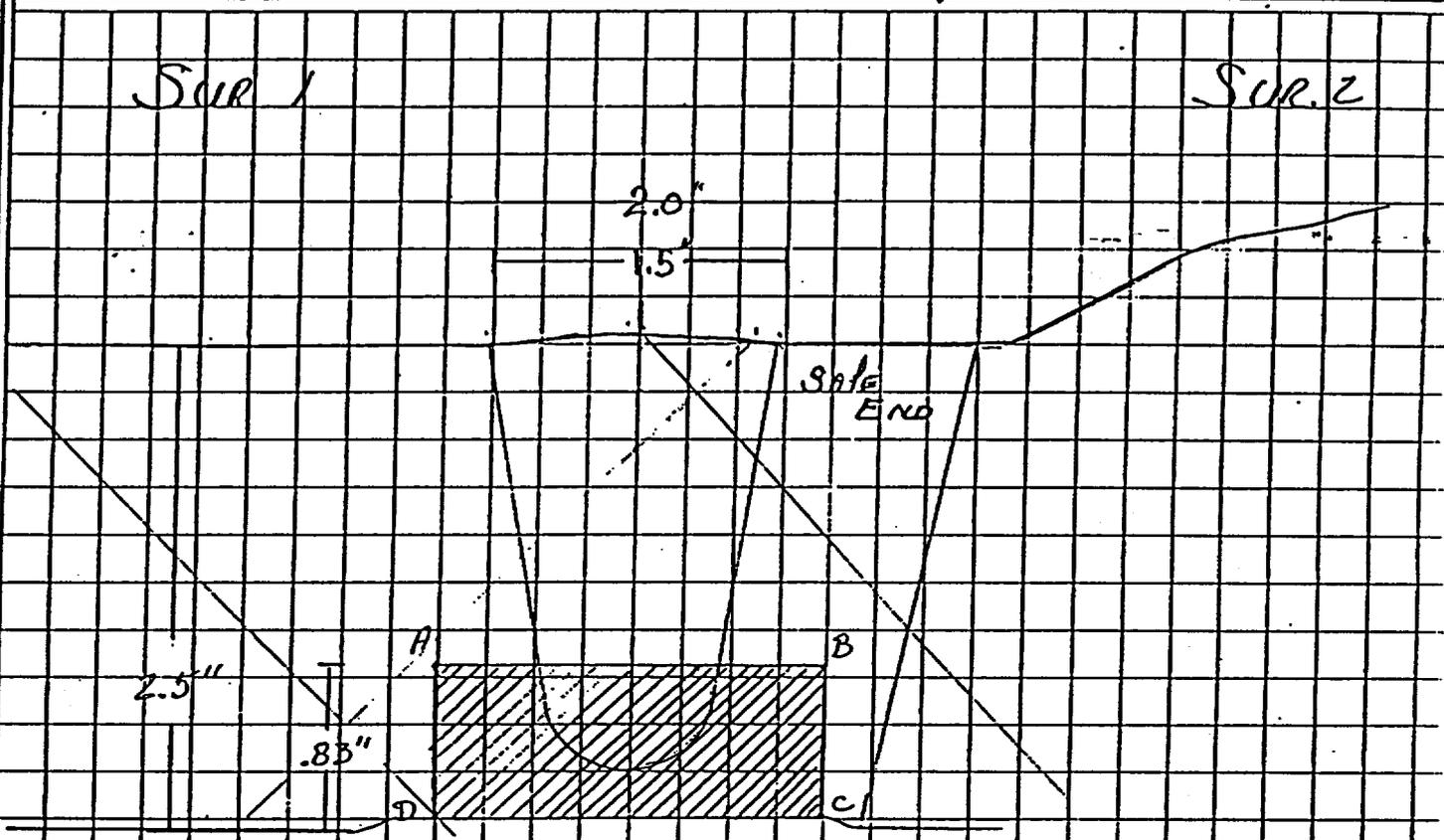
Reviewed By: *Suz. S. Bell*

Level: *III*

Date: *3-18-00*

JTC
4/19/00

Station CATAWBA Unit 2 Rev. _____ File No. _____ Sheet 4 Of 4
 Subject LIMITED EXAM
25GB-OUTLET-SE By Larry Nauha Date 3-16-00
 Prob No. 305.070.004 Checked By Ray S. Bell Date 3-18-00



CROSS SECTIONAL AREA

A 45° L-WAVE WAS USED TO INSPECT WELD.
 ONE DIRECTION WAS NOT SCANNED DUE TO TAPER
 ON GENERATOR SIDE.

EXAM AREA:

$$ABCD = .83" \times 2.0" = 1.66 \text{ sq. in.}$$

[Handwritten signature]
 3/18/00

DUKE POWER COMPANY						Exam Start: 1010	Form NDE-UT-2A
ULTRASONIC EXAMINATION DATA SHEET FOR PLANAR REFLECTORS						Exam Finish: 1035	Revision 4
Station: Catawba	Unit: 2	Component/Weld ID: 2NC11-02				Date: 3/16/00	
Weld Length (in.): 97.3	Surface Condition: AS GROUND		Lo: 9.1.1.1		Surface Temperature: 91 ° F		
Examiner: Marion T. Weaver <i>Marion T. Weaver</i>	Level: II		Scans:				Pyrometer S/N: MCNDE 27205
Examiner: James L. Panel <i>James L. Panel</i>	Level: II		45 <input checked="" type="checkbox"/> 63* dB	70 <input type="checkbox"/> _____ dB	Cal Due: 7/26/00		
Procedure: NDE-610	Rev: 4	FC: *	45T <input checked="" type="checkbox"/> 63.5** dB	70T <input type="checkbox"/> _____ dB	Configuration: Safe End to Pipe		
Calibration Sheet No: 0002037, 0002038			60 <input type="checkbox"/> _____ dB		S2 Flow S1		
			60T <input type="checkbox"/> _____ dB		PIPE to SAFE END		
			Other: _____ dB		Scan Surface: OD		
					Applies to NDE-680 only		
					Skew Angle: N/A		

IND #	<input checked="" type="checkbox"/>	Max % Ref	Mp Max	W Max	L Max	L1	L2	W1	Mp1	W2	Mp2	Beam Dir.	Exam Surf.	Scan	Damps	
		DO NOT WRITE IN THIS SPACE				20%dac HMA		DO NOT WRITE IN THIS SPACE								
						50%dac	50%dac	50%dac	50%dac	50%dac	50%dac					
						100%dac	100%dac	100%dac	100%dac	100%dac	100%dac					
NRI	45°															

Remarks: FC 97-01, 98-20 * Scanned at Ref. +10 dB due to signal to noise ratio. ** Scanned at ref. +1 dB due to signal to noise ratio.			
Limitations: (see NDE-UT-4) <input type="checkbox"/> 90% or greater coverage obtained: yes <input checked="" type="checkbox"/> no <input type="checkbox"/>			
Reviewed By: <i>Aug L. Bell</i>	Level: III	Date: 3-18-00	Authorized Inspector: <i>Robert McNeil</i>
		Date: 3-28-00	Item No: B05.130.006
		Sheet 1 of 4	

REQUEST FOR RELIEF # 00-001 ATTACHMENT 4

JLC 3/18/00

**DUKE POWER COMPANY
ISI LIMITATION REPORT**

FORM NDE-UT-4

Revision 1

Component/Weld ID: 2NC11-02

Item No: B05.130.006

Remarks:

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L N/A to L N/A INCHES FROM WO 1.5" to BEYOND
 ANGLE: 0 45 60 Other _____ FROM 0 DEG to 360 DEG

DUE TO NOZZLE CONFIGURATION

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

Prepared By: Larry McNeill Level: III Date: 3-16-00 Sketch(s) attached yes no Sheet 2 of 4
 Reviewed By: Larry S. Bell Date: 3-18-00 Authorized Inspector: Robert McNeil Date: 3-28-00

Handwritten: 4/18/00

DUKE POWER COMPANY
Limited Examination Coverage Worksheet

NDE-91-1

Revision 0

Examination Volume/Area Defined

Base Metal Weld Near Surface Bolting Inner Radius

Area Calculation

.83" X 2.0" = 1.66 sq. in.

Volume Calculation

1.66 sq. in. X 116" = 192.56 cu. in.

Coverage Calculations

Scan #	Angle	Beam Direction	Area Examined (sq.in.)	Length Examined (in.)	Volume Examined (cu.in.)	Volume Required (cu.in.)	Percent Coverage
1	45	2	0	116	0	192.56	0.00
2	45	1	1.66	116	192.56	192.56	100.00
3	45	CW	1.66	116	192.56	192.56	100.00
4	45	CCW	1.66	116	192.56	192.56	100.00

(Volume Examined) 577.68 / (Volume Required) 770.24 X 100 = 75% Coverage

Item No: B05.130.006

Prepared By:

Randy Mauldi

Level: *III*

Date: *3-16-00*

Reviewed By:

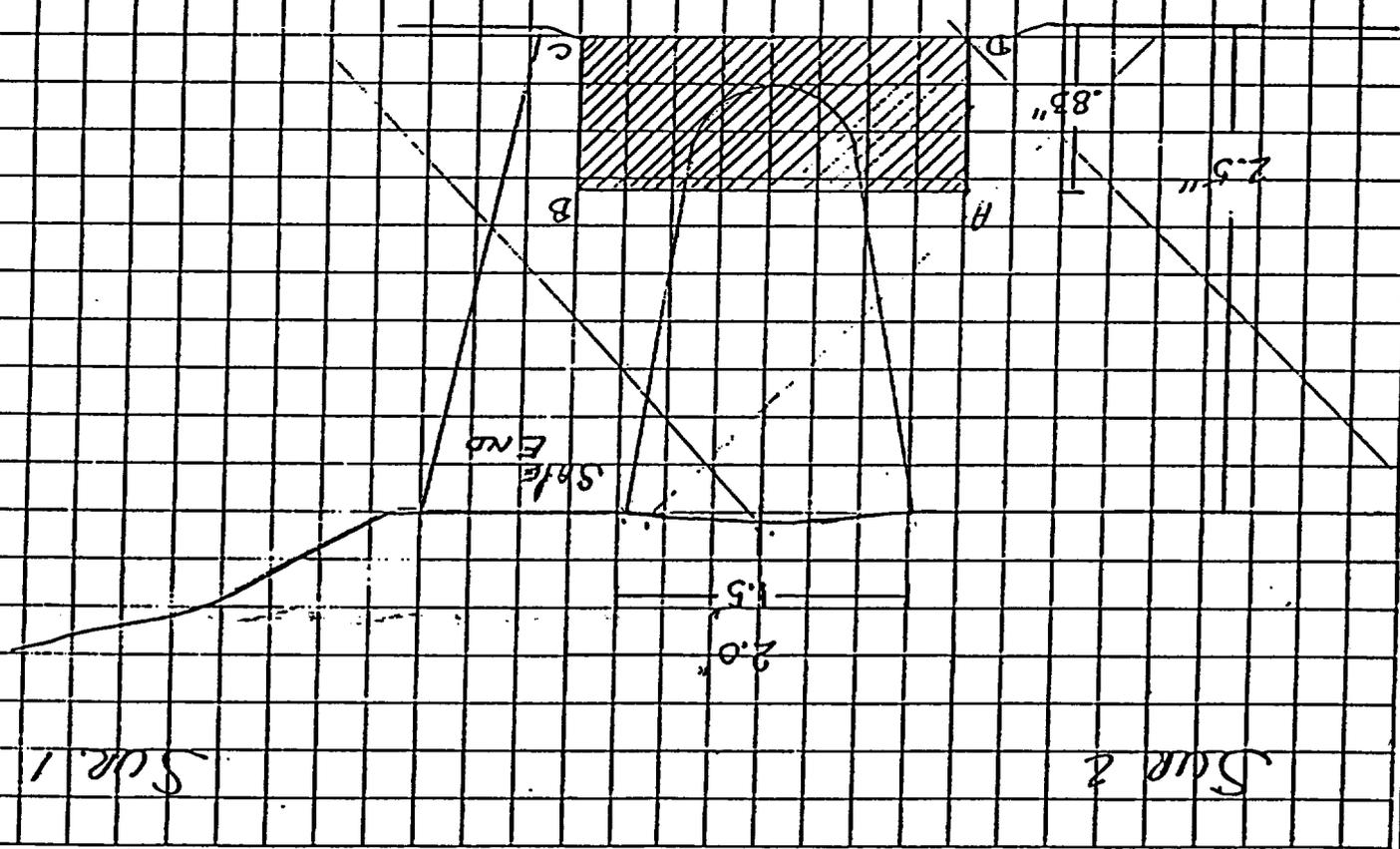
Greg S. Bill

Level: *III*

Date: *3-18-00*

Greg
4/18/00

Station (ATWBA) Unit 2 Rev. _____ File No. _____ Sheet 4 of 4
 Subject LIMITED EXAM
 2 NC11-02
 By Ray Mueller Date 3-16-00
 Prob No. B.05.130.000 Checked By Ray A. Bell Date 3-18-00



CROSS SECTIONAL AREA

A 45° T-WAVE WAS USED TO INSPECT WELD.
 ONE DIRECTION WAS NOT SCANNED DUE TO TRAFFIC
 ON GENERAL SIDE.

EXAM AREA:

$$ARC'D = .83'' \times 2.0'' = 1.6659 \text{ sq. in.}$$

~~4/8/00~~
~~Q~~

DUKE POWER COMPANY										Exam Start: 1036		Form NDE-UT-2A	
ULTRASONIC EXAMINATION DATA SHEET FOR PLANAR REFLECTORS										Exam Finish: 1059		Revision 4	
Station: Catawba			Unit: 2		Component/Weld ID: 2NC11-03					Date: 3/16/00			
Weld Length (in.): 97.3			Surface Condition: AS GROUND			Lo: 9.1.1.1		Surface Temperature: 91 ° F					
Examiner: Marion T. Weaver <i>Marion T. Weaver</i> Level: II			Scans: 45 <input checked="" type="checkbox"/> 63* dB 70 <input type="checkbox"/> _____ dB 45T <input checked="" type="checkbox"/> 63.5** dB 70T <input type="checkbox"/> _____ dB 60 <input type="checkbox"/> _____ dB 60T <input type="checkbox"/> _____ dB Other: _____ dB					Pyrometer S/N: MCNDE 27205					
Examiner: James L. Panel <i>James L. Panel</i> Level: II								Cal Due: 7/26/00					
Procedure: NDE-610 Rev: 4 FC: *								Configuration: Safe End to Pipe S2 Flow S1					
Calibration Sheet No: 0002037, 0002038								SAFE END to PIPE Scan Surface: OD Applies to NDE-680 only Skew Angle: N/A					

IND #	4	Max % Ref	Mp Max	W Max	L Max	L1	L2	W1	Mp1	W2	Mp2	Beam Dir.	Exam Surf.	Scan	Damps	
		DO NOT WRITE THIS SPACE				20%dac HMA		DO	OT	WRITE						
						50%dac	50%dac	50%dac	50%dac	50%dac	50%dac		I	THIS	SPACE	
						100%dac	100%dac	100%dac	100%dac	100%dac	100%dac					
NRI	45°															

Remarks: FC 97-01, 98-20 * Scanned at Ref. +10 dB due to signal to noise ratio. ** Scanned at ref. +1 dB due to signal to noise ratio.									
Limitations: (see NDE-UT-4) <input type="checkbox"/> 90% or greater coverage obtained: yes <input checked="" type="checkbox"/> no <input checked="" type="checkbox"/>									
Reviewed By: <i>Aug L. Bell</i> Level: <i>TII</i> Date: <i>3-18-00</i>					Authorized Inspector: <i>Robert M. Bell</i> Date: <i>3-28-00</i>				
Sheet <u>1</u> of <u>4</u>					Item No: B05.130.007				

REQUEST FOR RELIEF # DD-001 ATTACHMENT 5

12/100

**DUKE POWER COMPANY
ISI LIMITATION REPORT**

FORM NDE-UT-4

Revision 1

Component/Weld ID: 2NC11-03

Item No: B05.130.007

Remarks:

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L N/A to L N/A INCHES FROM WO 1.5" to BEYOND
 ANGLE: 0 45 60 Other _____ FROM 0 DEG to 360 DEG

DUE TO NOZZLE CONFIGURATION

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L _____ to L _____ INCHES FROM WO _____ to _____
 ANGLE: 0 45 60 Other _____ FROM _____ DEG to _____ DEG

Prepared By: Randy Mauldin Level: III Date: 3-16-00 Sketch(s) attached yes no Sheet 2 of 4

Reviewed By: Doug L. Bibb Date: 3-18-00 Authorized Inspector: Robert M. Hill Date: 3-28-00

[Handwritten signature]
3/18/00

DUKE POWER COMPANY Limited Examination Coverage Worksheet	NDE-91-1
	Revision 0

Examination Volume/Area Defined				
<input checked="" type="checkbox"/> Base Metal	<input checked="" type="checkbox"/> Weld	<input type="checkbox"/> Near Surface	<input type="checkbox"/> Bolting	<input type="checkbox"/> Inner Radius

Area Calculation	Volume Calculation
.83" X 2.0" = 1.66 sq. in.	1.66 sq. in. X 116" = 192.56 cu. in.

