Duke Energy®
Carolinas

JAMES R. MORRIS, VICE PRESIDENT

Duke Energy Carolinas, LLC
Catawba Nuclear Station
4800 Concord Road / CN01VP
York, SC 29745

803-701-4251
803-701-3221 fax

July 14, 2009

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

Subject: Duke Energy Carolinas, LLC
Catawba Nuclear Station, Unit 2
Docket Number 50-414
Inservice Inspection Report and Steam Generator In-service Inspection Summary Report for End of Cycle 16 Refueling Outage

Please find attached the subject reports which provide the results of the inservice inspection and the steam generator inspection associated with the subject outage. Note that the Steam Generator In-service Inspection Summary Report being submitted herein fulfills the requirements of both the ASME Code and Catawba Technical Specification 5.6.8, "Steam Generator (SG) Tube Inspection Report".

There are no regulatory commitments contained in this letter or its attachments.

If you have any questions concerning this material, please call L.J. Rudy at (803) 701-3084.

Very truly yours,

James R. Morris

LJR/s

Attachments

A047
NRR

xc (with attachments):

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

A. Hutto, III, Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Catawba Nuclear Station

J.H. Thompson, Senior Project Manager (addressee only)
U.S. Nuclear Regulatory Commission
Mail Stop 8 G9A
Washington, D.C. 20555-0001

Attachment 1

Catawba Unit 2 End of Cycle 16 Inservice Inspection Report

INSERVICE INSPECTION REPORT

CATAWBA - UNIT 2

2009 REFUELING OUTAGE

EOC16 (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 Carolinas, LLC
526 South Church St.
Charlotte, N.C. 28201-1006

Revision 0

Originated By: _____ Date 07/07/2009

Checked By: _____ Date 07/07/2009

Approved By: _____ Date 07/09/09

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Energy Carolinas, LLC, 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: 08/19/86 6. National Board Number for Unit: 173

7. Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
	See Section 1.1 in the Attached Report			

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

Total number of pages contained in this report 201

FORM NIS-1 (Back)

8. Examination Dates: November 17, 2007 to April 19, 2009

9. Inspection Period Identification: Second Period

10. Inspection Interval Identification: Third Interval

11. Applicable Edition of Section XI: 1998 Addenda 2000

12. Date / Revision of Inspection Plan: June 26, 2008 / Revision 1

13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan: See Sections 2.0, 3.0 and 6.0

14. Abstract of Results of Examinations and Tests: See Section 4.0 and 6.0

15. Abstract of Corrective Measures: See Subsection 4.3

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

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

Date 07/09/09 Signed Duke Energy Carolinas, LLC Owner By

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 South Carolina employed by * HSB of Connecticut have inspected the components described in this Owner's Report during the period 7-8-09 to 7-9-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

Kenneth Whitehurst Commissions SC 233 I IV N
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-9-09

* The Hartford Steam Boiler Inspection & Insurance Company of Connecticut
200 Ashford Center North
Suite 205
Atlanta, GA. 30338-4860
(800) 417-3721
www.hsbct.com

DISTRIBUTION LIST

1. Duke Energy Carolinas, LLC
   Nuclear Technical Services Division
   Section XI Program (SXIP)(Original)

2. NRC Document Control Desk

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1.0 General Information

This report describes the Inservice Inspection of Duke Energy's Catawba Nuclear Station Unit 2 during Outage 3 / EOC16. This is the First Outage of the Second Inspection Period of the Third Ten-Year Interval. ASME Section XI, 1998 Edition with 2000 Addenda, was the governing Code for selection and performance of the ISI examinations.

Included in this report are the inspection status for each examination category, the final inservice inspection plan, the inspection results for each item examined, and corrective actions taken when reportable conditions were found. In addition, there is an Owner's Report for Repair / Replacement Section included for completed NIS-2 documentation of repairs and replacements.

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 2B 2267-3D	N/A N/A	848 849
Containment Spray Heat Exchanger	Joseph Oat Corporation	2A 2636-B 2B 2636-C	N/A N/A	3449 3456
Seal Water Injection Filter	Pall Trinity Micro Corporation	2A 35367 2B 35366	N/A N/A	19025 19024
Volume Control Tank	Richmond Engineering Company	N-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 Personnel, Equipment and Material Certifications

All personnel who performed or evaluated the results of inservice inspections during the time frame bracketed by the examination dates shown on the NIS-1 Form were qualified in accordance with the requirements of ASME Section XI, IWA-2300, 1998 Edition through the 2000 Addenda. Ultrasonic examiners, procedures and equipment were qualified in accordance with the requirements of Appendix VIII, as administered by the Performance Demonstration Initiative (PDI) for components within the scope of Appendix VIII.

The appropriate certification records for each inspector, calibration records for inspection equipment, and records of materials used (i.e. NDE consumables) are on file at Catawba Nuclear Station or copies may be obtained by contacting the Duke Energy Corporate Office in Charlotte, North Carolina.

The copies of the certification records for Washington Group and Atlantic Group inspectors can be obtained by contacting the Duke Energy Corporate Office in Charlotte, North Carolina.

1.3 Reference Documents

The following reference documents apply to the inservice inspections performed during this report period. A copy may be obtained by contacting the ISI Plan Manager at Duke Energy's Corporate Office in Charlotte, North Carolina.

Duke Energy's Catawba Nuclear Station, Unit 2 Docket Number 50-414, Request for Relief for limited weld coverage during the End-of-Cycle 16 Refueling Outage will be filed in a separate submittal at a later date.

Code Case N-460 – Alternative Examination Coverage for Class 1 and Class 2 Welds Section XI, Division 1 (Applicable to items in this report where less than 100% coverage of the required weld examination volume was achieved. These items are identified in the Results Listing located in Section 4.0 of this report.)

Code Case N-700 – Alternate Rules for Selection of Classes 1, 2, and 3 Vessel Welded Attachments for Examination Section XI, Division 1 (Examination Categories B-K, C-C, and D-A)

Code Case N-706 – Alternative Examination Requirements of Table IWB-2500-1 for PWR Stainless Steel Residual and Regenerative Heat Exchangers Section XI, Division 1 (Examination Categories C-A, C-B, and C-F-1)

PIP Serial Number C-09-04090 – The following two welds were determined to have limited examination coverage: Summary Number C2.B9.11.0106, Component ID 2NI70-4 and Summary Number C2.C1.10.0002, Component ID 2SGC-04B-05.

1.4 Augmented and Elective Examinations

Augmented and elective examination information found within this Inservice Inspection Owner's Summary Report is not required by the ASME Section XI Code; therefore, it is exempt from ANII review, verification, and/or record certification.

1.5 Responsible Inspection Agency

Hartford Steam Boiler of Connecticut (HSB CT) is responsible for the third party inspections required by ASME Section XI.

Authorized Nuclear Inservice Inspector(s)

Name:	Kenneth C. Douthit
Employer:	HSB CT
Business Address:	200 Ashford Center North Suite 205 Atlanta, GA 30338-4860 (800) 417-3721 www.hsbct.com

2.0 Third Ten-Year Interval Inspection Status

The completion status of inspections required by the 1998 ASME Section XI Code, 2000 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, Table IWC-2500-1 for Class 2 Inspections and IWF-2500-1 for Class 1 and 2 Component Supports. Augmented / Elective Inspections are also included.

Class 1 Inspections

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*[1]Deferral Allowed*
B-A	Pressure Retaining Welds in Reactor Vessel	25	7	28%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessels	5	1	20%	No
B-D	Full Penetration Welds of Nozzles in Vessels Inspection Program B	36	6	16.67%	Partial
B-F	Pressure Retaining Dissimilar Metal Welds	20	4	20%	Yes
B-G-1	Pressure Retaining Bolting Greater than 2" in Diameter	217	108	49.77%	Yes
B-G-2	Pressure Retaining Bolting 2" and Less in Diameter	34	21	61.76%	No
B-J	Pressure Retaining Welds in Piping	237	79	33.33%	No

Class 1 Inspections (Continued)

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*[1]Deferral Allowed*
B-K	Integral Attachments for Piping, Pumps and Valves	2	1	50%	No
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 Body > 4 in. Nominal Pipe Size	7	1	14.29%	Yes
B-N-1	Interior of Reactor Vessel	3	1	33.33%	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	3	100%	Yes
B-P	All Pressure Retaining Components	REFERENCE SECTION 6.0 OF THIS REPORT			
B-Q	Steam Generator Tubing	**See Note 2 below**			
F-A	Class 1 Component Supports	72	24	33.33%	No

Notes:

1. **Deferral of inspection to the end of the interval as allowed by ASME Section XI Table IWB 2500-1. These examination categories are exempt from percentage requirements per IWB-2412 (a), Inspection Program B.**

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

Class 2 Inspections

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*
C-A	Pressure Retaining Welds in Pressure Vessels	34	21	61.76%
C-B	Pressure Retaining Nozzle Welds in Vessels	16	7	43.75%
C-C	Integral Attachments for Vessels, Piping, Pumps, and Valves	30	14	46.67%
C-D	Pressure Retaining Bolting Greater Than 2" in Diameter	N/A	N/A	N/A
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	301	130	43.19%
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	62	24	38.71%
C-G	Pressure Retaining Welds in Pumps and Valves	20	8	40.00%
C-H	All Pressure Retaining Components	REFERENCE SECTION 6.0 OF THIS REPORT		
F-A	Class 2 Component Supports	251	124	49.40%

Weld Overlay Section XI Appendix Q

Examination Category	*Description*	*Inspections Required*	*Inspections Completed*	*Percentage Completed*	*Deferral Allowed*
C2.Q1.1	Weld Overlay	6	6	100%	No

Augmented / Elective Inspections

Summary Number	*Description*	*Percentage Complete*
B4.10	Bare Metal Visual Examination of the Reactor Head Surface	100% of Outage 3/EOC-16 Requirements Met
B15.80	Bare Metal Visual Examination of the BMI Nozzles on the RPV Bottom Head per requirements of Code Case N-722	100% of Outage 3/EOC-16 Requirements Met
B15.95	Bare Metal Visual Examination of the RPV Cold Leg Nozzles per requirements of Code Case N-722	100% of Outage 3/EOC-16 Requirements Met
C2.G2.1	Postulated Pipe Failures	100% of Outage 3/EOC-16 Requirements Met
C2.G4.1	Unguarded Containment Sump Suction Line Piping Weld	100% of Outage 3/EOC-16 Requirements Met
C2.G6.2	Pressurizer Bare Metal Visual Examinations (NRC Bulletin 2004-01)	100% of Outage 3/EOC-16 Requirements Met
C2.G7.2	Ultrasonic Bare Metal Examination of the RPV Outlet Nozzle to Safe End Welds (MRP-139)	100% of Outage 3/EOC-16 Requirements Met
C2.G8.2	Bare Metal Visual Examination of the RPV Outlet Nozzles (MRP-139)	100% of Outage 3/EOC-16 Requirements Met

3.0 *Final Inservice Inspection Plan*

The final Inservice Inspection Plan Report shown in this section lists all ASME Section XI Class 1, Class 2, Class 3, and Augmented / Elective Examinations credited for this report period.

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

Summary Num	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), IWF-2500-1 (Class 1 and Class 2), Augmented / Elective Requirements
Component ID	=	Unique Identification Number
Class/System	=	ISI Class and Component System Identification
Iso / Dwg. Numbers	=	Location and/or Detail Drawings
Procedure	=	Examination Procedures
Description	=	Configuration of Weld (Nozzle to Pipe)
Comments	=	General and/or Detail Description
Insp Req.	=	Examination Technique (Magnetic Particle, Dye Penetrant, etc.)
Material	=	Material Type (CS, SS, Inconel, etc.)
Sched	=	Description of Material Thickness
Thick / NPS	=	Thickness / Diameter
Cal Blocks	=	Calibration Block Number
Component ID 2	=	Previous Interval Item Number

DUKE ENERGY
NUCLEAR TECHNICAL SERVICES
Inservice Inspection Database Management System
Plan Report
Catawba 2, 3rd Interval, Outage 3 (EOC-16)

This report includes all changes through addendum 3CNS2-038

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.B15.80.0001	2RPV-BMI-NOZZLES Class 1 NC	MP/0/A/7150/042E	NDE-68	VT-2	SS-Inconel		0.000 / 0.000		---
			Inconel Transition Weld to Stainless Steel Tube Bare Metal Visual Inspection by VT-2 qualified inspector of the BMI Nozzles (all nozzles) per the requiements of Code Case N-722 (Item B15.80). The bare metal visual inspection shall include an inspection of the bottom head and Alloy 600 transition weld between the Alloy 600 tube and the stainless steel tube. This exam added per QA-513J Form, dated 1/8/2009 (ER-CNS-09-01). This exam should be scheduled every other outage begining with EOC-16. Reference Footnote 4 of Code Case N-722 for type of examination. Any questions concerning this exam should be directed to the Materials and NDE Services Group (Chris Cruz or Jody Shuping).						
C2.B15.95.0001	2RPV201-121ASE Class 1 NC	CNM 2201.01-0205	NDE-68	VT-2	SS-Inconel		0.000 / 0.000		---
			Nozzlt-to-Pipe Bare Metal Visual Inspection by VT-2 qualified inspector of the reactor vessel cold leg nozzles per the examination requirements of Code Case N-722 Footnote 4(Item Number B15.95), subject to the conditions specified in 10CFR50.55a paragraphs (g)(6)(ii)(E) 2 through 4 . Examination Frequency/Duration: Reactor Vessel cold leg nozzles to be inspected per the requirements of Footnote 1 of 10CFR50.55a. These inspections shall begin in the interval in effect on January 1, 2009 (beginning in 2EOC16), and shall be prorated over the remaining periods and refueling outages in this interval. Any questions concerning this exam should be directed to the Materials and NDE Services Group (Chris Cruz or Jody Shuping).						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.B4.10.0002	2RPV-HEAD-SURFACE-MULTIPLE Class 1 NC	CNM 2201.01-67 CN-ISIN3-2553-1.0 CNM 2201.01-94	NDE-68	VT-2	CS-Inconel		0.000 / 0.000		---
			Schedule starting with 2EOC16 and continue into every outage that the full bare metal visual (C2.B4.10.0001) is not performed. Time between inspections may be shortened, but not lengthened. If EDY <8 and no flaws unacceptable for continued service have been detected, the reexamination frequency of the full bare metal visual may be extended to every third refueling outage or 5 calendar years, whichever is less, provided an IWA-2212 VT-2 visual examination of the head is performed under the insulation through multiple access points in outages that the full bare metal visual is not completed. Provided EDY remains less than 8, the next full bare metal visual will be due in 2EOC18, Therefore, IWA-2212 VT-2 visuals shall be performed in 2EOC16, and then again in 2EOC17, and continue into every outage that the full bare metal visual is not performed. EDY calculation will continued to be updated and if EDY > or equal to 8 these IWA-2212 VT-2 visuals will no longer take place, because a bare metal visual per Code Case N-729-1 will be required every refueling outage. EDY calculation will continue to be updated and if EDY > or equal to 8 the full bare metal visuals will be required every refueling outage, with no flexibility, and these alternative VE's will be discontinued. Once a licensee implements this requirement, the First Revised NRC Order EA-03-009 no longer applies and is deemed to be withdrawn. For coverage requirements, see Figure 1 of Code Case N-729-1. For additional information, reference QA-513J Form (ER-CNS-09-08). For additional information, contact Rachel Doss in the Material and NDE Services Section, Nuclear Technical Services Division. Acceptance criteria specified in ASME Code Case 729-1, subject to conditions in 10CFR50.55a(g)(6)(ii)(D)(2) through (6). Revelant conditions for the purpose of the VE shall include areas of corrosion, boric acid deposits, discoloration, and other evidence of nozzle leakage. Once a licensee implements this requirement the First Revised NRC Order EA-03-009 no longer applies and is deemed to be withdrawn.						
C2.G2.1.0001	2SM38-01 Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-25	MT	CS		1.375 / 34.000		G02.001.001, G02.001.001A
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.G2.1.0001	2SM38-01 Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-600	UT	CS		1.375 / 34.000	Component PDI-UT-1-C	G02.001.001, G02.001.001A
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.G2.1.0002	2SM-4B-A Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-25 Grinnel Piece Mark CW-SM-4B Weld A. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.	MT	CS		1.375 / 34.000		G02.001.002, G02.001.002A
C2.G2.1.0002	2SM-4B-A Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-600 Grinnel Piece Mark CW-SM-4B Weld A. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.	UT	CS		1.375 / 34.000	Component PDI-UT-1-C	G02.001.002, G02.001.002A
C2.G2.1.0003	2SM38-03 Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-25 Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.	MT	CS		1.375 / 34.000		G02.001.003, G02.001.003A
C2.G2.1.0003	2SM38-03 Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-600 Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.	UT	CS		1.375 / 34.000	Component PDI-UT-1-C	G02.001.003, G02.001.003A
C2.G2.1.0004	2SM-5B-A Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-25 Grinnell Piece Mark CW-SM-5B Weld A. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.	MT	CS		1.375 / 34.000		G02.001.004, G02.001.004A