Coverage Calculations							
Scan #	Angle	Beam Direction	Area Examined (sq.in.)	Length Examined (in.)	Volume Examined (cu.in.)	Volume Required (cu.in.)	Percent Coverage
1	45	2	1.66	116	192.56	192.56	100.00
2	45	1	0	116	0	192.56	0.00
3	45	CW	1.66	116	192.56	192.56	100.00
4	45	CCW	1.66	116	192.56	192.56	100.00

(Volume Examined) 577.68 / (Volume Required) 770.24 X 100 = 75% Coverage

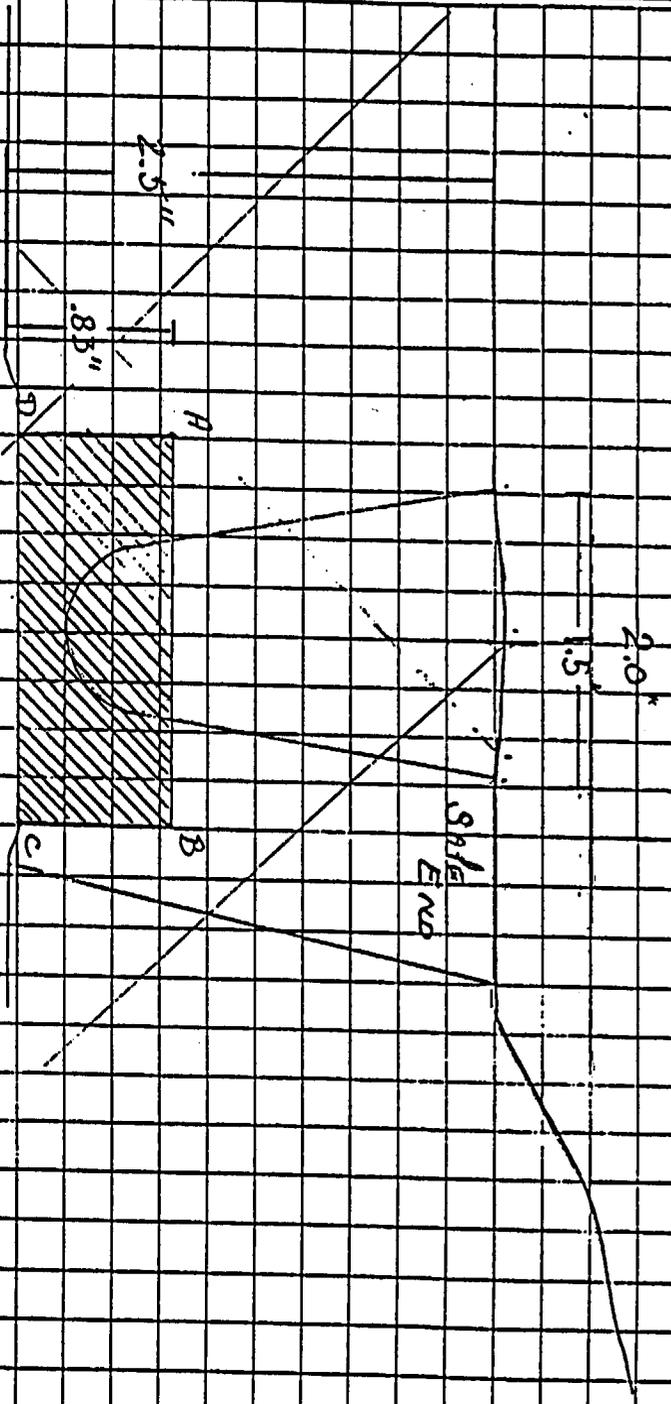
		Item No:	B05.130.007
Prepared By:	<i>Randy Mauldin</i>	Level:	<i>III</i>
		Date:	<i>3-16-00</i>
Reviewed By:	<i>Greg A. Bibb</i>	Level:	<i>III</i>
		Date:	<i>3-18-00</i>

Greg A. Bibb
4/18/00

Station CATOWBA Unit 2 Rev. _____ File No. _____ Sheet 4 of 4
 Subject LIMITED EXAM By Paul Munkie Date 3-16-00
 Prob No. BOS. 130.007 Checked By Steve A. Bill Date 3-18-00

SUR 1

SUR 2



CROSS SECTIONAL AREA

A 45° I-WHOLE WAS USED TO INSPECT WELD.
 ONE DIRECTION WAS NOT SCANNED DUE TO TRAP
 ON REVERSE SIDE.

EXAM AREA:

$$ABCD = .83 \times 2.0 = 1.66 \text{ sq. in.}$$

[Handwritten signature]
 3/18/00

DUKE POWER COMPANY										Exam Start: 1027		NDE-UT-3A	
ULTRASONIC EXAMINATION DATA SHEET FOR LAMINAR REFLECTORS										Exam Finish: 1047		Revision 2	
Station: Catawba			Unit: 2		Component/Weld ID: 2VCT-LH-SH					Date: 3/22/00			
Nominal Material Thickness (in): 0.312				Weld Length (in.): 282.7			Surface Temperature: 82° Deg F						
Measured Material Thickness (in): .241				Lo: 9.2.1			Pyrometer S/N: MCNDE 27205						
Surface Condition: AS GROUND				Calibration Sheet No: 0002053					Cal Due: 7/26/00				
Examiner: Larry Mauldin <i>Larry Mauldin</i> Level: III			Configuration: Head to Shell										
Examiner: James L. Panel <i>James L. Panel</i> Level: II			S2 Flow S1										
Procedure: NDE-640 Rev: 1 FC: *				HEAD to SHELL									
IND NO.	Ampl ≥ rem BW LOB	L1 ≥ rem BW LOB	W1 ≥ rem BW LOB	Mp1 ≥ rem BW LOB	W2 ≥ rem BW LOB	Mp2 ≥ rem BW LOB	L2 ≥ rem BW LOB	W1 ≥ rem BW LOB	Mp1 ≥ rem BW LOB	W2 ≥ rem BW LOB	Mp2 ≥ rem BW LOB	Exam Surf.	Damps
NRI	0°												

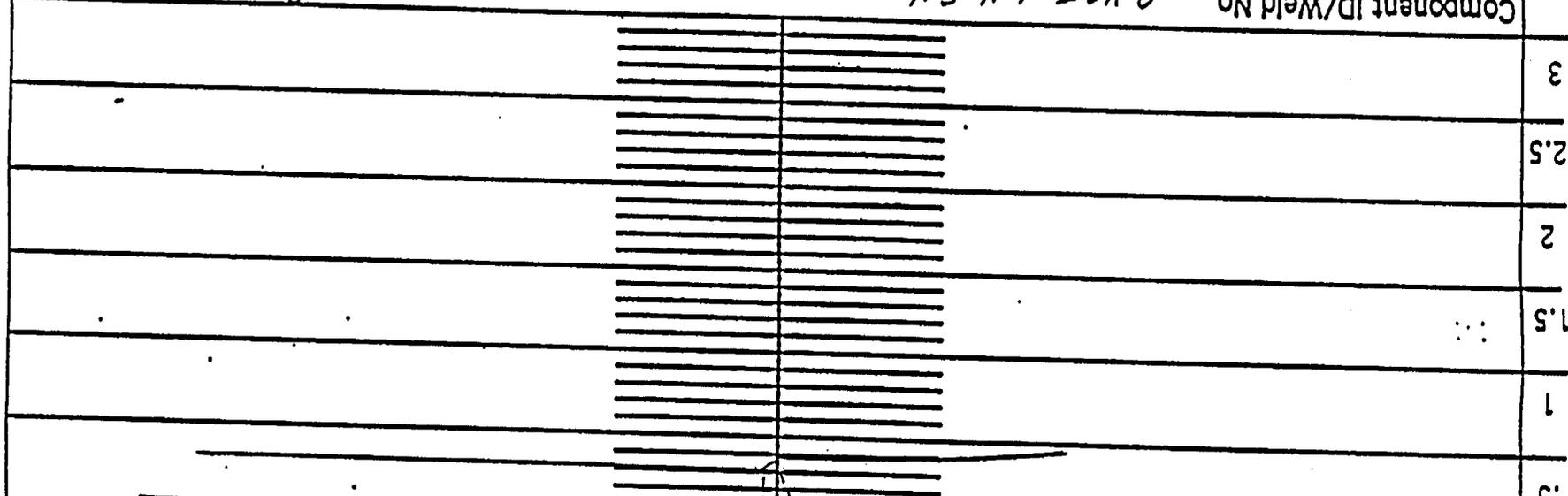
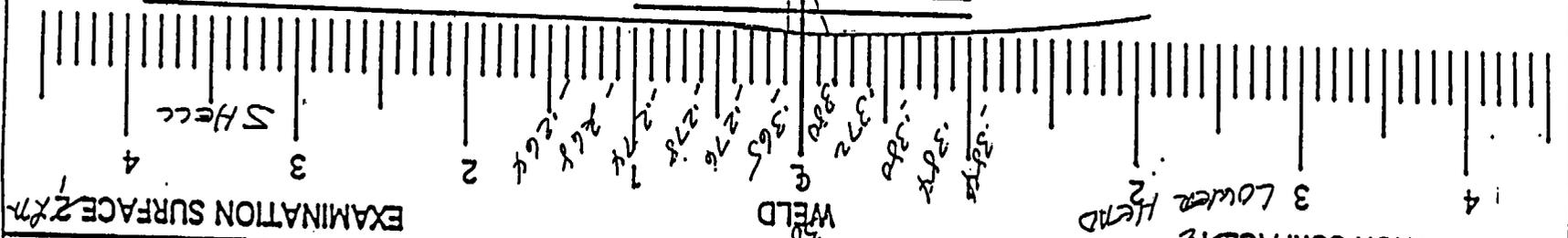
Remarks: *FC 95-18, 95-19														
					Limitations: see NDE-UT-4 <input checked="" type="checkbox"/> None: <input type="checkbox"/>					Sheet <u>1</u> of <u>11</u>				
Reviewed By: <i>Aug. L. Bell</i>			Level: <i>III</i>		Date: <i>3-24-00</i>		Authorized Inspector: <i>Robert M. ...</i>			Date: <i>3-28-00</i>		Item No: C01.020.010		

REQUEST FOR RELIEF #00-001 ATTACHMENT 6

JTC
4/19/00

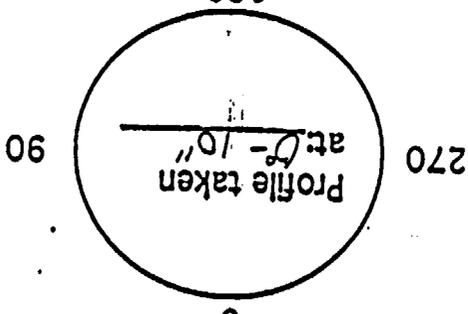
4/19/00
JTB

DUKE POWER COMPANY
 UT PROFILE/PLOT SHEET
 NDE-UT-5
 Revision 1



Component ID/Weld No. **2 YCT-4H-5H**
 Remarks:

Item No: **COL 020.010**
 Examiner: **Tom M. [unclear]**
 Reviewed By: **Tom A. Bill**
 Authorized Inspector: **Ronald [unclear]**
 Level: **III** Date: **3-22-00**
 Level: **III** Date: **3-24-00**
 Date: **3-28-00**



180 Sheets of 11

DUKE POWER COMPANY										Exam Start: 1050		Form NDE-UT-2A											
ULTRASONIC EXAMINATION DATA SHEET FOR PLANAR REFLECTORS										Exam Finish: 1150		Revision 4											
Station: Catawba			Unit: 2		Component/Weld ID: 2VCT-LH-SH					Date: 3/22/00													
Weld Length (in.): 282.7			Surface Condition: AS GROUND			Lo: 9.2.1		Surface Temperature: 82 ° F															
Examiner: Larry Mauldin <i>Larry Mauldin</i> Level: III			Scans: 45 <input checked="" type="checkbox"/> 45 dB 70 <input type="checkbox"/> _____ dB 45T <input checked="" type="checkbox"/> 42 dB 70T <input type="checkbox"/> _____ dB 60 <input type="checkbox"/> _____ dB 60T <input type="checkbox"/> _____ dB Other: _____ dB					Pyrometer S/N: MCNDE 27205															
Examiner: James L. Panel <i>James L. Panel</i> Level: II								Cal Due: 7/26/00															
Procedure: NDE-630 Rev: 2								FC: 99-02					Configuration: Head to Shell S2 Flow S1										
Calibration Sheet No: 0002053, 0002054, 0002055													Lower Head to Shell Scan Surface: OD Applies to NDE-680 only Skew Angle: N/A										
IND #	<input checked="" type="checkbox"/>	Max % Ref	Mp Max	W Max	L Max	L1	L2	W1	Mp1	W2	Mp2	Beam Dir.	Exam Surf.	Scan	Damps								
		DO NOT WRITE IN THIS SPACE				20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac	20%dac HMA 50%dac 100%dac		DO NOT WRITE IN THIS SPACE										
1		45°	70	.383	.1	272"	360°	INT.				1	2	AX	NO								
2		45°	45	1.3	.9	272"	360°	INT.				1	2	AX	NO								
3		45°	25	.384	.45	272"	360°	INT.				2	1	AX	NO								
Remarks:																							
Limitations: (see NDE-UT-4) <input checked="" type="checkbox"/> 90% or greater coverage obtained: yes <input type="checkbox"/> no <input checked="" type="checkbox"/>																							
Reviewed By: <i>Larry G. Bibb</i>												Level: <i>III</i>		Date: <i>3-24-00</i>		Authorized Inspector: <i>Robert M. [Signature]</i>				Date: <i>3-28-00</i>		Sheet <u>3</u> of <u>11</u>	
																Item No: <i>C01.020.010</i>							