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.G2.1.0004	2SM-5B-A Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-600	UT	CS		1.375 / 34.000	Component PDI-UT-1-C	G02.001.004, G02.001.004A
			Grinnell Piece Mark CW-SM-5B Weld A. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.G2.1.0005	2SM38-05 Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-25	MT	CS		1.750 / 34.000		G02.001.005, G02.001.005A
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.G2.1.0005	2SM38-05 Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-600	UT	CS		1.750 / 34.000	Component PDI-UT-1-C	G02.001.005, G02.001.005A
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.G2.1.0006	2SM38-14 Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-25	MT	CS		1.750 / 34.000		G02.001.006, G02.001.006A
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.G2.1.0006	2SM38-14 Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-600	UT	CS		1.750 / 34.000	Component PDI-UT-1-C	G02.001.006, G02.001.006A
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.G2.1.0007	2SM-7B-A Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-25	MT	CS		1.750 / 34.000		G02.001.007, G02.001.007A
			Grinnell Piece Mark CW-SM-7B Weld A. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.G2.1.0007	2SM-7B-A Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-600	UT	CS		1.750 / 34.000	Component PDI-UT-1-C	G02.001.007, G02.001.007A
			Grinnell Piece Mark CW-SM-7B Weld A. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.G2.1.0008	2SM38-15 Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-25	MT	CS		2.375 / 34.000		G02.001.008, G02.001.008A
C2.G2.1.0008	2SM38-15 Class 2 SM	CN-2SM-038 CN-ISIN3-2593-1.0	NDE-600	UT	CS		2.375 / 34.000	Component	G02.001.008, G02.001.008A
C2.G2.1.0009	2SM-8B-A Class 2 SM	CN-2SM-040 CN-ISIN3-2593-1.0	NDE-25	MT	CS		2.375 / 34.000		G02.001.009, G02.001.009A
			Grinnell Piece Mark CW-SM-8B Weld A.						
C2.G2.1.0009	2SM-8B-A Class 2 SM	CN-2SM-040 CN-ISIN3-2593-1.0	NDE-600	UT	CS		2.375 / 34.000	Component	G02.001.009, G02.001.009A
			Grinnell Piece Mark CW-SM-8B Weld A.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.G2.1.0010	2SM40-01 Class 2 SM	CN-2SM-040 CN-ISIN3-2593-1.0	NDE-25	MT	CS		2.375 / 34.000		G02.001.010, G02.001.010A
C2.G2.1.0010	2SM40-01 Class 2 SM	CN-2SM-040 CN-ISIN3-2593-1.0	NDE-600	UT	CS		2.375 / 34.000	Component	G02.001.010, G02.001.010A
C2.G2.1.0011	2SM42-01 Class 2 SM	CN-2SM-042 CN-ISIN3-2593-1.0	NDE-25	MT	CS		2.375 / 34.000		G02.001.011, G02.001.011A
C2.G2.1.0011	2SM42-01 Class 2 SM	CN-2SM-042 CN-ISIN3-2593-1.0	NDE-600	UT	CS		2.375 / 34.000	Component	G02.001.011, G02.001.011A
C2.G4.1.0001 Circumferential	2NI28-1 Class 2 NI	CN-2NI-28 CN-ISIN3-2562-1.3	PDI-UT-2 Pipe to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used. Weld to be examined once per 10 year interval in the same period.	UT	SS	20	0.312 / 18.000	50235 PDI-UT-2-C	G04.001.001
C2.G6.2.0001	2PZR-MANWAY Class 1 NC	CNM 2201.01-110/1 CNM 2201.01-110/2	NDE-68 Pressurizer Manway Diaphram Seal Weld. Bare Metal Visual Examination by VT-2 qualified inspector. Examine the gap between the Pressurizer Manway Cover and Manway for evidence of diaphram plate seal weld leakage. (For responsibile individual, contact J. M. Shuping, Alloy 600 Engineer Nuclear Technical Services). Reference NRC Bulletin 2004-01)	VT-2	NA		0.000 / 0.000		G06.002.001

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.G7.2.0001	2RPV-202-121ASE								
	Class 1 NC	E 8871-171-009	SI-UT-130	UT	SS-CS		2.625 / 29.000	SI-32-AX-01	G07.002.001
Circumferential		CNM 2201.01-74/5							
Terminal End		CNM 2201.01-0205							
Dissimilar									
			Nozzle to Safe End						
			RV Outlet Nozzle To Safe End At 158 Degrees (Loop A). Reactor Building Coordinate is 22 Degrees. Inspect volume and requirements per MRP-139. For responsibile individual, contact J. M. Shuping, Alloy 600 Engineer Nuclear Technical Services). *Note: This weld location is also required to be inspected per ASME Section XI, Item Number B05.010.006 Outage 6 (EOC19).* A vendor will have to be contracted to perform this inspection.						
C2.G7.2.0002	2RPV202-121BSE								
	Class 1 NC	E 8871-171-009	SI-UT-130	UT	SS-CS		2.625 / 29.000	SI-32-AX-01	G07.002.002
Circumferential		CNM 2201.01-74/5							
Terminal End		CNM 2201.01-0205							
Dissimilar									
			Nozzle to Safe End						
			RV Outlet Nozzle To Safe End At 22 Degrees (Loop B). Reactor Building Coordinate is 158 Degrees. Inspect volume and requirements per MRP-139. For responsibile individual, contact J. M. Shuping, Alloy 600 Engineer Nuclear Technical Services). Note: This weld location is also required to be inspected per ASME Section XI, Item Number B05.010.005 Outage 6 (EOC19). A vendor will have to be contracted to perform this inspection.						
C2.G7.2.0003	2RPV202-121CSE								
	Class 1 NC	E 8871-171-009	SI-UT-130	UT	SS-CS		2.625 / 29.000	SI-32-AX-01	G07.002.003
Circumferential		CNM 2201.01-74/5							
Terminal End		CNM 2201.01-0205							
Dissimilar									
			Nozzle to Safe End						
			RV Outlet Nozzle To Safe End At 338 Degrees (Loop C). Reactor Building Coordinate is 202 Degrees. Inspect volume and requirements per MRP-139. For responsibile individual, contact J. M. Shuping, Alloy 600 Engineer Nuclear Technical Services). Note: This weld location is also required to be inspected per ASME Section XI, Item Number B05.010.008 Outage 6 (EOC19). A vendor will have to be contracted to perform this inspection.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.G7.2.0004	2RPV202-121DSE								
	Class 1 NC	E 8871-171-009	SI-UT-130	UT	SS-CS		2.625 / 29.000	SI-32-AX-01	G07.002.00
Circumferential		CNM 2201.01-74/5							
Terminal End		CNM 2201.01-0205							
Dissimilar									
			Nozzle to Safe End						
			RV Outlet Nozzle To Safe End At 202 Degrees (Loop D). Reactor Building Coordinate is 338 Degrees. Inspect volume and requirements per MRP-139. For responsibile individual, contact J. M. Shuping, Alloy 600 Engineer Nuclear Technical Services). Note: This weld location is also required to be inspected per ASME Section XI, Item Number B05.010.007 Outage 6 (EOC19). A vendor will have to be contracted to perform this inspection.						
C2.G8.2.0001	2RPV202-121ASE								
	Class 1 NC	E 8871-171-009	NDE-68	VT-2	SS-CS		2.625 / 29.000		G08.002.001
Circumferential		CNM 2201.01-74/5							
Terminal End		CNM 2201.01-0205							
Dissimilar									
			Nozzle to Safe End						
			RV Outlet Nozzle To Safe End At 158 Degrees (Loop A). Reactor Building Coordinate is 22 Degrees. To Be Done With C2.B9.11.0001 Bare Metal Visual Examination by VT-2 qualified inspector per requirements of MRP-139. (For responsible individual, contact J. M. Shuping, Alloy 600 Engineer Nuclear Technical Services).						
C2.G8.2.0002	2RPV-202-121BSE								
	Class 1 NC	E 8871-171-009	NDE-68	VT-2	SS-CS		2.625 / 29.000		G08.002.00
Circumferential		CNM 2201.01-74/5							
Terminal End		CNM 2201.01-0205							
Dissimilar									
			Nozzle to Safe End						
			RV Outlet Nozzle To Safe End At 22 Degrees (Loop B). Reactor Building Coordinate is 158 Degrees. To Be Done With C2.B9.11.0005. Bare Metal Visual Examination by VT-2 qualified inspector per requirements of MRP-139. (For responsible individual, contact J. M. Shuping, Alloy 600 Engineer Nuclear Technical Services).						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.G8.2.0003	2RPV-202-121CSE								
	Class 1 NC	E 8871-171-009	NDE-68	VT-2	SS-CS		2.625 / 29.000		G08.002.00
Circumferential		CNM 2201.01-74/5							
Terminal End		CNM 2201.01-0205							
Dissimilar									
			Nozzle to Safe End						
			RV Outlet Nozzle To Safe End At 338 Degrees (Loop C). Reactor Building Coordinate is 202 Degrees. To Be Done With C2.B9.11.0009. Bare Metal Visual Examination by VT-2 qualified inspector per requirements of MRP-139. (For responsible individual, contact J. M. Shuping, Alloy 600 Engineer Nuclear Technical Services).					
C2.G8.2.0004	2RPV-202-121DSE								
	Class 1 NC	E 8871-171-009	NDE-68	VT-2	SS-CS		2.625 / 29.000		G08.002.00
Circumferential		CNM 2201.01-74/5							
Terminal End		CNM 2201.01-0205							
Dissimilar									
			Nozzle to Safe End						
			RV Outlet Nozzle To Safe End At 202 Degrees (Loop D). Reactor Building Coordinate is 338 Degrees. To Be Done With C2.B9.11.0013. Bare Metal Visual Examination by VT-2 qualified inspector per requirements of MRP-139. (For responsible individual, contact J. M. Shuping, Alloy 600 Engineer Nuclear Technical Services).					
Category B-G-2									
C2.B7.10.0001	2RPV-CETNA-74								
	Class 1 NC		NDE-62	VT-1	SS		See Comments		---
		CNM-2201.01-74 007							
		E-2005979-156-009 03							
			Core Exit Thermocouple Nozzle Assembly (CETNA #74). Perform VT-1 on Hold Down Nut (Item 4 Dwg. No. E-2005979-156-009 03) and Grayloc Studs/Nuts. For location of CETNA #74, see Core Exit Thermocouple Nozzle Disassembly and Reassembly Procedure MP/2/A/7150/115, Enclosure 13.1.					
C2.B7.10.0002	2RPV-CETNA-75								
	Class 1 NC		NDE-62	VT-1	SS		See Comments		---
		CNM-2201.01-74 007							
		E-2005979-156-009 03							
			Core Exit Thermocouple Nozzle Assembly (CETNA #75). Perform VT-1 on Hold Down Nut (Item 4 Dwg. No. E-2005979-156-009 03) and Grayloc Studs/Nuts. For location of CETNA #75, see Core Exit Thermocouple Nozzle Disassembly and Reassembly Procedure MP/2/A/7150/115, Enclosure 13.1.					

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-G-2									
C2.B7.10.0003	2RPV-CETNA-76 Class 1 NC	CNM-2201.01-74 007 E-2005979-156-009 03	NDE-62 Core Exit Thermocouple Nozzle Assembly (CETNA #76). Perform VT-1 on Hold Down Nut (Item 4 Dwg. No. E-2005979-156-009 03) and Grayloc Studs/Nuts. For location of CETNA #76, see Core Exit Thermocouple Nozzle Disassembly and Reassembly Procedure MP/2/A/7150/115, Enclosure 13.1.	VT-1	SS		See Comments		---
C2.B7.10.0004	2RPV-CETNA-77 Class 1 NC	CNM-2201.01-74 007 E-2005979-156-009 03	NDE-62 Core Exit Thermocouple Nozzle Assembly (CETNA #77). Perform VT-1 on Hold Down Nut (Item 4 Dwg. No. E-2005979-156-009 03) and Grayloc Studs/Nuts. For location of CETNA #77, see Core Exit Thermocouple Nozzle Disassembly and Reassembly Procedure MP/2/A/7150/115, Enclosure 13.1.	VT-1	SS		See Comments		---
C2.B7.10.0005	2RPV-CETNA-78 Class 1 NC	CNM-2201.01-74 007 E-2005979-156-009 03	NDE-62 Core Exit Thermocouple Nozzle Assembly (CETNA #77). Perform VT-1 on Hold Down Nut (Item 4 Dwg. No. E-2005979-156-009 03) and Grayloc Studs/Nuts. For location of CETNA #77, see Core Exit Thermocouple Nozzle Disassembly and Reassembly Procedure MP/2/A/7150/115, Enclosure 13.1.	VT-1	SS		See Comments		---
C2.B7.30.0003	2SGB-MW-W-X Class 1 NC	CNM 2201.01-59/1 CNM 2201.01-106/1	NDE-62 Steam Generator 2B Manway Bolting (16 Studs and Nuts). Primary Manway in W-X Quadrant (Inlet Side). Examine All Bolting Material.	VT-1	CS		0.000 / 1.880		B07.030.003
C2.B7.30.0004	2SGB-MW-Z-W Class 1 NC	CNM 2201.01-59/1 CNM 2201.01-106/1	NDE-62 Steam Generator 2B Manway Bolting (16 Studs and Nuts). Primary Manway in Z-W Quadrant (Outlet Side). Examine All Bolting Material.	VT-1	CS		0.000 / 1.880		B07.030.004

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-G-2									
C2.B7.50.0008	2NV224-MJ1 Class 1 NV	CN-2NV-224 CN-ISIN3-2554-1.5	NDE-62	VT-1	CS		5.750 / 1.000		B07.050.015
			Flange Bolting (4 Studs, 8 Nuts). Examine All Bolting Material.						
C2.B7.50.0009	2NV224-MJ2 Class 1 NV	CN-2NV-224 CN-ISIN3-2554-1.5	NDE-62	VT-1	CS		7.250 / 1.000		B07.050.016
			Flange Bolting (8 Studs, 16 Nuts). Examine All Bolting Material.						
C2.B7.50.0010	2NV323-MJ1 Class 1 NV	CN-2NV-323 CN-ISIN3-2554-1.5	NDE-62	VT-1	CS		5.750 / 1.000		B07.050.017
			Flange Bolting (4 Studs, 8 Nuts). Examine All Bolting Material.						
C2.B7.70.0002	2NC-27 Class 1 NC	CN-2NC-24 CNM-1205.06-41	NDE-62	VT-1	SS		3.725 / 0.880		B07.070.002
			4"X6" Valve (8 Studs, 8 Nuts). Examine All Studs And Nuts. Inspect Only One Valve In This Group Per Interval.						
Category B-J									
C2.B9.11.0042	2NC26-3 Class 1 NC	CN-2NC-26	NDE-35	PT	SS	160	0.719 / 6.000		B09.011.042, B09.011.042A
Circumferential		CN-ISIN3-2553-1.0							
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-J									
C2.B9.11.0042	2NC26-3								
	Class 1 NC	CN-2NC-26 CN-ISIN3-2553-1.0	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component PDI-UT-2-C	B09.011.042, B09.011.042A
Circumferential									
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0043	2NC26-4								
	Class 1 NC	CN-2NC-26	NDE-35	PT	SS	160	0.719 / 6.000		B09.011.043, B09.011.043A
Circumferential		CN-ISIN3-2553-1.0							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0043	2NC26-4								
	Class 1 NC	CN-2NC-26 CN-ISIN3-2553-1.0	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component PDI-UT-2-C	B09.011.043, B09.011.043A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0046	2NC33-14								
	Class 1 NC	CN-2NC-33	NDE-35	PT	SS	160	0.513 / 4.000		B09.011.046, B09.011.046A
Circumferential		CN-ISIN3-2553-1.1							
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-J									
C2.B9.11.0046	2NC33-14 Class 1 NC	CN-2NC-33 CN-ISIN3-2553-1.1	PDI-UT-2	UT	SS	160	0.513 / 4.000	Component PDI-UT-2-C	B09.011.046, B09.011.046A
Circumferential			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0048	2NC33-2 Class 1 NC	CN-2NC-33 CN-ISIN3-2553-1.1	NDE-35	PT	SS	160	0.531 / 4.000		B09.011.048, B09.011.048A
Circumferential			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0048	2NC33-2 Class 1 NC	CN-2NC-33 CN-ISIN3-2553-1.1	PDI-UT-2	UT	SS	160	0.531 / 4.000	Component PDI-UT-2-C	B09.011.048, B09.011.048A
Circumferential			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0049	2NC42-11 Class 1 NC	CN-2NC-42 CN-ISIN3-2553-1.0	NDE-35	PT	SS	140	1.125 / 12.000		B09.011.049, B09.011.049A
Circumferential			Tee to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-J									
C2.B9.11.0049	2NC42-11								
	Class 1 NC	CN-2NC-42	PDI-UT-2	UT	SS	140	1.125 / 12.000	Component	B09.011.049,
		CN-ISIN3-2553-1.0						PDI-UT-2-C	B09.011.049A
Circumferential									
			Tee to Elbow						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0050	2NC42-12								
	Class 1 NC	CN-2NC-42	NDE-35	PT	SS	140	1.125 / 12.000		B09.011.050,
									B09.011.050A
Circumferential		CN-ISIN3-2553-1.0							
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0050	2NC42-12								
	Class 1 NC	CN-2NC-42	PDI-UT-2	UT	SS	140	1.125 / 12.000	Component	B09.011.050,
		CN-ISIN3-2553-1.0						PDI-UT-2-C	B09.011.050A
Circumferential									
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0074	2ND67-11								
	Class 1 ND	CN-2ND-67	NDE-35	PT	SS	140	1.125 / 12.000		B09.011.105,
									B09.011.105A
Circumferential		CN-ISIN3-2561-1.0							
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-J									
C2.B9.11.0074 Circumferential	2ND67-11 Class 1 ND	CN-2ND-67 CN-ISIN3-2561-1.0	PDI-UT-2 Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.	UT	SS	140	1.125 / 12.000	Component PDI-UT-2-C	B09.011.105, B09.011.105A
C2.B9.11.0075 Circumferential	2ND67-8 Class 1 ND	CN-2ND-67 CN-ISIN3-2561-1.0	NDE-35 Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.	PT	SS	140	1.125 / 12.000		B09.011.106, B09.011.106A
C2.B9.11.0075 Circumferential	2ND67-8 Class 1 ND	CN-2ND-67 CN-ISIN3-2561-1.0	PDI-UT-2 Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.	UT	SS	140	1.125 / 12.000	Component PDI-UT-2-C	B09.011.106, B09.011.106A
C2.B9.11.0076 Circumferential	2ND67-9 Class 1 ND	CN-2ND-67 CN-ISIN3-2561-1.0	NDE-35 Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.	PT	SS	140	1.125 / 12.000		B09.011.107, B09.011.107A