OK
3/29/00

DUKE POWER COMPANY
ULTRASONIC EXAMINATION DATA SHEET FOR PLANAR REFLECTORS
 (continuation)

Form NDE-UT-2B

Revision 3

Station: Catawba				Unit: 2	Component/Weld ID: 2VCT-LH-SH								Date: 3/22/00			
IND #	4	Max % Ref	Mp Max	W Max	L Max	L1	L2	W1	Mp1	W2	Mp2	Beam Dir.	Exam Surf.	Scan	Damps	
		DO NOT WRITE IN THIS SPACE					20%dac HMA 50%dac 100%dac		DO NOT WRITE IN THIS SPACE	WRITE SPACE						
4	45°	32	1.15	1.05	272°	360°	INT.					2	1	AX	NO	

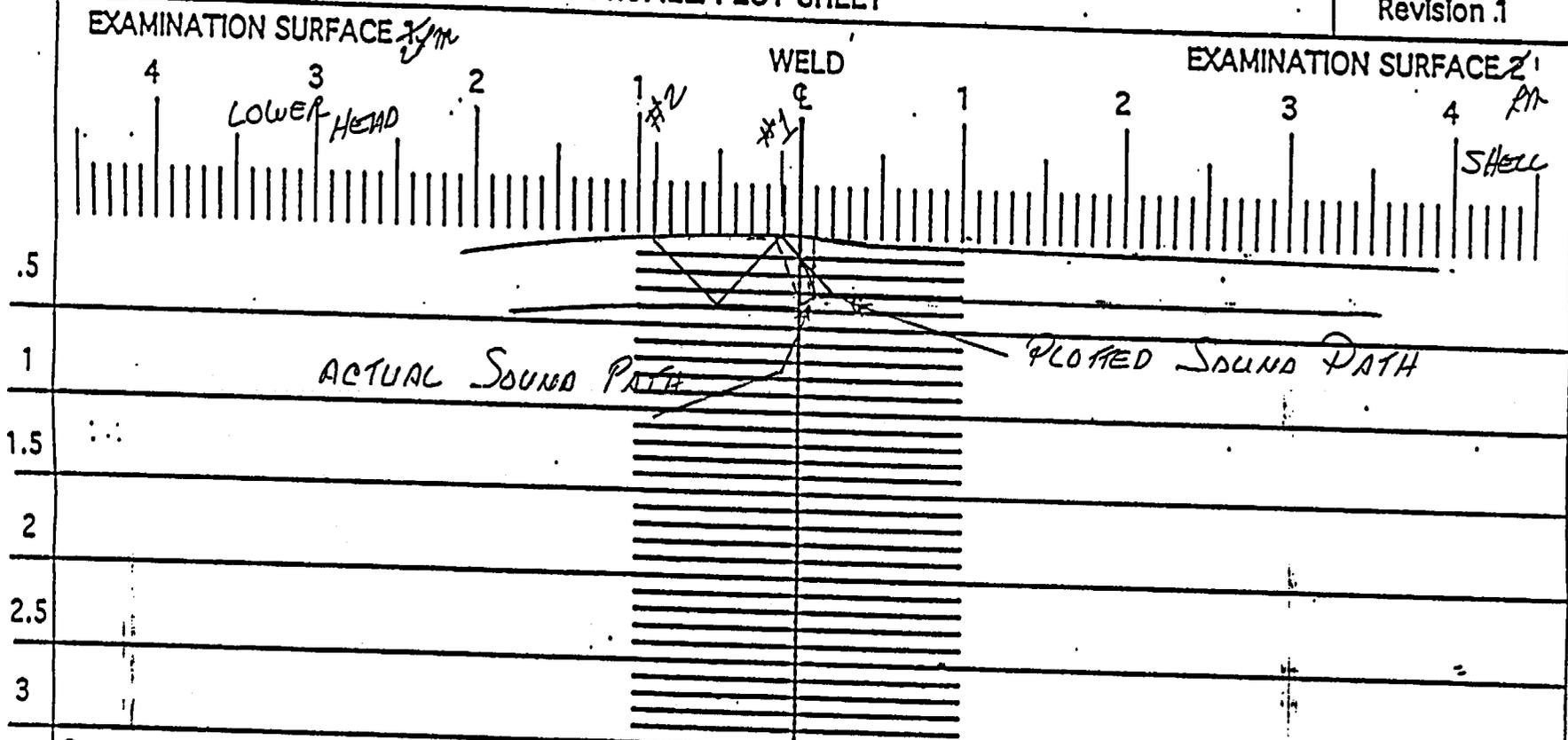
Examiner: Larry Mauldin <i>Larry Mauldin</i>	Level: III	Examiner: James L. Panel <i>James Panel</i>	Level: II
Remarks:			
Reviewed By: <i>Jay S. Bell</i>	Level: III	Date: 3-24-00	Authorized Inspector: <i>Robert Mitchell</i>
		Date: 3-28-00	Date: 3-28-00
		Item No: C01.020.010	Sheet <u>4</u> of <u>11</u>

REC
4/19/00

DUKE POWER COMPANY
UT PROFILE/PLOT SHEET

NDE-UT-5

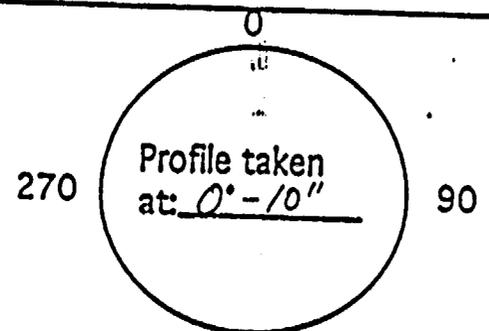
Revision 1



Component ID/Weld No. 2 VCT-LH-5H

Remarks: INDICATIONS 1 & 2 ARE SAME INDICATION

Examiner: <u>Luis Mouldin</u>	Item No: <u>COI 020, 010</u>
Reviewed By: <u>Greg A. Bell</u>	Level: <u>III</u> Date: <u>3-22-00</u>
Authorized Inspector: <u>Robert M. Bell</u>	Level: <u>II</u> Date: <u>3-24-00</u>
	Date: <u>3-28-00</u>



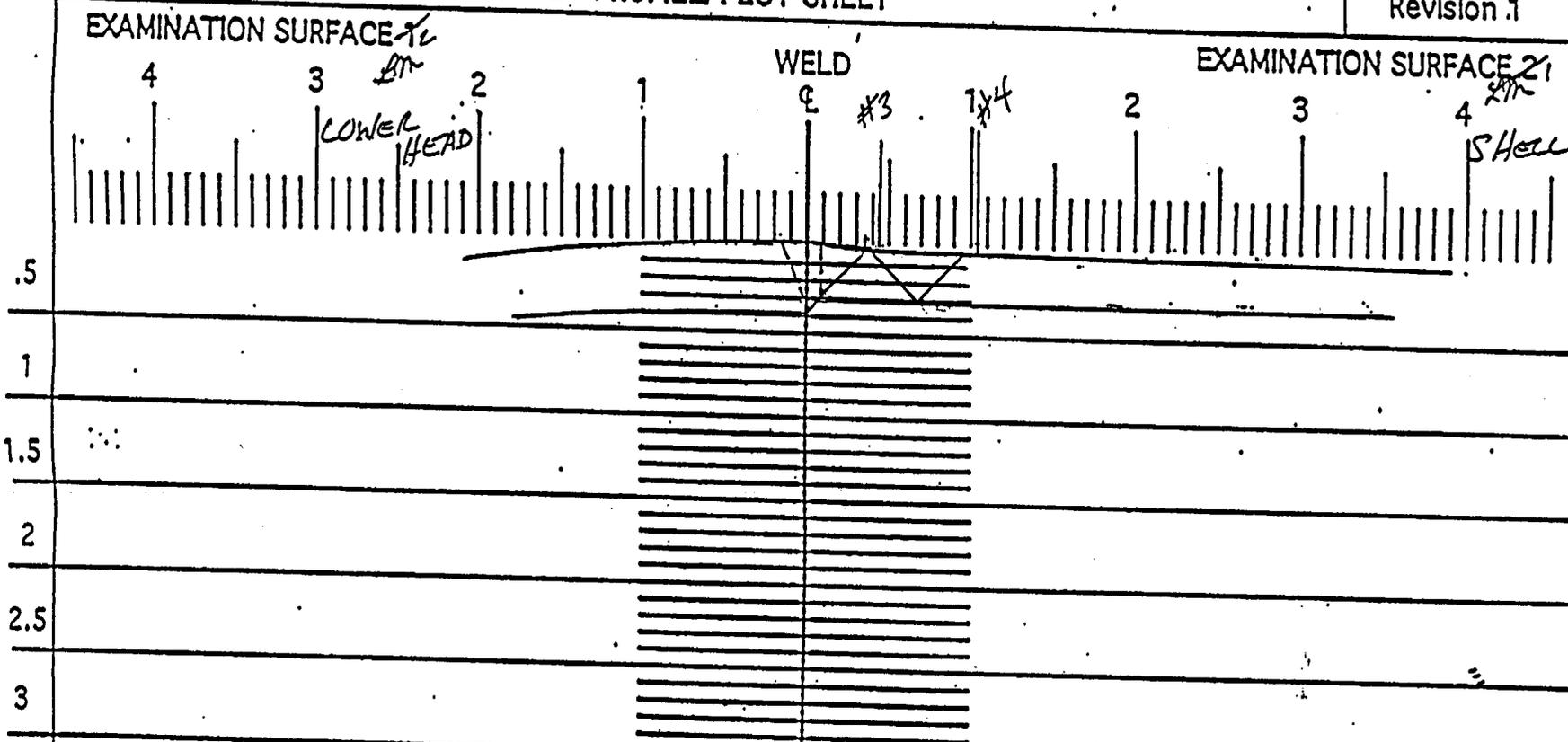
180 Sheet 5 of 11

Handwritten signature and date: 4/19/00

DUKE POWER COMPANY
UT PROFILE/PLOT SHEET

NDE-UT-5

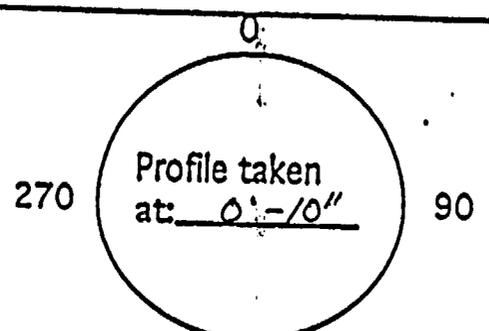
Revision 1



Component ID/Weld No. 2 VCT-LH-SH

Remarks: INDICATIONS 3 & 4 ARE SAME INDICATION

Examiner: <u>Larry Moulton</u>	Item No: <u>COI. 020.010</u>	Level: <u>III</u>	Date: <u>3-22-00</u>
Reviewed By: <u>Steve L. Bell</u>		Level: <u>III</u>	Date: <u>3-24-00</u>
Authorized Inspector: <u>Robert Miller</u>			Date: <u>3-28-00</u>



JTC
4/19/00

DUKE POWER COMPANY
ULTRASONIC INDICATION RESOLUTION SHEET

Form NDE-UT-8

Revision 1

Acceptance Standard:

AFTER PLOTTING INDICATIONS #1 & #2 WERE DETERMINED TO BE THE SAME INDICATION. THIS INDICATION IS A GEOMETRIC REFLECTOR DUE TO THE REDIRECTION OF THE SHEAR WAVE CAUSED BY THE AUSTENITIC WELD MATERIAL BENDING THE SOUND TO THE WELD/BASE MATERIAL INTERFACE. AFTER PLOTTING INDICATIONS #3 & #4 WERE DETERMINED TO BE THE SAME INDICATION. THIS INDICATION IS A GEOMETRIC REFLECTOR DUE TO WELD/BASE INTERFACE. ALL INDICATIONS WERE CONFIRMED BY THE USE OF MULTIPLE ANGLES. 45° & 60° SHEAR SIGNAL WOULD NOT HOLD A SKEW. 60° RL WOULD NOT SHOW AND REFLECTORS NEITHER WOULD THE WSY-70.

Item No: C01.020.010

Acceptable Indications: #1, #2, #3, #4

Rejectable Indications:

These indications have been compared with previous ultrasonic data Yes No previous data available

Examiner:

Larry Mauldin

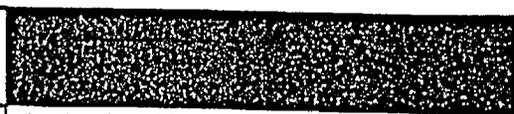
Larry Mauldin

Level:

III

Date:

3/22/00



Sheet 7 of 11

Reviewer:

Smy S. Bill

Level:

III

Date:

3-24-00

Authorized Inspector:

Robert M. Hill

Date:

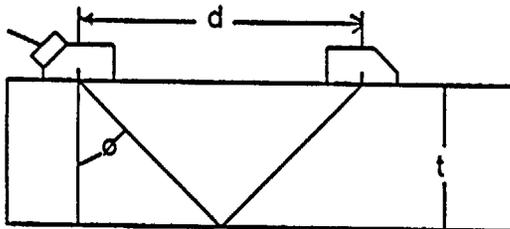
3-28-00

110

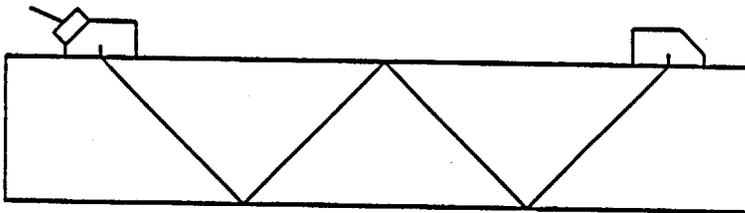
**DUKE POWER COMPANY
ULTRASONIC BEAM ANGLE MEASUREMENT RECORD**

Form NDE-UT-9

Revision 3



$$\tan \phi = \frac{(d/2)}{t}$$



For thin wall pipe use 2nd Vee path

$$\tan \phi = \frac{(d/2)}{2t}$$

1. Take thickness measurements between wedge locations.
2. Place search unit on straight turn of pipe, and peak the signal.
3. Measure distance (d) between exit points.
4. Calculate beam angle with formula as shown using measured wall thickness.
5. Use the measured beam angle to determine coverage and when plotting any indications.