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-J									
C2.B9.11.0076	2ND67-9 Class 1 ND	CN-2ND-67 CN-ISIN3-2561-1.0	PDI-UT-2	UT	SS	140	1.125 / 12.000	Component PDI-UT-2-C	B09.011.107, B09.011.107A
Circumferential			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0103	2NI63-3 Class 1 NI	CN-2NI-63	NDE-35	PT	SS	140	1.000 / 10.000		B09.011.177, B09.011.177A
Circumferential		CN-ISIN3-2562-1.1	Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0103	2NI63-3 Class 1 NI	CN-2NI-63 CN-ISIN3-2562-1.1	PDI-UT-2	UT	SS	140	1.000 / 10.000	Component PDI-UT-2-C	B09.011.177, B09.011.177A
Circumferential			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0105	2NI70-1 Class 1 NI	CN-2NI-70	NDE-35	PT	SS	160	0.719 / 6.000		B09.011.179, B09.011.179A
Circumferential		CN-ISIN3-2562-1.3	Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-J									
C2.B9.11.0105	2NI70-1 Class 1 NI	CN-2NI-70 CN-ISIN3-2562-1.3	NDE-600	UT	SS	160	0.719 / 6.000	Component PDI-UT-2-C	B09.011.179, B09.011.179A
Circumferential			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0106	2NI70-4 Class 1 NI	CN-2NI-70 CN-ISIN3-2562-1.3	NDE-35	PT	SS	160	0.719 / 6.000		B09.011.180, B09.011.180A
Circumferential			Valve 2NI175 to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0106	2NI70-4 Class 1 NI	CN-2NI-70 CN-ISIN3-2562-1.3	NDE-600	UT	SS	160	0.719 / 6.000	Component PDI-UT-2-C	B09.011.180, B09.011.180A
Circumferential			Valve 2NI175 to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0111	2NI75-6 Class 1 NI	CN-2NI-75 CN-ISIN3-2562-1.3	NDE-35	PT	SS	160	0.719 / 6.000		B09.011.185, B09.011.185A
Circumferential			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-J									
C2.B9.11.0111	2NI75-6								
	Class 1 NI	CN-2NI-75	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component	B09.011.185,
		CN-ISIN3-2562-1.3						PDI-UT-2-C	B09.011.185A
Circumferential									
			Pipe to Elbow						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0112	2NI75-8								
	Class 1 NI	CN-2NI-75	NDE-35	PT	SS	160	0.719 / 6.000		B09.011.186,
									B09.011.186A
Circumferential		CN-ISIN3-2562-1.3							
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.11.0112	2NI75-8								
	Class 1 NI	CN-2NI-75	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component	B09.011.186,
		CN-ISIN3-2562-1.3						PDI-UT-2-C	B09.011.186A
Circumferential									
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.B9.21.0028	2NV119-1								
	Class 1 NV	CN-2NV-119	NDE-35	PT	SS	160	0.438 / 3.000		B09.021.101
Circumferential		CN-ISIN3-2554-1.0							
Stress Weld									
			Valve 2NV040 to Pipe						
C2.B9.21.0029	2NV119-2								
	Class 1 NV	CN-2NV-119	NDE-35	PT	SS	160	0.438 / 3.000		B09.021.102
Circumferential		CN-ISIN3-2554-1.0							
Stress Weld									
			Pipe to Valve 2NV041						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-J									
C2.B9.21.0032	2NV209-RCP2A-1								
	Class 1 NV	CN-2NV-209	NDE-35	PT	SS	80	0.200 / 1.500		B09.021.10
Circumferential		CNM 1201.01-151							
		CNM 1201.01-0115 002							
			Pipe to Flange						
			Pipe to RCP2A Weld Neck Flange. Reference Drawing 925B950 in Catawba Drawing Number CNM 1201.01-151, Stress Analysis of the Casing, Main Flange Bolts, And The Thermal Barrier of The 93A Shaft Seal Pump. For additional information, see Drawing Number CNM 1201.01-0180 001.						
Category C-A									
C2.C1.10.0001	2SGB-03-04A								
	Class 2 NC	CN-ISIN3-2553-1.0	NDE-640	UT	CS		3.060 / 0.000	5135230	C01.010.001
Circumferential		CNM 2201.01-59							
		CNM 2201.01-102							
			Stub Barrel to Lower Shell						
			Steam Generator 2B Stub Barrel Pc.3 To Lower Shell Pc.4A.						
C2.C1.10.0001	2SGB-03-04A								
	Class 2 NC	CN-ISIN3-2553-1.0	NDE-820	UT	CS		3.060 / 0.000	5135230	C01.010.001
Circumferential		CNM 2201.01-59							
		CNM 2201.01-102							
			Stub Barrel to Lower Shell						
			Steam Generator 2B Stub Barrel Pc.3 To Lower Shell Pc.4A.						
C2.C1.10.0002	2SGC-04B-05								
	Class 2 NC	CN-ISIN3-2553-1.0	NDE-820	UT	CS		3.060 / 0.000	5135230	C01.010.002
Circumferential		CNM 2201.01-59							
		CNM 2201.01.102							
			Lower Shell to Transition Cone						
			Steam Generator 2C Lower Shell Pc.4B To Transition Cone Pc.5.						
C2.C1.10.0002	2SGC-04B-05								
	Class 2 NC	CN-ISIN3-2553-1.0	NDE-640	UT	CS		3.060 / 0.000	5135230	C01.010.002
Circumferential		CNM 2201.01-59							
		CNM 2201.01.102							
			Lower Shell to Transition Cone						
			Steam Generator 2C Lower Shell Pc.4B To Transition Cone Pc.5.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
C2.C1.10.0003	2SGD-05-06A								
	Class 2 NC	CN-ISIN3-2553-1.0	NDE-640	UT	CS		4.000 / 0.000	50366	C01.010.003
Circumferential		CNM 2201.01-59							
		CNM 2201.01-102							
			Transition Cone to Upper Shell						
			Steam Generator 2D Transition Cone Pc.5 To Upper Shell Pc.6A.						
C2.C1.10.0003	2SGD-05-06A								
	Class 2 NC	CN-ISIN3-2553-1.0	NDE-820	UT	CS		4.000 / 0.000	50366	C01.010.003
Circumferential		CNM 2201.01-59							
		CNM 2201.01-102							
			Transition Cone to Upper Shell						
			Steam Generator 2D Transition Cone Pc.5 To Upper Shell Pc.6A.						
C2.C1.10.0007	2ARHRHX-5-9								
	Class 2 ND	CN-ISIN3-2561-1.0	NDE-68	VT-2	SS		0.875 / 44.000		C01.010.007
Circumferential		CNM 1201.06-38							
			Shell to Flange						
			Residual Heat Removal Heat Exchanger 2A Shell Pc.5 To Flange Pc.9.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2A Shell Pc.5 To Flange Pc.9. is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
C2.C1.10.0011	2BRHRHX-5-9								
	Class 2 ND	CN-ISIN3-2561-1.1	NDE-68	VT-2			0.875 / 44.000		C01.010
Circumferential		CNM 1201.06-38							
			Residual Heat Removal Heat Exchanger 2B Shell Pc.5 To Flange Pc.9.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2B Shell Pc.5 To Flange Pc.9. is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.1 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						
C2.C1.20.0001	2SGD-06B-07								
	Class 2 NC	CN-ISIN3-2553-1.0	NDE-820	UT	CS		3.890 / 0.000	50366	C01.020.001
Circumferential		CNM 2201.01-59							
		CNM 2201.01-102							
			Upper Shell to Upper Head						
			Steam Generator 2D Upper Shell Pc.6B To Upper Head Pc.7. Depending upon the examiner's qualifications, Procedure PDI-UT-6 may be used in lieu of Procedure NDE-620.						
C2.C1.20.0001	2SGD-06B-07								
	Class 2 NC	CN-ISIN3-2553-1.0	NDE-640	UT	CS		3.890 / 0.000	50366	C01.020.001
Circumferential		CNM 2201.01-59							
		CNM 2201.01-102							
			Upper Shell to Upper Head						
			Steam Generator 2D Upper Shell Pc.6B To Upper Head Pc.7. Depending upon the examiner's qualifications, Procedure PDI-UT-6 may be used in lieu of Procedure NDE-620.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
C2.C1.20.0004	2REGHX-SH1-HD1								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.020.00
Circumferential		CNM 1201.06-31							
		CNM 1201.06-83							
			Shell to Head						
			Regenerative Heat Exchanger (Shell 1). Shell (1) Pc.3 to Head (1) Pc.5.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 1). Shell (1) Pc.3 to Head (1) Pc.5 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						
C2.C1.20.0005	2REGHX-SH1-HD2								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.020.00
Circumferential		CNM 1201.06-83							
		CNM 1201.06-31							
			Shell to Head						
			Regenerative Heat Exchanger (Shell 1). Shell (1) Pc.2 to Head (2) Pc.5.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 1). Shell (1) Pc.2 to Head (2) Pc.5 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
C2.C1.20.0006	2REGHX-SH2-HD1								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.020.00€
Circumferential		CNM 1201.06-83							
		CNM 1201.06-31							
			Shell to Head						
			Regenerative Heat Exchanger (Shell 2). Shell (2) Pc.3 to Head (1) Pc.5.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 2). Shell (2) Pc.3 to Head (1) Pc.5 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						
C2.C1.20.0007	2REGHX-SH2-HD2								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.020.007
Circumferential		CNM 1201.06-83							
		CNM 1201.06-31							
			Shell to Head						
			Regenerative Heat Exchanger (Shell 2). Shell (2) Pc.2 to Head (2) Pc.5.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 2). Shell (2) Pc.2 to Head (2) Pc.5 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category C-A									
C2.C1.20.0008	2REGHX-SH3-HD1								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.020.00E
Circumferential		CNM 1201.06-83							
		CNM 1201.06-31							