Pipe Size: _____ 90.0" _____

Pipe Schedule: _____ NA (.312) _____

Nominal 45 deg: d= 0.5 ; t= 0.242 ; measured angle= 45.93 deg
 Nominal 60 deg: d= 0 ; t= 0 ; measured angle= 0.00 deg
 Nominal 70 deg: d= 0 ; t= 0 ; measured angle= 0.00 deg

Item No.
C01.020.010

Examiner Larry Mauldin <i>Larry Mauldin</i>	Level III	Date 3/22/00	Examiner James L. Panel <i>James L. Panel</i>	Level II	Date 3/22/00
Reviewed By <i>Larry L. Bibb</i>	Level III	Date 3-24-00	Authorized Inspector <i>Robert M. [unclear]</i>	Date 3-28-00	

**DUKE POWER COMPANY
ISI LIMITATION REPORT**

FORM NDE-UT-4

Revision 1

Component/Weld ID: 2VCT-LH-SH

Item No: C01.020.010

Remarks:

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L 31.21" to L 39.46" INCHES FROM WO N/A to N/A
 ANGLE: 0 45 60 Other _____ FROM 39.75 DEG to 50.25 DEG

SUPPORT LEG 8.25" WIDE

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L 101.90" to L 110.15" INCHES FROM WO N/A to N/A
 ANGLE: 0 45 60 Other _____ FROM 129.75 DEG to 140.25 DEG

SUPPORT LEG 8.25" WIDE

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L 172.59" to L 180.83" INCHES FROM WO N/A to N/A
 ANGLE: 0 45 60 Other _____ FROM 219.75 DEG to 230.25 DEG

SUPPORT LEG 8.25" WIDE

NO SCAN SURFACE BEAM DIRECTION
 LIMITED SCAN 1 2 1 2 cw ccw
 FROM L 243.27" to L 251.52" INCHES FROM WO N/A to N/A
 ANGLE: 0 45 60 Other _____ FROM 309.75 DEG to 320.25

SUPPORT LEG 8.25" WIDE

Prepared By: Larry Mauldin Level: III Date: 3-22-00 Sketch(s) attached yes no Sheet 9 of 11

Reviewed By: Larry L. Bullock Date: 3-24-00 Authorized Inspector: Robert McMillan Date: 3-28-00

Handwritten initials and date: JTC 11/19/00

DUKE POWER COMPANY
Limited Examination Coverage Worksheet

NDE-91-1

Revision 0

Examination Volume/Area Defined

Base Metal Weld Near Surface Bolting Inner Radius

Area Calculation

$1.4 / 2 (.360 + .330) = .483 \text{ SQ. IN.}$

Volume Calculation

$.483 \text{ SQ. IN.} \times 283 \text{ IN.} = 136.69 \text{ CU. IN.}$

Coverage Calculations

Scan #	Angle	Beam Direction	Area Examined (sq.in.)	Length Examined (in.)	Volume Examined (cu.in.)	Volume Required (cu.in.)	Percent Coverage
1	45	1	.483	250	120.75	136.69	88.34
2	45	2	.483	250	120.75	136.69	88.34
3	45	CW	.483	250	120.75	136.69	88.34
4	45	CCW	.483	250	120.75	136.69	88.34
					483	546.76	88.34

Item No: C01.020.010

Prepared By: *Larry Mauldin*

Level: *III*

Date: *3-22-00*

Reviewed By: *Greg S. Bilik*

Level: *III*

Date: *3-24-00*

JAC
4/19/00

Station CATANBA Unit 2 Rev. _____ File No. _____ Sheet 11 Of 11

Subject VOLUME CONTROL TANK LOWER HEAD TO SHELL

I.D. # 2 VCT-LH-SH

By Larry Mueller

Date 3-22-00

Prob No. CO1.020.010

Checked by Jim Bell

Date 3-24-00

INSPECTION AREA

ABCD $\frac{1}{2} (.360 + .330) = .483$ sq. in.



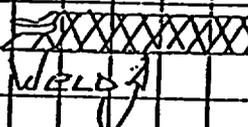
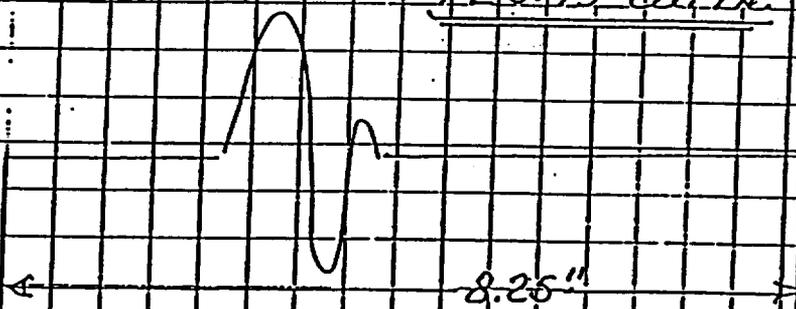
(WELD LENGTH) 2.83 in. \times $.483$ sq. in. (INSPECTION AREA) = $1.36.68$

WELD VOLUME $1.36.69$ cu. in.

AREA NOT SCANNED $8.25" \times 4 = 33$ in.

$2.83" - 33" = 2.50"$ (LENGTH INSPECTED)

AREA INSPECTED: 2.50 in. \times $.483$ sq. in. = $1.20.75$ cu. in.



(4) SUPPORT LEG



SCALE $\frac{1}{2}" = 1.0"$

Handwritten signature and date: 3/24/00

11

Duke Power Company
Catawba Nuclear Generation Department
4500 Concord Road
York, SC 29745

Group 7



DUKE POWER

February 12, 1996

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

**Subject: Catawba Nuclear Station, Unit 2
Docket No. 50-414
Request for Relief Serial Number 96-01
Snubber Inspection Intervals for Unit 2**

Gentlemen:

Pursuant to 10CFR50.55a(g)(5)(iii), Catawba is submitting the attached relief request for NRC review and approval. Per NRC Generic Letter (GL) 90-09, "Alternative Requirements for Snubber Visual Inspection Intervals and Corrective Actions":

"... the staff has developed an alternate schedule for visual inspections that maintains the same confidence level as the existing schedule and generally will allow the licensee to perform visual inspections and corrective actions during plant outages. Because this line item TS improvement will reduce future occupational radiation exposure and is highly cost effective, the alternate inspection schedule is consistent with the Commission's policy statement on TS improvements."

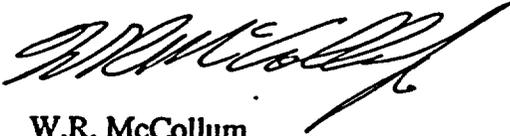
The attached relief request seeks relief from impractical snubber inspection frequencies and will invoke the snubber testing frequency as reflected in the current Catawba Nuclear Station Technical Specification 3/4.7.8, which is the same as that reflected in the referenced GL 90-09.

Catawba is requesting NRC approval of this relief request by August 1, 1996. Approval of this relief request will coincide with the start of Catawba Unit 2, second interval on August 19, 1996. This will allow Catawba to continue to utilize the existing Technical Specification requirements governing snubber inspection.

Document Control Desk
Page 2
February 6, 1996

Should there be any questions regarding this matter, please contact Devereux Tower at
(803) 831-3419.

Very truly yours,



W.R. McCollum

DT/s

Attachment

xc (with attachment):
S.D. Ebnetter, Regional Administrator
Region II

R.J. Freudenberger, Senior Resident Inspector

R.E. Martin, Senior Project Manager
ONRR

Document Control Desk

Page 3

February 5, 1996

bx (with attachment):

Z.L. Taylor

L.J. Rudy

M.D. Shutt

R.C. Giles

NCMPA-1

NCEMC

PMPA

SREC

Document Control File 801.01

Group File 801.01

ELL-EC050

DUKE POWER COMPANY

REQUEST FOR RELIEF FROM INSERVICE INSPECTION REQUIREMENT

Station: Catawba

Unit: 2

Requesting Department: Nuclear Generation Department

Reference Code: ASME Boiler and Pressure Vessel Code, Section XI 1989 Edition

I. Component for which relief is requested:

a. **Name of component:** Snubbers on component supports

b. **Function:**

Snubbers act as dynamic restraints which limit acceleration and/or velocity of the supported components while allowing for movements due to thermal expansion.

c. **ASME Section XI Code Class:** Class 1, 2, and 3

d. **Construction Code and Class:**

ASME Section III, 1974 Edition through Summer 1976 Addenda, Class 1, 2, and 3

e. **Valve Category (If Applicable):** NA

II. Reference Code requirement that has been determined to be impractical:

ASME Section XI, Article IWF-5000, Subsection IWF-5300, Inservice Inspection Requirements For Snubbers - requirement that snubber examinations and tests be performed in accordance with the first Addenda to ASME/ANSI OM-1987, Part 4 (published in 1988).

III. Basis for requesting relief:

ASME Section XI, Subsection IWF-5300 specifies that snubber examinations and tests be performed in accordance with the first Addenda to ASME/ANSI OM-1987, Part 4 (published in 1988). Snubber examinations and tests are currently performed under Technical Specification Section 3/4.7.8 as amended

per NRC Generic Letter 90-09, "Alternative Requirements for Snubber Visual Inspection Intervals and Corrective Actions". The stated purpose of the generic letter was to provide alternative guidance to snubber inspection schedules which were excessively restrictive. The alternate schedule was provided to alleviate the expenditure of unnecessary resources and prevent radiological exposure associated with the over restrictive examination schedule. The implementation of ASME/ANSI OM-1987 would return the snubber examination and testing program to the state which existed prior to the issuance of Generic Letter 90-09, effectively cancelling the benefits intended through the generic letter.

The current inspection program as defined by the Technical Specification provides for a level of quality and safety equal to or greater than that of the proposed OM Standard. The OM Standard provides for Failure Mode Grouping of snubbers which fail visual examination, meaning only those snubbers identified as being in that group would require shortened intervals. Under the existing Technical Specification program all snubbers in the population would be placed in a shortened inspection interval. On this basis the existing program is more conservative in corrective action than the OM Standard requirements.

The functional test plan required by the OM Standard also includes Failure Mode Groups. The use of failure mode grouping is required even for a single failure, and in some cases allows for the failed snubber to be reclassified as acceptable with no further testing. This is unconservative for the large snubber population which exists at Catawba (over 1000 per unit) as compared to the existing Technical Specification program. The current program at Catawba requires supplemental testing for all failures until the desired confidence level is assured, with no allowances to reclassify failed snubbers.

IV. Alternative examination:

In lieu of implementing ASME BPVC, 1989 Edition, Subsection IWF-5300, it is proposed that snubber inspections and testing continue to be performed under the existing program as defined in the Catawba Nuclear Station Technical Specification Section 3/4.7.8.

V. Implementation schedule:

Snubber inspections and testing will continue to be scheduled and performed in accordance with the mandated Technical Specification requirements.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

May 20, 1997

Mr. William R. McCollum
Site Vice President
Catawba Nuclear Station
Duke Power Company
4800 Concord Road
York, South Carolina 29745-9635

SUBJECT: CATAWBA NUCLEAR STATION, UNIT 2 - SECOND 10-YEAR INSERVICE
INSPECTION PROGRAM, RELIEF REQUEST REGARDING SNUBBERS
(TAC NO. M95255 AND M97982)

Dear Mr. McCollum:

By letter dated February 14, 1996, Duke Power Company submitted its second 10-year inservice inspection (ISI) interval program plan and associated requests for relief for Catawba Nuclear Station, Unit 2. On February 27, 1997, we granted a number of the requested reliefs but stated that Request for Relief No. 96-01 regarding snubbers was being addressed under a separate licensing action (TAC M97982).

Based on the information provided, the staff has determined that Duke Power Company has presented an adequate justification for its relief request from the requirements of ASME Code, 1989 Edition, Section XI, Article IWF-5000 (which references OMa-1987, Part 4), with regard to visual examination and functional testing of Code Class 1, 2, and 3 snubbers. The staff has determined that the proposed alternative use of the Technical Specification for the Code Class snubbers would provide an acceptable level of quality and safety and, therefore, the alternative is authorized pursuant to 10 CFR 50.55a(a)(3)(i).

Sincerely,

A handwritten signature in cursive script that reads "Herbert N. Berkow".

Herbert N. Berkow, Director
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-414

Enclosure: Safety Evaluation

cc w/encl: See next page

Catawba Nuclear Station
Unit 2

cc:

Mr. M. S. Kitlan
Regulatory Compliance Manager
Duke Power Company
4800 Concord Road
York, South Carolina 29745

Mr. Paul R. Newton
Legal Department (PB05E)
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242-0001

J. Michael McGarry, III, Esquire
Winston and Strawn
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Washington, DC 20005

North Carolina Municipal Power
Agency Number 1
1427 Meadowood Boulevard
P. O. Box 29513
Raleigh, North Carolina 27626-0513

Mr. Peter R. Harden, IV
Account Sales Manager
Westinghouse Electric Corporation
Power Systems Field Sales
P. O. Box 7288
Charlotte, North Carolina 28241

County Manager of York County
York County Courthouse
York, South Carolina 29745

Richard P. Wilson, Esquire
Assistant Attorney General
South Carolina Attorney General's
Office
P. O. Box 11549
Columbia, South Carolina 29211

Piedmont Municipal Power Agency
121 Village Drive
Greer, South Carolina 29651

Mr. T. Richard Puryear
Owners Group (NCEMC)
Duke Power Company
4800 Concord Road
York, South Carolina 29745

North Carolina Electric Membership
Corporation
P. O. Box 27306
Raleigh, North Carolina 27611

Senior Resident Inspector
4830 Concord Road
York, South Carolina 29745

Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
Atlanta Federal Center
61 Forsyth Street, S.W., Suite 23T85
Atlanta, Georgia 30303

Max Batavia, Chief
Bureau of Radiological Health
South Carolina Department of
Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Mr. G. A. Copp
Licensing - EC050
Duke Power Company
526 South Church Street
Charlotte, North Carolina 28242-0001

Saluda River Electric
P. O. Box 929
Laurens, South Carolina 29360

Ms. Karen E. Long
Assistant Attorney General
North Carolina Department of Justice
P. O. Box 629
Raleigh, North Carolina 27602

Elaine Wathen, Lead REP Planner
Division of Emergency Management
116 West Jones Street
Raleigh, North Carolina 27603-1335

Dayne H. Brown, Director
Division of Radiation Protection
N.C. Department of Environment,
Health and Natural Resources
P. O. Box 27687
Raleigh, North Carolina 27611-7687



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
OF THE SECOND 10-YEAR INTERVAL INSERVICE INSPECTION PROGRAM PLAN
AND ASSOCIATED REQUEST FOR RELIEF REGARDING SNUBBERS

DUKE POWER COMPANY

CATAWBA NUCLEAR STATION, UNIT 2

DOCKET NO. 50-414

1.0 INTRODUCTION

Section 4.0.5 of the Technical Specifications (TS) for Catawba Nuclear Station, Unit 2, state that the inservice inspection of the American Society of Mechanical Engineers (ASME) Code Class 1, 2, and 3 components shall be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code (ASME Code) and applicable addenda as required by Title 10 of the Code of Federal Regulations (10 CFR) Section 50.55a(g), except where specific written relief has been granted by the Commission pursuant to 10 CFR 50.55a(g)(6)(i). Section 50.55a(a)(3) states that alternatives to the requirements of paragraph (g) may be used, when authorized by the NRC, if (i) the proposed alternatives would provide an acceptable level of quality and safety or (ii) compliance with the specified requirements would result in hardship or unusual difficulties without a compensating increase in the level of quality and safety.

Pursuant to 10 CFR 50.55a(g)(4), ASME Code Class 1, 2, and 3 components (including supports) shall meet the requirements, except the design and access provisions and the pre-service examination requirements, set forth in the ASME Code, Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components," to the extent practical within the limitations of design, geometry, and materials of construction of the components. The regulations require that inservice examination of components and system pressure tests conducted during the first 10-year interval and subsequent intervals comply with the requirements in the latest edition and addenda of Section XI of the ASME Code incorporated by reference in 10 CFR 50.55a(b) 12 months prior to the start of the 120-month interval, subject to the limitations and modifications listed therein. The applicable edition of Section XI of the ASME Code for the Catawba Nuclear Station, Unit 2, second 10-year inservice inspection (ISI) interval is the 1989 Edition. The second 10-year interval start date is August 19, 1996.