Shell to Head

Regenerative Heat Exchanger (Shell 3). Shell (3) Pc.3 to Head (1) Pc.5.

Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 3). Shell (3) Pc.3 to Head (1) Pc.5 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)

If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.

This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.

C2.C1.20.0009	2REGHX-SH3-HD2								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.020.00S
Circumferential		CNM 1201.06-83							
		CNM 1201.06-31							

Shell to Head

Regenerative Heat Exchanger (Shell 3). Shell (3) Pc.2 to Head (2) Pc.5.

Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 3). Shell (3) Pc.2 to Head (2) Pc.5 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)

If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.

This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
C2.C1.20.0013	2ARHRHX-5-6								
	Class 2 ND	CN-ISIN3-2561-1.0	NDE-68	VT-2	SS		0.770 / 44.000		C01.020.013
Circumferential		CNM 1201.06-38							

Shell to Lower Head

Residual Heat Removal Heat Exchanger 2A Shell Pc.5 to Lower Head Pc.6.

Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2A Shell Pc.5 to Lower Head Pc.6 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)

If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.

This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.1 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.

C2.C1.20.0017	2BRHRHX-5-6								
	Class 2 ND	CN-ISIN3-2561-1.1	NDE-68	VT-2			0.770 / 44.000		C01.020
Circumferential		CNM 1201.06-38							

Residual Heat Removal Heat Exchanger 2B Shell Pc.5 to Lower Head Pc.6.

Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2B Shell Pc.5 to Lower Head Pc.6 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)

If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.

This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.1 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
C2.C1.30.0001	2SGA-02-03								
	Class 2 NC	CN-ISIN3-2553-1.0	NDE-820	UT	CS		3.310 / 0.000	5135230	C01.030.001
Circumferential		CNM 2201.01-113							
			Tubesheet to Stub Barrell						
			Steam Generator 2A Tubesheet Pc.2 to Stub Barrel Pc.3.						
C2.C1.30.0001	2SGA-02-03								
	Class 2 NC	CN-ISIN3-2553-1.0	NDE-640	UT	CS		3.310 / 0.000	5135230	C01.030.001
Circumferential		CNM 2201.01-113							
			Tubesheet to Stub Barrell						
			Steam Generator 2A Tubesheet Pc.2 to Stub Barrel Pc.3.						
C2.C1.30.0002	2REGHX-SH1-TS								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.002
Circumferential		CNM 1201.06-31							
		CNM 1201.06-83							
			Shell to Tubesheet						
			Regenerative Heat Exchanger (Shell 1). Shell (1) Pc.3 to Tubesheet Pc.4.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 1). Shell (1) Pc.3 to Tubesheet Pc.4 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
			Description / Comments						
Category C-A									
C2.C1.30.0003	2REGHX-SH2-TS								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.00
Circumferential		CNM 1201.06-83							
		CNM 1201.06-31							
			Shell to Tubesheet						
			Regenerative Heat Exchanger (Shell 2). Shell (2) Pc.3 to Tubesheet Pc.4.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 2). Shell (2) Pc.3 to Tubesheet Pc.4 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						
C2.C1.30.0004	2REGHX-SH3-TS								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.00
Circumferential		CNM 1201.06-83							
		CNM 1201.06-31							
			Shell to Tubesheet						
			Regenerative Heat Exchanger (Shell 3). Shell (3) Pc.3 to Tubesheet Pc.4.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 3). Shell (3) Pc.3 to Tubesheet Pc.4 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
C2.C1.30.0005	2REGHX-TS-SH1								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.005
Circumferential		CNM 1201.06-83 CNM 1201.06-31							
			Tubesheet to Shell Regenerative Heat Exchanger (Shell 1). Tubesheet Pc.4 to Shell (1) Pc.2. Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 1). Tubesheet Pc.4 to Shell (1) Pc.2 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252) If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected. This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						
C2.C1.30.0006	2REGHX-TS-SH2								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.006
Circumferential		CNM 1201.06-83 CNM 1201.06-31							
			Tubesheet to Shell Regenerative Heat Exchanger (Shell 2). Tubesheet Pc.4 to Shell (2) Pc.2 Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 2). Tubesheet Pc.4 to Shell (2) Pc.2 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252) If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected. This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
C2.C1.30.0007	2REGHX-TS-SH3								
	Class 2 NV	CN-ISIN3-2554-1.0	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.007
Circumferential		CNM 1201.06-83							
		CNM 1201.06-31							
			Tubesheet to Shell						
			Regenerative Heat Exchanger (Shell 3). Tubesheet Pc.4 to Shell (3) Pc.2.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Regenerative Heat Exchanger (Shell 3). Tubesheet Pc.4 to Shell (3) Pc.2 is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2554-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						
Category C-B									
C2.C2.21.0004	2ARHRHX-5-A								
	Class 2 ND	CNM 1201.06-38	NDE-68	VT-2	SS		0.375 / 14.000		C02.021.004, C02.021.004A
Circumferential		CN-ISIN3-2561-1.0							
			Nozzle to Shell						
			Residual Heat Removal Heat Exchanger 2A Inlet Nozzle Pc.5 To Shell Pc.A.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2A Inlet Nozzle Pc.5 To Shell Pc.A. is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-B									
C2.C2.21.0005	2ARHRHX-5-B								
	Class 2 ND	CNM 1201.06-38	NDE-68	VT-2	SS		0.375 / 14.000		C02.021.005, C02.021.005A
Circumferential		CN-ISIN3-2561-1.1							

Nozzle to Shell

Residual Heat Removal Heat Exchanger 2A Outlet Nozzle Pc.5 To Shell Pc.B.

Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2A Outlet Nozzle Pc.5 To Shell Pc.B is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)

If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.

This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.

C2.C2.21.0012	2RHRHXB-5-A								
	Class 2 ND	CNM 1201.06-38	NDE-68	VT-2			0.375 / 14.000		C02.021
Circumferential		CN-ISIN3-2561-1.1							

Residual Heat Removal Heat Exchanger 2B Inlet Nozzle Pc.5 To Shell Pc.A.

Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2B Inlet Nozzle Pc.5 To Shell Pc.A is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)

If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.

This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.1 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-B									
C2.C2.21.0015	2BRHRHX-5-B								
	Class 2 ND	CNM 1201.06-38	NDE-68	VT-2			0.375 / 14.000		C02.021
Circumferential		CN-ISIN3-2561-1.1							
			Residual Heat Removal Heat Exchanger 2B Outlet Nozzle Pc.5 To Shell Pc.B.						
			Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2B Outlet Nozzle Pc.5 To Shell Pc.B is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)						
			If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.						
			This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.1 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						
Category C-C									
C2.C3.20.0010	2-R-NS-1219								
	Class 2 NS	CN-2491-NS001	NDE-35	PT	SS		0.750 / 8.000		C03.020.051
Rigid Restraint		CN-ISIN3-2563-1.0							
		CN-1678-14							
			Inpingement Ring must be removed						
C2.C3.20.0013	2-A-NV-3684								
	Class 2 NV	CN-2492-NV150	NDE-35	PT	SS		0.438 / 3.000		C03.020.062
Rigid Restraint		CN-ISIN3-2554-1.1							
C2.C3.30.0001	2RHRPA-LUGS								
	Class 2 ND	CN-ISIN3-2561-1.0	NDE-35	PT	SS		0.000 / 0.000		C03.030.001
		CNM 1201.05-289							
		CNM 1201.05-0318							
			Lugs to Casing						
			Residual Heat Removal Pump 2A Lugs to Pump Casing. (3 Support Lugs)						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0013	2CA156-30 Class 2 CA	CN-2CA-156	NDE-35	PT	SS	80	0.432 / 6.000		C05.011.013, C05.011.013A
Circumferential		CN-ISIN3-2592-1.1							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0013	2CA156-30 Class 2 CA	CN-2CA-156 CN-ISIN3-2592-1.1	PDI-UT-2	UT	SS	80	0.432 / 6.000	Component PDI-UT-2-C	C05.011.013, C05.011.013A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0014	2CA156-31 Class 2 CA	CN-2CA-156	NDE-35	PT	SS	80	0.432 / 6.000		C05.011.014, C05.011.014A
Circumferential		CN-ISIN3-2592-1.1							
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0014	2CA156-31 Class 2 CA	CN-2CA-156 CN-ISIN3-2592-1.1	PDI-UT-2	UT	SS	80	0.432 / 6.000	Component PDI-UT-2-C	C05.011.014, C05.011.014A
Circumferential									
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0015	2CA156-32 Class 2 CA	CN-2CA-156	NDE-35	PT	SS	80	0.432 / 6.000		C05.011.015, C05.011.015A
Circumferential		CN-ISIN3-2592-1.1							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0015	2CA156-32 Class 2 CA	CN-2CA-156 CN-ISIN3-2592-1.1	PDI-UT-2	UT	SS	80	0.432 / 6.000	Component PDI-UT-2-C	C05.011.015, C05.011.015A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0035	2ND10-8 Class 2 ND	CN-2ND-10	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.151, C05.011.151A
Circumferential		CN-ISIN3-2561-1.0							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0035	2ND10-8 Class 2 ND	CN-2ND-10 CN-ISIN3-2561-1.0	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component PDI-UT-2-C	C05.011.151, C05.011.151A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0036	2ND10-9 Class 2 ND	CN-2ND-10	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.152, C05.011.152A
Circumferential		CN-ISIN3-2561-1.0							
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0036	2ND10-9 Class 2 ND	CN-2ND-10 CN-ISIN3-2561-1.0	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component PDI-UT-2-C	C05.011.152, C05.011.152A
Circumferential									
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0037	2ND15-17 Class 2 ND	CN-2ND-15	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.153, C05.011.153A
Circumferential		CN-ISIN3-2561-1.1							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0037	2ND15-17 Class 2 ND	CN-2ND-15 CN-ISIN3-2561-1.1	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component PDI-UT-2-C	C05.011.153, C05.011.153A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0038	2ND15-18								
	Class 2 ND	CN-2ND-15	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.154, C05.011.154A
Circumferential		CN-ISIN3-2561-1.1							
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0038	2ND15-18								
	Class 2 ND	CN-2ND-15 CN-ISIN3-2561-1.1	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component PDI-UT-2-C	C05.011.154, C05.011.154A
Circumferential									
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0039	2ND16-2								
	Class 2 ND	CN-2ND-16	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.155, C05.011.155A
Circumferential		CN-ISIN3-2561-1.1							
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0039	2ND16-2								
	Class 2 ND	CN-2ND-16 CN-ISIN3-2561-1.1	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component PDI-UT-2-C	C05.011.155, C05.011.155A
Circumferential									
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0040	2ND16-3 Class 2 ND	CN-2ND-16 CN-ISIN3-2561-1.1	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.156, C05.011.156A
Circumferential			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0040	2ND16-3 Class 2 ND	CN-2ND-16 CN-ISIN3-2561-1.1	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component PDI-UT-2-C	C05.011.156, C05.011.156A
Circumferential			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0041	2ND16-6 Class 2 ND	CN-2ND-16 CN-ISIN3-2561-1.1	NDE-35	PT	SS	40	0.438 / 14.000		C05.011.157, C05.011.157A
Circumferential			14X12 Reducer to Tee Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0041	2ND16-6 Class 2 ND	CN-2ND-16 CN-ISIN3-2561-1.1	PDI-UT-2	UT	SS	40	0.438 / 14.000	Component PDI-UT-2-C	C05.011.157, C05.011.157A
Circumferential			14X12 Reducer to Tee Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0042	2ND16-7 Class 2 ND	CN-2ND-16	NDE-35	PT	SS	40	0.438 / 14.000		C05.011.158, C05.011.158A
Circumferential		CN-ISIN3-2561-1.1							
			Tee to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0042	2ND16-7 Class 2 ND	CN-2ND-16 CN-ISIN3-2561-1.1	PDI-UT-2	UT	SS	40	0.438 / 14.000	Component PDI-UT-2-C	C05.011.158, C05.011.158A
Circumferential									
			Tee to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0043	2ND18-2 Class 2 ND	CN-2ND-18	NDE-35	PT	SS	40	0.438 / 14.000		C05.011.159, C05.011.159A
Circumferential		CN-ISIN3-2561-1.1							
			Pipe to Elbow						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0043	2ND18-2 Class 2 ND	CN-2ND-18 CN-ISIN3-2561-1.1	PDI-UT-2	UT	SS	40	0.438 / 14.000	Component PDI-UT-2-C	C05.011.159, C05.011.159A
Circumferential									
			Pipe to Elbow						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0044	2ND18-8 Class 2 ND	CN-2ND-18	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.160, C05.011.160A
Circumferential		CN-ISIN3-2561-1.1							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0044	2ND18-8 Class 2 ND	CN-2ND-18 CN-ISIN3-2561-1.1	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component PDI-UT-2-C	C05.011.160, C05.011.160A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0045	2ND18-9 Class 2 ND	CN-2ND-18	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.161, C05.011.161A
Circumferential		CN-ISIN3-2561-1.1							
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0045	2ND18-9 Class 2 ND	CN-2ND-18 CN-ISIN3-2561-1.1	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component PDI-UT-2-C	C05.011.161, C05.011.161A
Circumferential									
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0047	2ND19-9 Class 2 ND	CN-2ND-19	NDE-35	PT	SS	40	0.438 / 14.000		C05.011.163, C05.011.163A
Circumferential		CN-ISIN3-2561-1.1							
			Flange to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0047	2ND19-9 Class 2 ND	CN-2ND-19 CN-ISIN3-2561-1.1	PDI-UT-2	UT	SS	40	0.438 / 14.000	Component PDI-UT-2-C	C05.011.163, C05.011.163A
Circumferential									
			Flange to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0054	2ND21-19 Class 2 ND	CN-2ND-21	NDE-68	VT-2	SS	40	0.438 / 14.000		C05.011.170, C05.011.170A
Circumferential Terminal End		CN-ISIN3-2561-1.1							
			14X8 Reducer to Residual HX 2B Residual Heat Removal Heat Exchanger 2B. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used. Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2B is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252) If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected. This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.1 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0064	2ND32-1 Class 2 ND	CN-2ND-32	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.180, C05.011.180A
Circumferential		CN-ISIN3-2561-1.0							
			12X4 Reducing Tee to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0064	2ND32-1 Class 2 ND	CN-2ND-32 CN-ISIN3-2561-1.0	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component PDI-UT-2-C	C05.011.180, C05.011.180A
Circumferential									
			12X4 Reducing Tee to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0110	2NI85-2 Class 2 NI	CN-2NI-85	NDE-35	PT	SS	160	0.719 / 6.000		C05.011.325, C05.011.325A
Circumferential		CN-ISIN3-2562-1.3							
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0110	2NI85-2 Class 2 NI	CN-2NI-85 CN-ISIN3-2562-1.3	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component PDI-UT-2-C	C05.011.325, C05.011.325A
Circumferential									
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0111	2NI85-3								
	Class 2 NI	CN-2NI-85	NDE-35	PT	SS	160	0.719 / 6.000		C05.011.326, C05.011.326A
Circumferential		CN-ISIN3-2562-1.3							
			Pipe to Elbow						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0111	2NI85-3								
	Class 2 NI	CN-2NI-85 CN-ISIN3-2562-1.3	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component PDI-UT-2-C	C05.011.326, C05.011.326A
Circumferential									
			Pipe to Elbow						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0112	2NI85-5								
	Class 2 NI	CN-2NI-85	NDE-35	PT	SS	160	0.719 / 6.000		C05.011.327, C05.011.327A
Circumferential		CN-ISIN3-2562-1.3							
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0112	2NI85-5								
	Class 2 NI	CN-2NI-85 CN-ISIN3-2562-1.3	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component PDI-UT-2-C	C05.011.327, C05.011.327A
Circumferential									
			Elbow to Pipe						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0113	2NI85-6 Class 2 NI	CN-2NI-85	NDE-35	PT	SS	160	0.719 / 6.000		C05.011.328, C05.011.328A
Circumferential		CN-ISIN3-2562-1.3	Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0113	2NI85-6 Class 2 NI	CN-2NI-85 CN-ISIN3-2562-1.3	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component PDI-UT-2-C	C05.011.328, C05.011.328A
Circumferential			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0114	2NI85-7 Class 2 NI	CN-2NI-85	NDE-35	PT	SS	160	0.719 / 6.000		C05.011.329, C05.011.329A
Circumferential		CN-ISIN3-2562-1.3	Elbow to Pipe *Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is* used , then the calibration block listed shall be used.						
C2.C5.11.0114	2NI85-7 Class 2 NI	CN-2NI-85 CN-ISIN3-2562-1.3	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component PDI-UT-2-C	C05.011.329, C05.011.329A
Circumferential			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.0115	2NI85-8								
	Class 2 NI	CN-2NI-85	NDE-35	PT	SS	160	0.719 / 6.000		C05.011.330, C05.011.330A
Circumferential		CN-ISIN3-2562-1.3							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.0115	2NI85-8								
	Class 2 NI	CN-2NI-85 CN-ISIN3-2562-1.3	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component PDI-UT-2-C	C05.011.330, C05.011.330A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.11.1126	2ND34-17								
	Class 2 ND	CN-2ND-34	NDE-68	VT-2			0.322 / 14.000		C05.011
Circumferential		CN-ISIN3-2561-1.1							
			Residual Heat Removal Heat Exchanger 2B Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2B is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252) If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected. This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.1 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.11.1654	2ND25-19								
	Class 2 ND	CN-2ND-25	NDE-68	VT-2			0.438 / 14.000		C05.011
Circumferential		CN-ISIN3-2561-1.0							