Pursuant to 10 CFR 50.55a(g)(5), if the licensee determines that conformance with an examination requirement of Section XI of the ASME Code is not practical for its facility, information shall be submitted to the Commission in support of that determination and a request made for relief from the ASME Code requirement. After evaluation of the determination, pursuant to 10 CFR 50.55a(g)(6)(i), the Commission may grant relief and may impose

alternative requirements that are determined to be authorized by law, will not endanger life, property, or the common defense and security, and are otherwise in the public interest, giving due consideration to the burden upon the licensee that could result if the requirements were imposed.

In its letter dated February 14, 1996, Duke Power Company (licensee), submitted to the NRC its second 10-year inservice inspection interval program plan and associated requests for relief for Catawba Nuclear Station, Unit 2. The licensee also provided additional information in its letters dated August 19 and October 23, 1996. On February 27, 1997, the staff granted a number of the requested reliefs but stated that Request for Relief No. 96-01 regarding snubbers was being addressed under a separate licensing action. The following evaluation details the results of the staff's review of Request for Relief No. 96-01.

2.0 EVALUATION

The staff has reviewed the licensee's submittal pertaining to the relief request for snubbers. The licensee requested relief from the requirements of ASME Code Section XI, 1989 Edition, Subsection IWF-5000, with regard to visual examination and functional testing of snubbers. Subsection IWF-5000 references the first addenda to ASME/ANSI OM-1987, Part 4 (OM-4) for such snubber activities. The licensee requested to continue the use of the current Technical Specification (TS) for snubber visual examination and functional testing.

The licensee stated that the current Catawba Unit 2 TS specifies an adequate program for visual examination and functional testing for all safety-related snubbers. The snubber examinations and tests at Catawba Unit 2 are currently performed under TS Section 3/4.7.8, as amended in accordance with NRC Generic Letter 90-09, "Alternative Requirements for Snubber Visual Inspection Intervals and Corrective Actions," dated December 11, 1990. The licensee stated that the current inspection program as defined by the TS provides for a level of quality and safety equal to or greater than that of the OM-4. Furthermore, the TS snubber program scope encompasses all Code Class 1, 2, and 3 snubbers, since the majority of the safety-related snubbers at Catawba Unit 2 are also Code Class.

The licensee further stated that, unlike the OM-4 that requires failure mode grouping (FMG) of snubbers, which fail visual examination, the existing TS requires that once a snubber fails, all snubbers in the population, rather than only those identified in the FMG, be placed in a shortened inspection interval. The TS requirement is, thus, more conservative in regard to corrective action than the OM-4 requirements.

The functional testing plan of the OM-4 also includes the requirement for FMG. In some cases, it even allows for snubbers categorized in the same FMG as the failed snubbers to be reclassified as acceptable without further testing. This may not be conservative, especially for the large snubber population, which exists at Catawba (over 1000 per unit), as compared to the existing TS

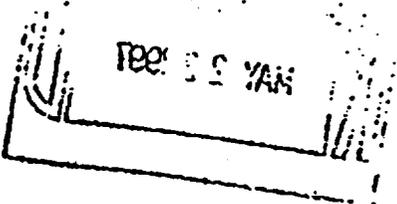
program. The current program at Catawba Unit 2 requires additional testing for all failed snubbers until the desired confidence level is assured, with no allowances to reclassify the unacceptable snubbers, thus, it is more conservative.

3.0 CONCLUSION

Based on the information provided, the staff has determined that the licensee has presented an adequate justification for its relief request from the requirements of ASME Code, 1989 Edition, Section XI, Article IWF-5000 (which references OM-4, with regard to visual examination and functional testing of Code Class 1, 2, and 3 snubbers. The staff has determined that the proposed alternative use of the TS requirement for the Code Class snubbers would provide an acceptable level of quality and safety and, therefore, the alternative can be authorized pursuant to 10 CFR 50.55a(a)(3)(i).

Principal Contributor: Arnold J. Lee

Date: May 20, 1997



10.0 Class 1 and 2 Repairs and Replacements

As required by ASME Section XI 1989 Edition, no Addenda, a record (Form NIS-2) of the Class 1 and Class 2 Repairs and Replacements for work performed from October 24, 1998 to April 8, 2000 is included in this section of the report. The individual work request documents are on file at Catawba Nuclear Station.

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 12/16/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 95078859-01

3b NSM or MN # N/A

4 Identification of System NC REACTOR COOLANT SYSTEM Class A

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Disc	Anchor Darling			For valve 2NC35B		REPAIRED	
B	Disc	Anchor Darling			For valve 2NC35B		REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Seat Leakage for 2NC35B_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. deg.F. Nominal Operating Pressure Other Exempt

9. Remarks This work order was completed on 10/23/95 prior to NIS-2 requirements. No additional information is required.

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul D. Smith
Owner or Owner's Designee, Title

Date 12/16, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-23-95 to 12-16-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Smith
Inspector's Signature

Commissions NC 978

Date 12-16, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 02/16/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 96071859-01

3b NSM or MN # N/A

4 Identification of System SM MAIN STEAM SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bonnet stud & Nut				Stud-SA193 B7, Nut-SA194 2H for valve 2SM-005		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Valve 2SM-005_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. deg.F. Nominal Operating Pressure Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L. Smith
Owner or Owner's Designee, Title

Date 2/16, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-7-98 to 2-6-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McNeil
Inspector's Signature

Commissions NC 978

Date 2-18, 1999

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 07/06/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
Address 526 S. Church St. Charlotte, N.C. 28201-1006
Type Code Symbol Stamp N/A Authorization No. N/A
Expiration Date N/A

3a Work Order # 96071860-01

3b NSM or MN # N/A

4 Identification of System SM MAIN STEAM SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired. Replaced. or Replacement	ASME Code Stamped (yes or no)
A	Bonnet Cover Nuts/Studs	Atwood Morrill			For valve 2SM-003		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Valve 2SM003_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature] Date 7/5, 1999
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 7-98 to 8-3-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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] Commissions NC 978
Inspector's Signature

Date 8-3, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 11/19/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company

3a Work Order # 97038076-12

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

3b NSM or MN # CE-8664

Expiration Date N/A

4 Identification of System KC COMPONENT COOLING SYSTEM Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	BIF	4465-4	93	Valve tag #2KC-41	1976	REPLACED	
B	Valve	Fisher	82814-01A	346	Valve tag #2KC-41	1996	REPLACED	
C	Bolt				1 1/8" Rod-SA193, Nut-SA194 for valve 2KC-41		REPLACED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Valve 2KC-41_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 80 psig Test Temp. 85 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul H. Smith*
Owner or Owner's Designee, Title

Date 11/19, 19 98

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-18-98 to 11-19-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert medill
Inspector's Signature

Commissions NC 978

Date 11-19, 19 98

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

4 Identification of System

NV CNEMICAL & VOLUME CONTROL SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

1a Date 10/26/98

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 97057549-02

3b NSM or MN # N/A

Class B

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired. Replaced. or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2NV	170	Welds 2NV196-57, 55		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R 2NVFE5950_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 2250 psig Test Temp. 288 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul J. Smith
Owner or Owner's Designee, Title

Date 10/26, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 5-18-98 to 10-26-98 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Gil
Inspector's Signature

Commissions NC 978

Date 10-26, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 01/25/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 97064811-01

3b NSM or MN # N/A

4 Identification of System CF MAIN FEEDWATER SYSTEM Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bolting				¾" Rod-SA564, Nut-A193 for valve 2CF051		REPLACED	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Repair Valve 2CF051_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. deg.F. Nominal Operating Pressure Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature] Owner or Owner's Designee, Title

Date 1-25, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 1-17-98 to 1-25-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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 NC 978

Date 1-25, 19-99

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 12/16/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 97072355-01

3b NSM or MN # N/A

4 Identification of System FW REFUELING WATER SYSTEM Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Disc	Crane	N/A		For valve 2FW04		REPLACED	
B	Disc	Crane	CA02197, CA01270		For valve 2FW04		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Seat Leakage for 2FW004_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L. Smith
Owner or Owner's Designee, Title

Date 12/16, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-6-98 to 12-6-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill
Inspector's Signature

Commissions NC 978

Date 12-16, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 11/19/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 97076390-01

3b NSM or MN # N/A

4 Identification of System SM MAIN STEAM SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bolt				7/8"Rod-SA193, Nuts-SA194 for Orifice 2SMFE-5790		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Steam Leak at 2SMFE5790_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. deg.F. Nominal Operating Pressure Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature] Owner or Owner's Designee, Title

Date 11/19, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 6-10-98 to 11-19-98, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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 NC 978

Date 11-19, 19-98

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 11/18/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 97095914-13
 97095914-07 (See Remarks)

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve Body	Fisher	6575227	4008	Valve currently installed for valve tag 2RN-291	1979	REPLACEMENT	
B	Valve Body	Fisher	6578499-502	NA		1986	REPLACED	
C	Base Metal Repair	Fisher	6578499-502	NA		1986	REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Valve 2RN-291_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 75 psig Test Temp. 75 deg.F.

9. Remarks BMP to valve with Serial # 6578499-502 was return to stock.
Functional will not be performed at this time. *P.L. Smith 11/18/98*
(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *P.L. Smith*
Owner or Owner's Designee, Title

Date 11/18/98, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-30-98 to 11-18-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Smith
Inspector's Signature

Commissions NC 978

Date 11-18, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 11/16/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 97097558-01

3b NSM or MN # CN-21384

4 Identification of System CF MAIN FEEDWATER SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Rear Bracket	Grinnell	N/A	N/A	02985021AN REAR BRACKET ASSEMBLY with pivot pin	98	Replaced	Yes
B	Rear Bracket	Grinnell	N/A	N/A	02985023AN rear bracket assembly with pivot pin	98	Replaced	Yes
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work -TRUCK 5/R's Acc CW-21884

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure psig Test Temp. deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature] Date 1/16, 19 98
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-8-98 to 11-16-98 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert [Signature] Commissions NC 978
Inspector's Signature

Date 1-16, 19 98

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 11/16/98

2. Plant CATAWBA NUCLEAR STATION
Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
Address 526 S. Church St. Charlotte, N.C. 28201-1006
Type Code Symbol Stamp N/A Authorization No. N/A
Expiration Date N/A

3a Work Order # 9709755805

3b NSM or MN # CN-21384

4 Identification of System CF MAIN FEEDWATER SYSTEM Class B
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE
6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	1-1/4" hex nuts	Duke	N/A	N/A	Heavy hex nuts 1-1/4" asme sa194 gr 2h ansi b18.2.2	98	Replaced	Yes
B	1-1/4" rod end	Duke	N/A	N/A	1-1/4" rod end 0298ar71an	98	Replaced	Yes
C	Rear bracket	Grinnell	N/A	N/A	Rear bracket 02985021an with pivot pin	98	Replaced	Yes
D	Rear bracket	Grinnell	N/A	N/A	Rear bracket 02985023an with pivot pin	98	Replaced	Yes
E	WELDS	DUKE POWER Co.	NA	NA	WELDS - 2-R-CF-1615-6,7	N/A	REPAIRED Replaced	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work -REWORK S/R'S AS PER CW-21884

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure psig Test Temp. deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature]
Owner or Owner's Designee, Title

Date 2/16, 19 98

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 1-6-98 to 1-16-98 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Liu
Inspector's Signature

Commissions NC 978

Date 1-16, 19 98

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 11/03/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 97095913-13
 97095914-13 (*Pressure Test for BMR Valve*)

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve Body	Fisher	6575224	4005	Valve currently installed for valve tag #2RN-351	1979	REPLACEMENT	
B	Valve Body	Fisher	6575227	4008		1979	REPLACED	
C	Base Metal Repair	Fisher	6575227	4008		1979	REPAIRED	
D	Bolts	Duke Power Co.			Rod- SA193 for valve 2RN351		REPLACEMENT	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace valve 2RN351_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 60 psig Test Temp. 80 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L. Smith
Owner or Owner's Designee, Title

Date 11/3, 19 98

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 8-18-98 to 11-9-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Gill
Inspector's Signature

Commissions NC 978

Date 11-9, 19 98

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 11/03/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 97095914-13
 97095914-07 (See Remark)

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve Body	Fisher	6575227	4008	Valve currently installed for valve tag #2RN-291	1979	REPLACEMENT	
B	Valve Body	Fisher	6575225	4006		1979	REPLACED	
C	Base Metal Repair	Fisher	6575225	4006		1979	REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace valve 2RN-291_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 75 psig Test Temp. 75 deg.F.

9. Remarks BMR to valve with serial # 6575225 was return to stock. Functional will not be performed at this time.

P.L. Smith 11/2/98

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed _____ Date _____, 19____
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 8-18-98 to 11-4-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Liu

Inspector's Signature

Commissions NC 978

Date 11-4, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A *KC COMPONENT*

4 Identification of System REACTOR COOLANT SYSTEM

1a Date 11/09/98

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 97105844-14

3b NSM or MN # N/A

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired. Replaced. or Replacement	ASME Code Stamped (yes or no)
A	Bolts				1/2" Studs & nuts- A325 CS for Hanger 2-R-KC-1884		REPLACEMENT	
B	Bolts				5/8" Studs & nuts- A325 CS for Hanger 2-R-KC-1758		REPLACEMENT	
C	Welds				2-R-KC-1884-3, 2-R-KC-1758- 1,2,2A,3,4, 2-R-KC-1771-1,2		REPLACEMENT	
D					2-R-KC-1896-1,2		REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace NC Pump Motor 2D_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L. Smith
Owner or Owner's Designee, Title

Date 11/9, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-8-98 to 11-11-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McNeil
Inspector's Signature

Commissions NC 978

Date 11-11, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 02/02/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 97111294-09

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	3/4" Rod				SA193 Gr. B7 for hanger supports		REPLACED	
B	3/4" Hex nut				SA194 Gr. B for hanger supports		REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace RN Pump 2B_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Robert M. Hill
Owner or Owner's Designee, Title

Date 2/2, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-20-98 to 2-2-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Hill
Inspector's Signature

Commissions NC 978

Date 2.2, 1999

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY

1a Date 04/05/00

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

2a Unit 1 2 3 Shared (specify Units)

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

3a Work Order # 98001014-01

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

3b NSM or MN # N/A

Expiration Date N/A

4 Identification of System

Class C

RN NUCLEAR SERVICE WATER SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	2" Pipe-SA106 CS Sch 40 90 Ell-SA106		REPLACEMENT	
B	Pipe Welds	Duke Power Co.	C-2RN	160	2RN423-4 2RN423-3 2RN423-2 2RN423-1		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace RN Piping

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 73 psig Test Temp. 57 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Balter J. Smith* TECH SPEC Date 4/5, 2000
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 NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-13-99 to 4-5-00 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Hill
Inspector's Signature

Commissions NC 978

Date 4-5, 2000

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 04/10/00

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98001023-01

3b NSM or MN # NA

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	2" CS Pipe SA106, Elbow SA-105		REPLACEMENT	
B	Pipe Welds	Duke Power Co.	C-2RN	160	2RN424-1,2,3,4		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace RN Piping

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 73 psig Test Temp. 57 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Robert L. Smith* TECH SPEC Date 4/10, 2000
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 NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-28-99 to 4-11-00 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Still
Inspector's Signature

Commissions NC 978

Date 4-11, 2000

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

4 Identification of System

RN NUCLEAR SERVICE WATER SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

1a Date 11/04/98

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98001336-01

3b NSM or MN # N/A

Class C

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	Pipe- SA106 CS, 90 Ell- SA105 CS		REPLACEMENT	
B	Pipe	Duke Power Co.	C-2RN	160	Welds 2RN424-15,16,17,18		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace piping Between Valve and HX

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 70 psig Test Temp. 50 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Robert J. Smith*
Owner or Owner's Designee, Title

Date 11/4, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 1-26-98 to 11-4-98, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert J. Smith
Inspector's Signature

Commissions NC 978

Date 11-4, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 11/04/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98001337-01

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	Pipe- SA106 CS, 90 Ell- SA105 CS		REPLACEMENT	
B	Pipe	Duke Power Co.	C-2RN	160	Welds 2RN423-10,11,12,13		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace piping between valve and HX_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 70 psig Test Temp. 50 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paulton L. Smith*
Owner or Owner's Designee, Title

Date 11/4, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 1-26-98 to 11-4-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill
Inspector's Signature

Commissions NC 978

Date 11-4, 1998

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 12/3/98

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98001833-05

3b NSM or MN # CN-21384

4 Identification of System CF MAIN FEEDWATER SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Mechanical Snubber	Pacific Scientific	01102-05	158	#1 8" Fig. 307 Shock	1997	REPLACED	Yes
B	Mechanical Snubber	Basic-PSA-Inc.	40034	158	#1 4" Fig. 307 Shock	1998	REPLACE D	Yes
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Rework S/R's as per CN-21384

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt X
Pressure psig Test Temp. deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature]
Owner or Owner's Designee, Title

Date 12/3, 19 98

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 4-14-98 to 12-10-98 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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 NC 978

Date 12-10, 19 98

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 12/22/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98006737-01

3b NSM or MN # CE-61292

4 Identification of System CA AUXILIARY FEEDWATER SYSTEM Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	Borg-Warner	62053	2334	Remove internal of valve 2CA171		REPAIRED	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Remove internal of valve 2CA171_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks visual functional at normal operating temp/press

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature]
Owner or Owner's Designee, Title

Date 12/22, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-98 to 12-2298, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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 NC 978

Date 12-22, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 12/22/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98006739-01

3b NSM or MN # CE-61292

4 Identification of System CA AUXILIARY FEEDWATER SYSTEM Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	Borg-Warner	11707	328	Remove internal of valve 2CA172		REPAIRED	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Remove internal of valve 2CA172_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. deg.F. Nominal Operating Pressure Other Exempt

9. Remarks Visual functional at operating temp/press.

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul D. Smith
Owner or Owner's Designee, Title

Date 12/22, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-9-98 to 12-22-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill
Inspector's Signature

Commissions NC 978

Date 12-22, 1998

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 03/02/99

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98017606-13

3b NSM or MN # CE-9402

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	BIF	444-72-01	147	Valve tag 2RN51A	1977	REPLACED	
B	Valve	Fisher	3345B-02A	365	Valve tag 2RN51A	1998	REPLACED	
C	Bolts				Studs-SA-193 Gr.B7 Nuts SA-194 Gr.2H		REPLACED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace valve 2RN51A_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 70 psig Test Temp. 76 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul D Smith*
Owner or Owner's Designee, Title

Date 3/2, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-7-98 to 3-4-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert Meyli
Inspector's Signature

Commissions NC 978

Date 3-4, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

1a Date 03/02/99

Sheet 1 of 1

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

2a Unit 1 2 3 Shared (specify Units)

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

3a Work Order # 98017608-11

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

3b NSM or MN # CE-9402

Expiration Date N/A

4 Identification of System

Class C

RN NUCLEAR SERVICE WATER SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	Posi-Seal	40846-3D	186	Valve tag 2RN50B	1987	REPLACED	
B	Valve	Fisher	3658A-01B	354	Valve tag 2RB50B	1997	REPLACEMENT	
C	Bolts				Studs- SA-193 Gr. B7, Nuts- SA194 Gr. 2H		REPLACED <i>Replacement</i>	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace valve 2RN50B_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 70 psig Test Temp. 76 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Robert J. Smith*
Owner or Owner's Designee, Title

Date 3/2, 19 99

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-7-96 to 3-4-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill
Inspector's Signature

Commissions NC 978

Date 3-4-99, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

1a Date 01/19/99

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98018227-02

3b NSM or MN # N/A

4 Identification of System KC COMPONENT COOLING SYSTEM Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	BIF	44462-24	129	Valve tag #2KC10	1977	REPLACED	
B	Valve	Fisher	3922A-01A	355	Valve tag #2KC10	1997	REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Valve 2KC10_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 80 psig Test Temp. 85 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul H. J. Satt*
Owner or Owner's Designee, Title

Date 1-19, 19 99

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-23-98 to 1-26-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Giv
Inspector's Signature

Commissions NC 978

Date 1-26, 19 99

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

1a Date 01/19/99

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98018264-02

3b NSM or MN # CE-9401

4 Identification of System KC COMPONENT COOLING SYSTEM Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	BIF	N71697-3	475	Valve tag #2KC12	1980	REPLACED	
B	Valve	Fisher	3345B-01B	362	Valve tag #2KC12	1998	REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Valve 2KC12_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 80 psig Test Temp. 85 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul D. Smith*
Owner or Owner's Designee, Title

Date 1-19, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-23-98 to 1-25-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Smith
Inspector's Signature

Commissions NC 978

Date 1-25, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 12/08/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98024121-07

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	2" Pipe-CS SA106 Sch. 40		REPLACEMENT	
B	Pipe	Duke Power Co.	C-2RN	160	Pipe Welds-2RN309-1,2,3,4		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace RN piping

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 70 psig Test Temp. 82 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Patricia J. Smith
Owner or Owner's Designee, Title

Date 12/8, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 7-14-98 to 12-9-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Liu
Inspector's Signature

Commissions NC 978

Date 12-9, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 11/23/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98024126-07

3b NSM or MN # N/A

4 Identification of System

Class C

RN NUCLEAR SERVICE WATER SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired. Replaced. or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	2" Pipe-SA-106, 90 Ell-SA105		REPLACED	
B	Pipe	Duke Power Co.	C-2RN	160	Welds- 2RN306-1,2,3,4		REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Piping Upstream of 2RN853_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 69 psig Test Temp. 74.3 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Robert L. Smith
Owner or Owner's Designee, Title

Date 11/23, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-14-98 to 11-30-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert Smith
Inspector's Signature

Commissions NC 978

Date 11-30, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 11/19/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98024128-02

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	2" 90 Ell-SA105, Pipe-SA106		REPLACEMENT	
B	Pipe	Duke Power Co.	C-2RN	160	Welds- 2RN307-1,2,3,4		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Pipe Upstream Of 2RN145_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 69 psig Test Temp. 74.3 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed _____ Date _____, 19____
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 6-8-98 to 11-19-98 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Hill
Inspector's Signature _____ Commissions NC 978

Date 11-19 , 1998

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 11/12/98

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98024201-01

3b NSM or MN # CE09451

4 Identification of System

Class C

BB STEAM GERATOR BLOWDOWN SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	ITT Grinnell	20-53876-2-86	6603	For valve 2RNC50	1983	REPLACED	
B	Valve	BWL IND. INC.	A970801-1-24	N/A	For valve 2RNC50	11/97	REPLACED	
C	Pipe	Duke Power Co.	C-2RN	160	2" Pipe-SS SA312, 2" H/Cplg.-SA105		REPLACED	
D	Pipe	Duke Power Co.	C-2RN	160	Pipe weld- 2RN9-30		REPLACED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace valve 2RNC50_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 67 psig Test Temp. 75 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L. Smith
Owner or Owner's Designee, Title

Date 11/12, 19 98

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 7-6-98 to 11-16-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill

Inspector's Signature

Commissions NC 978

Date 11-16, 19 98

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANYAddress 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-10062. Plant CATAWBA NUCLEAR STATIONAddress 4800 CONCORD RD. YORK, S.C. 297453. Work Performed By Duke Power CompanyAddress 526 S. Church St. Charlotte, N.C. 28201-1006Type Code Symbol Stamp N/A Authorization No. N/AExpiration Date N/A

4 Identification of System

RN NUCLEAR SERVICE WATER SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

1a Date 12/16/98

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98024200-05

3b NSM or MN # CE-9451

Class C

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	2" Pipe-SA106, Half/Cpl.-SA-105, Pipe weld 2RN10-30		REPLACEMENT	
B	Valve	Kerotest	OAR169-12	27133	Valve 2RN26	1980	REPLACED	
C	Valve	BNL	A970801-20		Valve 2RN26	11-97	REPLACEMENT	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace valve 2RNC26_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 70 psig Test Temp. 82 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul L. Satt* Date 12/16, 1998
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 7-98 to 12-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Hill Commissions NC 978
Inspector's Signature

Date 12-16, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANYAddress 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-10062. Plant CATAWBA NUCLEAR STATIONAddress 4800 CONCORD RD. YORK, S.C. 297453. Work Performed By Duke Power CompanyAddress 526 S. Church St. Charlotte, N.C. 28201-1006Type Code Symbol Stamp N/A Authorization No. N/AExpiration Date N/A

4 Identification of System

RN NUCLEAR SERVICE WATER SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	2"Pipe-SA312, Cap, Elbow-SA-182, Half Coupling SA-105		REPLACEMENT	
B	Pipe	Duke Power Co.	C-2RN	160	Weld ORN56-8		REPLACEMENT	
C	Valve	Xomox	8197088	71	Valve 2RN-A99	1977	REPLACED	
D	Valve	BNL Ind.	A970801		Valve 2RN-A99	1997	REPLACEMENT	
E							REPAIRED	
F							REPAIRED	

1a Date 10/29/98

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98024301-05

3b NSM or MN # CE-9451

Class C

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace 2RN-A99 with SS Assembly_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
 Pressure 81.5 psig Test Temp. 78.5 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul J. Smith
 Owner or Owner's Designee, Title

Date 10/29, 19 98

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 7-6-98 to 11-2-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McDill
 Inspector's Signature

Commissions NC 978

Date 11-2, 19 98

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

4 Identification of System

RN NUCLEAR SERVICE WATER SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

1a Date 12/09/98

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98024302-05

3b NSM or MN # CE09451

Class C

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	2" Pipe-SA312 Typ. 304, Elbow-SA182 <i>Coupling - SA105</i>		REPLACED	
B	Pipe	Duke Power Co.	C-2RN	160	Pipe weld- 0RN58-8		REPLACED	
C	Valve	BNL XOMOX	89217616	2350	Valve tag 2RN95A	1979	REPLACED	
D	Valve	BNL	A9708-01-1-15		Valve tag 2RN95A	1997	REPLACED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Vent Line with Valve 2RN95A_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 74 psig Test Temp. 78 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul L Smith*
Owner or Owner's Designee, Title

Date 12/9, 19 98

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-6-98 to 12-10-98 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McElwain

Inspector's Signature

Commissions NC 978

Date 12-10, 19 98

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

1a Date 01/19/99

Sheet 1 of 1

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

2a Unit 1 2 3 Shared (specify Units)

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

3a Work Order # 98025807-07

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

3b NSM or MN # CE-9467

Expiration Date N/A

4 Identification of System CA AUXILIARY FEEDWATER SYSTEM Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	Atwood/Morrill	3-14416-08	A102	Valve tag #2CA053	1984	REPLACED	
B	Valve	ADV	E206A1-1	2030	Valve tag #2CA053	1998	REPLACED	
C	Pipe	Duke Power Co.	C-2CA	159	Pipe welds- 2CA63-10, 2CA64-8		REPLACED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace valve 2CA053_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 1680 psig Test Temp. 90 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul L. Smith*
Owner or Owner's Designee, Title

Date 1-19, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-15-98 to 12-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. DiU
Inspector's Signature

Commissions NC 978

Date 1-27, 1999

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

1a Date 11/10/98

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98026273-08

3b NSM or MN # N/A

4 Identification of System

ND RESIDUAL HEAT REMOVAL SYSTEM

Class A

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve Disc	Borg-Warner			For valve 2ND036B		REPLACED	
B	Valve Disc	Borg-Warner			For valve 2ND036B		REPLACEMENT	
C	Bolting				Studs-A564 Nuts-A194 for valve 2ND036B		REPLACEMENT	
D	Bonnet	Borg-Warner			For valve 2ND036B		REPLACED	
E	Bonnet	Borg-Warner			For Valve 2NDO36B		REPLACEMENT	
F	<i>Retainer</i>				<i>For Valve 2ND036B</i>		REPAIRED <i>Replacement</i>	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Valve 2ND036B_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 2231 psig Test Temp. 557 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Robert L Smith
Owner or Owner's Designee, Title

Date 11/10, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-12-98 to 11-11-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill
Inspector's Signature

Commissions NC 978

Date 11-11, 1998

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 12/16/98

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98027029-01

3b NSM or MN # N/A

4 Identification of System
NV CNEMICAL VOLUME CONTROL SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Disc	Anchor Darling			For valve 2NV326		REPLACED	
B	Disc	Anchor Darling	#4		For valve 2NV326		REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Valve 2NV326_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. deg.F. Nominal Operating Pressure Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Robert L. Smith
Owner or Owner's Designee, Title

Date 12/16, 19 98

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-13-98 to 12-16-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Bell
Inspector's Signature

Commissions NC 978

Date 12-16, 19 98

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 01/19/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98029472-03

3b NSM or MN # N/A

4 Identification of System NC REACTOR COOLANT SYSTEM Class A

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	Dresser	B502870	NA	Valve tag #2NC-003	1979	REPLACED	
B	Valve	Dresser	B502867	NA	Valve Tag #2NC-003	1979	REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Valve 2NC-003_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 2250 psig Test Temp. 557 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul J. Smith*
Owner or Owner's Designee, Title

Date 1-19-, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 1-18-98 to 1-26-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Smith
Inspector's Signature

Commissions NC 978

Date 1-26-, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET, CHARLOTTE NC 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, SC 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, NC 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

4 Identification of System NC REACTOR COOLANT SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

1a Date 03/02/99

Sheet of

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98029473-02

3b NSM or MN # N/A

Class A

	Column 1	Column 2	Column 3	Column 4	Column 5	Col 6	Column 7	Column 8
	Name of Component	Name of Mfg.	Mfg. Serial No.	National Board No.	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Safety Relief Valve	Dresser	BS-2865	N/A	1NC-001	1979	**	<input type="checkbox"/> NO <input type="checkbox"/> YES
B	Safety Relief Valve	Dresser	BS-2866	N/A	1NC-002	1979	**	<input type="checkbox"/> NO <input type="checkbox"/> YES
C	Safety Relief Valve	Dresser	BS-2867	N/A	1NC-003	1979	**	<input type="checkbox"/> NO <input type="checkbox"/> YES
D	Safety Relief Valve	Dresser	BS-2868	N/A	SPARE	1979	**	<input type="checkbox"/> NO <input type="checkbox"/> YES
E	Safety Relief Valve	Dresser	BS-2869	N/A	2NC-001	1980	**	<input type="checkbox"/> NO <input type="checkbox"/> YES
F	Safety Relief Valve	Dresser	BS-2870	N/A	2-NC-002	1980	**	<input type="checkbox"/> NO <input type="checkbox"/> YES
G	Safety Relief Valve	Dresser	BS-2871	N/A	2-NC-003	1980	**	<input type="checkbox"/> NO <input type="checkbox"/> YES
H	Safety Relief Valve	Dresser	BS-2872	N/A	SPARE	1979	**	<input type="checkbox"/> NO <input type="checkbox"/> YES

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work : Replace safety relief valve 2NC-001 with existing spare.

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 2235 psig Test Temp. 557 deg.F.

9. Remarks ****** These valves are interchangeable and can be used in any of the valve applications / locations listed.

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed

[Signature]
Owner or Owner's Designee, Title

Date 3 2, 19 99

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-18-98 to 3-4-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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 NC 978

Date 3-4-99

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 03/03/99

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98030024-01

3b NSM or MN # N/A

4 Identification of System
ND RESIDUAL HEAT REMOVAL SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Mechanical Seal	Ingersoll Rand			RHR Pump "2B"		REPLACED	
B	Mechanical Seal	Ingersoll Rand	91144		RHR Pump "2B"		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Mech Seal for ND Pump 2B_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 500 psig Test Temp. 176 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul D. Smith
Owner or Owner's Designee, Title

Date 3/3, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-15-99 to 3-4-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill
Inspector's Signature

Commissions NC 978

Date 3-4, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

1a Date 07/06/99

Sheet 1 of 1

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

2a Unit 1 2 3 Shared (specify Units)

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

3a Work Order # 98032174-01

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

3b NSM or MN # N/A

Expiration Date N/A

4 Identification of System NC REACTOR COOLANT SYSTEM

Class A

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Clamp				For hanger 2-R-NC-1518		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work R/R 2-R-NC-1518_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. deg.F. Nominal Operating Pressure Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Robert L. Smith, Tech. Spec. Date 7/5, 1999
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 7-28-98 to 8-2-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Smith
Inspector's Signature

Commissions NC 978

Date 8-2, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 03/22/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98032175-01

3b NSM or MN # N/A

4 Identification of System CF MAIN FEEDWATER SYSTEM Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Snubber	PSA-3	19873		2-R-CF-1675	1981	REPLACED	
B	Snubber	PSA-3	19975		2-R-CF-1675	1981	REPLACEM	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work R/R Snubbers_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
 Pressure psig Test Temp. deg.F.

9. Remarks Remove and replace snubbers on the following systems
for testing. NV, CE, SA and KC.

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul D. Smith
 Owner or Owner's Designee, Title

Date 3/22, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-2-99 to 3-23-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Own. 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 measure described in this Owners Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Robert McMill
 Inspector's Signature

Commissions NC 978

Date 3 23, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

1a Date 03/22/99

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98032175-01

3b NSM or MN # N/A

4 Identification of System SA MAIN STEAM SUPPLY TO AUX EQUIP Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Snubber	PSA-3	8483		2-R-SA-1519	1979	REPLACED	
B	Snubber	PSA-3	4162		2-R-SA-1519	1978	REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work R/R Snubbers_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
 Pressure psig Test Temp. deg.F.

9. Remarks Remove and replace snubbers on the following systems
for testing. NV, GE, SA and KC.

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul D. Smith
 Owner or Owner's Designee, Title

Date 3/22, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-2-99 to 3-23-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Own: 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 measure described in this Owners Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Robert McGill
 Inspector's Signature

Commissions NC 978

Date 3 23, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 03/22/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98032175-01

3b NSM or MN # N/A

4 Identification of System

Class B

NV CNEMICAL VOLUME CONTROL SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired. Replaced. or Replacement	ASME Code Stamped (yes or no)
A	Snubber	PSA-3	9641		2-R-NV-0245	1979	REPLACED	
B	Snubber	PSA-3	6394		2-R-NV-0245	1978	REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work R/R Snubbers_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure psig Test Temp. deg.F.

9. Remarks Remove and replace snubbers on the following systems
for testing. NV, CE, SA and KC.

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul D. Smith
Owner or Owner's Designee, Title

Date 3/22 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-2-99 to 3-23-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Own. 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 measure described in this Owners Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Robert McMill
Inspector's Signature

Commissions NC 978

Date 3 23 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 03/22/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98032175-01

3b NSM or MN # N/A

4 Identification of System KC COMPONENT COOLING SYSTEM Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Snubber	PSA-3	19921		2-A-KC-3637	1981	REPLACED	
B	Snubber	PSA-3	8541		2-A-KC-3637	1979	REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work R/R Snubbers

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure psig Test Temp. deg.F.

9. Remarks Remove and replace snubbers on the following systems for testing. NV, CE, SA and KC.

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul D. Smith
Owner or Owner's Designee, Title

Date 3/22, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-2-99 to 3-23-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill
Inspector's Signature

Commissions NC 978

Date 3-23, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 02/02/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98034165-01

3b NSM or MN # N/A

4 Identification of System CF MAIN FEEDWATER SYSTEM Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Disc	Atwood Morril	M534		For valve 2CF166	1997	REPLACED	
B	Disc	Atwood Morril	M533		For valve 2CF166	1997	REPLACED	
C	Pin	Atwood Morril	2		For valve 2CF166		REPLACED	
D	Pin	Atwood Morril	3		For valve 2CF166		REPLACED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work R/R valve 2CF166_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature] _____
Owner or Owner's Designee, Title

Date 2/2, 19 99

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-17-98 to 2-2-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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 NC 978

Date 2-2, 19 99

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 12/21/98

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98034795-01

3b NSM or MN # N/A

4 Identification of System

Class C

RN NUCLEAR SERVICE WATER SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bolting				5/8" Rod-SA193, Nut-SA194 for Valve 2RN855		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Valve 2RN855_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul D Smith
Owner or Owner's Designee, Title

Date 12/21, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-7-98 to 12-22-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Dill
Inspector's Signature

Commissions NC 978

Date 12-22, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 01/19/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St, Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98036519-06

3b NSM or MN # N/A

4 Identification of System NS CONTAINMENT SPRAY SYSTEM Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bolting				½" Bolt-ASTM A325, ½"Nut-ASTM A563 for hanger 2-A-NS-3069		REPLACED	
B	Bolting				½" Bolt-ASTM A325, ½" Nut- ASTM A563 for hanger 2-A-NS-3070		REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work R/R Channel Endbell Cover_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. deg.F. Nominal Operating Pressure Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature]
Owner or Owner's Designee, Title

Date 1-19, 19 99

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 1-1-99 to 1-26-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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 NC 978

Date 1-26, 19 99

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

4 Identification of System YC- Control Area Chilled Wtr. Sys.

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

1a Date 03/16/99

Sheet 1 of 1

2a Unit ^{03/16/99} 1 2 3 Shared (specify Units)

3a Work Order # 98044902-01

3b NSM or MN # N/A

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Cap Screw				For end bells on the Control Room Area Chiller 2CRA-C-1		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work R/R Bolting Material_

8. Test Conducted: Hydrostatic Pressure Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul J. Smith* Date 3/11, 1999
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 1-11-99 to 3-22-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Smith Commissions NC 978
Inspector's Signature

Date 3.22, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 11/24/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98067346-10

3b NSM or MN # N/A

4 Identification of System NM NUCLEAR SAMPLING SYSTEM Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bolts				¼" Rod-SA307, Nuts-A194 for Hanger 2-P-NM-5063		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Modify Hanger 2-P-NM-5063_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L. Smith
Owner or Owner's Designee, Title

Date 10/24, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-6-98 to 11-30-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill
Inspector's Signature

Commissions NC 978

Date 11-30, 1998

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

4 Identification of System

SV MAIN STEAM VENT TO ATMOSPHERE

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

1a Date 03/16/99

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98076246-01

3b NSM or MN # N/A

Class B

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Plug Assembly				For valve tag 2SV-19		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Repair Seat Leak

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature] Owner or Owner's Designee, Title

Date 3/16, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 11-10-98 to 3-22-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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 NC 978

Date 3-22, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 03/16/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98077375-01

3b NSM or MN # N/A

4 Identification of System
SV MAIN STEAM VENT TO ATMOSPHERE

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired. Replaced. or Replacement	ASME Code Stamped (yes or no)
A	Plug Assembly				For valve tag 2SV-1		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Repair Seat Leak

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature] Owner or Owner's Designee, Title

Date 3/16, 19 99

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 1-25-99 to 3-22-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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 NC 978

Date 3-22, 19 99

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 12/21/98

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98083937-01

3b NSM or MN # N/A

4 Identification of System SA MAIN STEAM SUPPLY TO AUX EQUIP Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bolting				1" Bolt-SA193, Nut-SA194 for Hanger 2-R-SA-1506, 2-R-SA-1508		REPLACEMENT	
B	Bolting				¾" Bolt-SA193, Nut-SA194 for Hanger 2-R-SA-1504		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace pipe clamp bolts_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Robert J. Smith*
Owner or Owner's Designee, Title

Date 12-21, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-23-98 to 12-22-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Hill
Inspector's Signature

Commissions NC 978

Date 12-22, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 12/16/98

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98084141-01

3b NSM or MN # N/A

4 Identification of System

Class B

NV CNEMICAL VOLUME CONTROL SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Disc	Anchor Darling			For valve 2NV17		REPLACED	
B	Disc	Anchor Darling	B65056, B65057		For valve 2NV17		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Leakage for 2NV17_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L. Smith
Owner or Owner's Designee, Title

Date 12/16, 1998

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-18-98 to 12-16-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McFall
Inspector's Signature

Commissions NC 978

Date 12-16, 1998

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 03/02/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98086957-01

3b NSM or MN # N/A

4 Identification of System

Class B

NV CNEMICAL VOLUME CONTROL SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bolt				Nuts-SA194 Gr. 2H for hanger 2-R-NV-1622		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace missing nuts.

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul A. Sata
Owner or Owner's Designee, Title

Date 3/2, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-29-98 to 3-1999; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill
Inspector's Signature

Commissions NC 978

Date 3-4, 1999

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 02/16/99

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98087251-04

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	Anderson-Greenwood	N20383	394	Valve tag #2RN-405	1983	REPLACED	
B	Valve	Anderson-Greenwood	97/19085	2567	Valve tag #2RN-405	1997	REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Valve 2RN405_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 100 psig Test Temp. 41 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Patricia L Smith*
Owner or Owner's Designee, Title

Date 2/16, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 1-3-98 to 2-18-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Hill
Inspector's Signature

Commissions NC 978

Date 2-14, 1999

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 02/02/99

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98088448-01

3b NSM or MN # CE-9879

4 Identification of System VN Diesel Gen. Starting Air Sys.

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bolting				1 1/2" Rod-SA193, Hex Nut-SA194 for DG Silencer "2B"		REPLACED	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Gasket on DG 2B Silencer_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L Smith
Owner or Owner's Designee, Title

Date 2/2, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-27-98 to 2-2-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McNeil
Inspector's Signature

Commissions NC 978

Date 2-2, 1999

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 03/03/99

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98088518-04

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve	Anderson Greenwood	N22723	1594	Valve tag #2RN438	1985	REPLACED	
B	Valve	Anderson Greenwood	N22722	1593	Valve tag #2RN438	1985	REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace valve 2RN438_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 133 psig Test Temp. 40 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul J. Smith*
Owner or Owner's Designee, Title

Date 3/3, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 10-1-98 to 3-4-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert Merrill
Inspector's Signature

Commissions NC 978

Date 3-4, 1999

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 08/25/99

2. Plant CATAWBA NUCLEAR STATION
Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
Address 526 S. Church St. Charlotte, N.C. 28201-1006
Type Code Symbol Stamp N/A Authorization No. N/A
Expiration Date N/A

3a Work Order # 98113654-01

3b NSM or MN # N/A

4 Identification of System KC COMPONENT COOLING SYSTEM Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Snubber	PSA	17507		2-R-KC-553	1983	REPLACED	
B	Snubber	PSA	17605		2-R-KC-553	1983	REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace 1-R-KC-553_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure psig Test Temp. deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paulton L Smith* Tech Spec. Date 8/25, 1999
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 7-14-99 to 9-2-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert Mylin

Commissions NC 978

Inspector's Signature

Date 9-2, 1999

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 04/04/00

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
Address 526 S. Church St. Charlotte, N.C. 28201-1006
Type Code Symbol Stamp N/A Authorization No. N/A
Expiration Date N/A

3a Work Order # 98116919-01

3b NSM or MN # N/A

4 Identification of System
KD DIESEL GENERATOR COOLING WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Disc	Kerotest			For valve 2KD0001		REPLACED	
B	Disc	Kerotest	15		For valve 2KD0001		REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Seat leak for 2KD0001_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paulton J. Smith TECH SPEC Date 4/4, 2000
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 NORTH CAROLINA and employed by HSB LAND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 3-13-00 to 4-4-00 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McGill
Inspector's Signature

Commissions NC 978

Date 4-4, 2000

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

Expiration Date N/A

4 Identification of System

NV CNEMICAL VOLUME CONTROL SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

1a Date 03/16/99

Sheet 1 of 1

2a Unit 1 2 3 Shared (specify Units)

3a Work Order # 98118467-01

3b NSM or MN # N/A

Class B

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Trunnion Bolts				For Seal Water Injection Filters "2A"		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Trunnion Bolts_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. deg.F. Nominal Operating Pressure Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul D. Smith*
Owner or Owner's Designee, Title

Date 3/16, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 1-13-99 to 3-22-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McGill
Inspector's Signature

Commissions NC 978

Date 3-22, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 03/16/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98136435-01

3b NSM or MN # N/A

4 Identification of System
ND RESIDUAL HEAT REMOVAL SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bolt				1 1/8" Rod- SA193, Nut- SA194 for RHR Heat Exchanger "A"		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work I/R Dry Boron Accumulation

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 257 psig Test Temp. 96 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul J. Smith*
Owner or Owner's Designee, Title

Date 3/16, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 2-25-99 to 3-22-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McShiv
Inspector's Signature

Commissions NC 978

Date 3-22, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 07/28/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98140807-01

3b NSM or MN # N/A

4 Identification of System YC-Control Room Area Chiller

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Base Metal Repair			140426	Control Room Area Chiller 2CRA-C-1	1978	REPAIRED	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Repair Control Room Area Chiller_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. deg.F. Nominal Operating Pressure Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul A. Smith Tech Spec. Date 7/28, 1999
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 6-22-99 to 8-16-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McNeil
Inspector's Signature

Commissions NC 978

Date 8-16, 1999

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 07/28/99

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 97111294-02
 98144079-01

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pump	Bingham	230375	574	Nuclear Service Water Pump "2B"		REPLACED	
B	Pump	Bingham	230376	575	Nuclear Service Water Pump "2B"		REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace RN Pump "2B" _

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 73 psig Test Temp. 77.2 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L Smith Tech Spec Date 7/28, 19 99
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 7-20-99 to 8-16-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Smith Commissions NC 978
Inspector's Signature

Date 8-16, 19 99

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 05/27/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98155699

3b NSM or MN # 98158928-01 (FUNCTIONAL)
98154587-01 (FUNCTIONAL)
 CE-61479

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	Welds 2RN61-44,45,46,47 2RN55-38,23,24,25,26,27 2RN54-13,22,21		REPLACEMENT	
B	8" Pipe	Duke Power Co.	C-2RN	160	Pipe-SA-106 CS, 90 Ell- SA234 CS, Flange- SA105 CS		REPLACEMENT	
C	6" Pipe	Duke Power Co.	C-2RN	160	Pipe-SA106 CS, Flange-SA105 CS, 90 Ell-SA234 CS, 8x6 Red-SA234 CS		REPLACEMENT	
D	Bolt				3/4" threaded Rod Gr. B7, 3/4" Hex Nut Gr. 2H		REPLACEMENT	
E	Valve	Limitorque	958430203	375	Valve tag #2RNE95	1999	REPAIRED Add	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace RN Piping per CE-61479 _

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 75 psig Test Temp. 62 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Robert Smith*
Owner or Owner's Designee, Title

Date 5/27, 1999

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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 5-11-99 to 5-27-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert Smith

Inspector's Signature

Commissions NC 978

Date 5-27, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 10/07/99

Sheet 1 of 2

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98156239-01
98158913-01

3b NSM or MN # CE-61480

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	10" 8" & 6" Pipe Materials	Duke Power Co.	C-2RN	160	Pipe-SA106, 90 Elbow-SA234, 8x6 Reducers- SA234, 10x8 Reducers-SA234		REPLACEMENT	
B					Flange-SA105 Orifice plate-SA182		REPLACEMENT	
C	Bolting	Duke Power Co.	C-2RN	160	Rod-SA193, Nuts-SA194		REPLACEMENT	
D	Sway Strut	ITT Grinnell	1993-167		For hanger 2-R-RN-140	1981	REPLACED	
E	Sway Strut	ITT Grinnell	8983		For hanger 2_R-RN-140	1979	REPLACEMENT	
F	Valve	Limitorque	94562-01A	339	For valve tag 2RNE-94	1997	REPLACEMENT Addition	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Add Flow Instrument to RN Piping

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 75 psig Test Temp. 63 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L. Smith TECH SPEC Date 10/6 1999
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 NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 5-7-99 to 10-11-99 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 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 measure described in this Owners Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Robert McGill
Inspector's Signature

Commissions NC 978

Date 10-11 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 10/07/99

Sheet 2 of 2

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98156239-01
98158913-01

3b NSM or MN # CE-61480

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe Welds	Duke Power Co.	C-2RN	160	2RN44-10,9,8,7,2 2RN57-7,23,22 2RN112-22,23,11,8,10,9		REPLACED	
B					2RN110-1 2RN140-3 CS 1/8/99		REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Add Flow Instrument to RN Piping_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 75 psig Test Temp. 63 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul L. Smith TECH SPEC Date 10/6, 1999
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 NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 5-7-99 to 10-11-99 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McGill Commissions NC 978
Inspector's Signature

Date 10-11, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 08/02/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98158658-13

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-2RN	160	6" Pipe-SA106, 90 ell-SA-105		REPLACED	
B	Pipe Welds	Duke Power Co.	C-2RN	160	2RN304-1,17,20,18, 2RN54-11,13,15,10,12		REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Clean RN Piping

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 74.4 psig Test Temp. 61.6 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul J. Smith, Tech Spec Date 8/2, 19 99
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 5-11-99 to 8-25-99 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McMill
Inspector's Signature

Commissions NC 978

Date 8-25, 19 99

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

As Required By The Provisions Of The ASME Code Section XI

Sheet 1 of 1

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 08/02/99

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98158660-06

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Pipe	Duke Power Co.	C-1RN	160	6" pipe-SA106 Gr. B		REPLACEMENT	
B	Pipe	Duke Power Co.	C-2RN	160	Pipe Welds-2RN44-15 2RN46-20,19		REPLACEMENT	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Clean RN Piping

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 75 psig Test Temp. 62 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul J. Smith, Tech. Spec. Date 8/2, 1999
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 Providence of NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 5-8-99 to 8-25-99; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Hill

Inspector's Signature

Commissions NC 978

Date 8-25, 1999

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 08/03/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
Address 526 S. Church St. Charlotte, N.C. 28201-1006
Type Code Symbol Stamp N/A Authorization No. N/A
Expiration Date N/A

3a Work Order # 98161727-01

3b NSM or MN # N/A

4 Identification of System
RN NUCLEAR SERVICE WATER SYSTEM

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Disc/Ball	ITT			For valve 2RND039		REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 12/13/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98184518-05

3b NSM or MN # N/A

4 Identification of System VG-DG Starting Air Cooler Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Endbell	Process Engineering	F01878	5320	DG Aftercooler "2B2"	1979	REPLACED	
B	Pipe	Duke Power Co.	C-2VG	161	6" pipe-SA106 for endbell to VG Aftercooler "2B"		REPLACED	
C	Bolting				Studs-SA193		REPLACED	
D	Pipe Welds	Duke Power Co.	C-2VG	161	1212.03-003.001-2B2-11,12		REPLACED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace endbells and nozzles_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 80 psig Test Temp. 57 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul D. Smith* TECH SPEC Date 12/13, 19 99
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 NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-15-99 to 12-13-99 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McNeil
Inspector's Signature

Commissions NC 978

Date 12-13, 19 99

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 10/25/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98184521-05

3b NSM or MN # N/A

4 Identification of System VG-D/G Starting Air System

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	D/G Aftercooler "2A2"	Process Engineering	F-01578	5317	Replace Endbell and nozzles	1979	REPLACED	
B	Pipe	Duke Power Co.	C-2VG	161	Pipe welds-1212.03-003-2A2-11,12 6" CS SA106 Pipe		REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace Endbell_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 80 psig Test Temp. 72 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul L. Smith* TECH SPEC Date 10/25, 1999
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 NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-25-99 to 10-25-99 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert M. Shaw Commissions NC 978
Inspector's Signature

Date 10-25, 1999

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
 Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 11/17/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
 Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
 Address 526 S. Church St. Charlotte, N.C. 28201-1006
 Type Code Symbol Stamp N/A Authorization No. N/A
 Expiration Date N/A

3a Work Order # 98184524-05

3b NSM or MN # N/A

4 Identification of System VG- DG Starting Air System

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Endbell	Process Engineering	F-01678	5318	DG Aftercooler "2A1"	1979	REPLACED	
B	Pipe	Duke Power Co.	C-2VG	161	6" Pipe-SA106, Flange-SA105, Cover-SA516		REPLACED	
C	Pipe	Duke Power Co.	C-2VG	161	Pipe welds- 1212.03-003.001-2A1-11,12		REPLACED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace endbell to Aftercooler 2A1

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 75 psig Test Temp. 60 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed Paul D. Smith TECH SPEC Date 11/17, 1999
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 NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-15-99 to 11-17-99 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McShir
Inspector's Signature

Commissions NC 978

Date 11-17, 1999

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006

1a Date 09/30/99

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
Address 526 S. Church St. Charlotte, N.C. 28201-1006
Type Code Symbol Stamp N/A Authorization No. N/A
Expiration Date N/A

3a Work Order # 98185707-01

3b NSM or MN # N/A

4 Identification of System YC-Cotrol Area Chilled Wtr. Sys.

Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired. Replaced. or Replacement	ASME Code Stamped (yes or no)
A	Bolts	Carrier	700425	141116	Bolts-SA449/nuts-SA193 for Endbell Control Room Area Chiller	1979	REPLACEMENT	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Clean/Inspect Condenser_

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed [Signature] TECH SPEC Date 8/30, 19 99
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 NORTH CAROLINA and employed by HSB I AND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-13-99 to 9-30-99 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owners 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 NC 978

Date 9-30, 19-99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY
Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

1a Date 03/29/00

Sheet 1 of 1

2. Plant CATAWBA NUCLEAR STATION
Address 4800 CONCORD RD. YORK, S.C. 29745

2a Unit 1 2 3 Shared (specify Units)

3. Work Performed By Duke Power Company
Address 526 S. Church St. Charlotte, N.C. 28201-1006
Type Code Symbol Stamp N/A Authorization No. N/A
Expiration Date N/A

3a Work Order # 98190647-01

3b NSM or MN # N/A

4 Identification of System SM MAIN STEAM SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Bolting				Bolt-SA193 for Main Steam Heat Exchanger "2B"		REPLACED	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work R/R Handhole Covers

8. Test Conducted: Hydrostatic Pressure psig Pneumatic Test Temp. Nominal Operating Pressure deg.F. Other Exempt

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul D. Smith* TECH SPEC Date 3/29, 2000
 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 NORTH CAROLINA and employed by HSB LAND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 3-21-00 to 3-31-00 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McNeil
 Inspector's Signature

Commissions NC 978

Date 3-31, 2000

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANYAddress 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-10062. Plant CATAWBA NUCLEAR STATIONAddress 4800 CONCORD RD. YORK, S.C. 297453. Work Performed By Duke Power CompanyAddress 526 S. Church St. Charlotte, N.C. 28201-1006Type Code Symbol Stamp N/A Authorization No. N/AExpiration Date N/A4 Identification of System VG- Diesel Generator Starting Air Sys.Class C

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, N-416-1 Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	End Cover	Process Engineering	F01578	5318	DG Aftercooler "2A2"	1972	REPLACED	
B	Pipe Weld	Duke Power Co.	C-2VG	161	Weld 1212-03.003.001-2A2-11		REPLACED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

1a Date 01/17/002a Unit 1 2 3 Shared (specify Units)3a Work Order # 98213429-043b NSM or MN # 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 reports included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. Description of Work Replace end cover on HX_

8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt
Pressure 70 psig Test Temp. 47.5 deg.F.

9. Remarks _____

(Applicable Manufacturers Data Records to be attached)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Expiration Date N/A

Certificate of Authorization No. N/A

Signed *Paul D. Smith* TECH SPEC Date 1/17 2000
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 NORTH CAROLINA and employed by HSB LAND I Company of Hartford Connecticut have inspected the components described in this Owners Report during the period 9-15-99 to 1-18-00 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert McGill
Inspector's Signature

Commissions NC 978

Date 1-18 2000

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE POWER COMPANY

1a Date 03/27/00

Sheet 1 of 1

Address 526 S. CHURCH STREET, CHARLOTTE N.C. 28201-1006

2. Plant CATAWBA NUCLEAR STATION

2a Unit 1 2 3 Shared (specify Units)

Address 4800 CONCORD RD. YORK, S.C. 29745

3. Work Performed By Duke Power Company

3a Work Order # 98252921-01

Address 526 S. Church St. Charlotte, N.C. 28201-1006

Type Code Symbol Stamp N/A Authorization No. N/A

3b NSM or MN # N/A

Expiration Date N/A

4 Identification of System CF MAIN FEEDWATER SYSTEM

Class B

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, NONE Code Cases

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Addenda NONE

6. Identification of Components Repaired or Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Weld Repair to Valve Disc	Atwood Morrill	C579	NA	Weld repair hinge hole for valve disc.		REPAIRED	
B							REPAIRED	
C							REPAIRED	
D							REPAIRED	
E							REPAIRED	
F							REPAIRED	

11.0 Pressure Testing

There are three refueling outages scheduled for the second period of the second inspection interval for Duke Energy's Catawba Nuclear Station Unit 2. This section describes Pressure Tests performed during the second period through the 2000 refueling outage (also referred to as EOC-10).

Examination Category	Test Requirement	Total Examinations Required For This Period	Total Examinations Credited For This Period	(%) Examinations Complete For This Period
B-E	System Hydrostatic Test (IWB-5222)	0	0	0%
B-P	System Leakage Test (IWB-5221)	3	1	33.33%
B-P	System Hydrostatic Test (IWB-5222)	0	0	0%
C-H	System Inservice/Functional Test (IWC-5221)	21	0	0%
C-H	System Hydrostatic Test (IWC-5222)	0	0	0%

A detailed description of each Examination Category listed above is located in subsection 11.1 of this report. Results of each Examination Category are located in subsection 11.2 of this report.

11.1 Required Examinations This Outage:

A listing of each VT-2 Visual Examination required for EOC-10 is included in this section.

The information shown below is a field description for the listing format included in this section of the report:

- Zone No. = The unique number assigned to track certain extremity valves that make up a test.
- Flow Drawing = Detail drawing of pressure test boundary.
- Required Test L/I/F/H = A column of information that shows an "X" indicating the required tests for the examination zone. L = "Leakage Test", I = "Inservice Test", F = "Functional Test", and H = "Hydrostatic Test".
- System Name = Name of pressure retaining component system.
- Required Inspection = Type of visual examination required.
- Required Procedure = Required inspection procedure.
- ASME Item Number(s) = ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), and IWD-2500-1 (Class 3).

Duke Power Company - Catawba Unit 2
Pressure Testing Zone Number Listing

Outage 10

Int = 2
Period = 2

Zone Number	Boundary Drawing	Required Test L / I / F / H			System Name	Required Inspection	Required Procedure	ASME Item Number(s)	Comments
2NC-001L-A	CN-2553-1.0	X			Reactor Coolant (NC)	VT-2	QAL-15	B15.10 B15.30 B15.50 B15.60 B15.70	N/A
	CN-2553-1.1	X			Reactor Coolant (NC)	VT-2	QAL-15	B15.20 B15.50 B15.70	N/A
	CN-2554-1.0	X			Reactor Coolant (NC)	VT-2	QAL-15	B15.50 B15.70	N/A
	CN-2554-1.5	X			Reactor Coolant (NC)	VT-2	QAL-15	B15.50 B15.70	N/A
	CN-2561-1.0	X			Reactor Coolant (NC)	VT-2	QAL-15	B15.50 B15.70	N/A
	CN-2561-1.1	X			Reactor Coolant (NC)	VT-2	QAL-15	B15.50 B15.70	N/A
	CN-2562-1.0	X			Reactor Coolant (NC)	VT-2	QAL-15	B15.50 B15.70	N/A
	CN-2562-1.1	X			Reactor Coolant (NC)	VT-2	QAL-15	B15.50 B15.70	N/A
	CN-2562-1.2	X			Reactor Coolant (NC)	VT-2	QAL-15	B15.50 B15.70	N/A
	CN-2562-1.3	X			Reactor Coolant (NC)	VT-2	QAL-15	B15.50 B15.70	N/A

11.2 Examination Results For This Outage:

The results of each VT-2 Visual Examination required for EOC-10 are included in this section.

The information shown below is a field description for the Class 1 and Class 2 listing format included in this section of the report:

Zone Number	=	The unique number assigned to track certain extremity valves that make up a test.
Flow Drawing	=	Detail drawing of pressure test boundary.
Outage	=	The number for the refueling outage cycle.
Test Status	=	Complete, Partial, Not Tested, or Not Required
Test Result	=	Clear (No Evidence Of Leakage), Recordable (Evidence Of Leakage - Not Through Wall such as packing leak), Reportable (Evidence Of Through Wall Leakage).
VT-2 Examiner	=	The name of the Level II Visual examiner.
VT-2 Date	=	Date that VT-2 visual examination was performed.

Current Interval = 2
Current Period = 2
Class = A

Duke Power Company - Catawba Unit 2
Pressure Testing VT-2 Examination Results

Zone Number	Boundary Drawing	Outage	Test Status	Test Result	VT-2 Examiner	VT-2 Date
2NC-001L-A	CN-2553-1.0	10	Complete	Clear	J. Brown C. Mathews T. Murray J. Persinger M. Wiles	04/07/2000
	CN-2553-1.1	10	Complete	Clear	C. Mathews	04/07/2000
	CN-2554-1.0	10	Complete	Clear	J. Brown	04/07/2000
	CN-2554-1.5	10	Complete	Clear	J. Brown	04/07/2000
	CN-2561-1.0	10	Complete	Clear	M. Wiles	04/07/2000
	CN-2561-1.1	10	Complete	Clear	M. Wiles	04/07/2000
	CN-2562-1.0	10	Complete	Clear	M. Wiles	04/07/2000
	CN-2562-1.1	10	Complete	Clear	T. Murray	04/07/2000
	CN-2562-1.2	10	Complete	Clear	T. Murray	04/07/2000
	CN-2562-1.3	10	Complete	Clear	T. Murray	04/07/2000

11.3 Reportable Indications:

None