Residual Heat Removal Heat Exchanger 2A

Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2A is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)

If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.

This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.

C2.C5.11.1755	2ND44-20								
	Class 2 ND	CN-2ND-44	NDE-68	VT-2			0.250 / 8.000		C05.011
Circumferential		CN-ISIN3-2561-1.0							

Residual Heat Removal Heat Exchanger 2A

Code Case N-706 has been incorporated for use during the Third Interval which allows an alternative exam (VT-2) for this weld. The Residual Heat Removal Heat Exchanger 2A is inside the Class 2 Pressure Test Boundary and will receive a VT-2 exam once each period. For additional information, reference PIP#G-08-00480 and File No. CN-1212.03 (Record Retention Code # 000252)

If evidence of leakage is detected for this item during system leakage test, the NDE Plan Manager will be notified of leakage so evaluation can be performed. Use of this code case shall be discontinued for the heat exchangerand others of the same design or configuration if leakage has been detected.

This exam will be performed under the Pressure test Program. Reference Drawing Number CN-ISIL3-2561-1.0 and Plan Addendum C2-PT-031. A VT-2 visual exam will be performed for this weld.

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.21.0015	2NI200-2								
	Class 2 NI	CN-2NI-200	NDE-35	PT	SS	80	0.218 / 2.000		C05.021.111, C05.021.111A
Circumferential		CN-ISIN3-2562-1.2							
			Pipe to 3X2 Reducer						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0015	2NI200-2								
	Class 2 NI	CN-2NI-200 CN-ISIN3-2562-1.2	PDI-UT-2	UT	SS	80	0.218 / 2.000	Component PDI-UT-2-C	C05.021.111, C05.021.111A
Circumferential									
			Pipe to 3X2 Reducer						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0016	2NI200-3								
	Class 2 NI	CN-2NI-200	NDE-35	PT	SS	160	0.300 / 3.000		C05.021.112, C05.021.112A
Circumferential		CN-ISIN3-2562-1.2							
			3X2 Reducer to Flow Orifice						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0016	2NI200-3								
	Class 2 NI	CN-2NI-200 CN-ISIN3-2562-1.2	PDI-UT-2	UT	SS	160	0.300 / 3.000	Component PDI-UT-2-C	C05.021.112, C05.021.112A
Circumferential									
			3X2 Reducer to Flow Orifice						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID *Class / System*	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.21.0017	2NI23-4 Class 2 NI	CN-2NI-23	NDE-35	PT	SS	80	0.337 / 4.000		C05.021.113, C05.021.113A
Circumferential		CN-ISIN3-2562-1.2							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0017	2NI23-4 Class 2 NI	CN-2NI-23 CN-ISIN3-2562-1.2	PDI-UT-2	UT	SS	80	0.337 / 4.000	Component PDI-UT-2-C	C05.021.113, C05.021.113A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0018	2NI23-5 Class 2 NI	CN-2NI-23	NDE-35	PT	SS	80	0.337 / 4.000		C05.021.114, C05.021.114A
Circumferential		CN-ISIN3-2562-1.2							
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0018	2NI23-5 Class 2 NI	CN-2NI-23 CN-ISIN3-2562-1.2	PDI-UT-2	UT	SS	80	0.337 / 4.000	Component PDI-UT-2-C	C05.021.114, C05.021.114A
Circumferential									
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.21.0019	2NI24-1 Class 2 NI	CN-2NI-24	NDE-35	PT	SS	80	0.337 / 4.000		C05.021.115, C05.021.115A
Circumferential		CN-ISIN3-2562-1.2							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0019	2NI24-1 Class 2 NI	CN-2NI-24 CN-ISIN3-2562-1.2	PDI-UT-2	UT	SS	80	0.337 / 4.000	Component PDI-UT-2-C	C05.021.115, C05.021.115A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0020	2NI24-10 Class 2 NI	CN-2NI-24	NDE-35	PT	SS	80	0.337 / 4.000		C05.021.116, C05.021.116A
Circumferential		CN-ISIN3-2562-1.2							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0020	2NI24-10 Class 2 NI	CN-2NI-24 CN-ISIN3-2562-1.2	PDI-UT-2	UT	SS	80	0.337 / 4.000	Component PDI-UT-2-C	C05.021.116, C05.021.116A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.21.0021	2NI24-11 Class 2 NI	CN-2NI-24	NDE-35	PT	SS	80	0.337 / 4.000		C05.021.117, C05.021.117A
Circumferential		CN-ISIN3-2562-1.2							
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0021	2NI24-11 Class 2 NI	CN-2NI-24 CN-ISIN3-2562-1.2	PDI-UT-2	UT	SS	80	0.337 / 4.000	Component PDI-UT-2-C	C05.021.117, C05.021.117A
Circumferential									
			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0022	2NI24-18 Class 2 NI	CN-2NI-24	NDE-35	PT	SS	80	0.337 / 4.000		C05.021.118, C05.021.118A
Circumferential		CN-ISIN3-2562-1.2							
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0022	2NI24-18 Class 2 NI	CN-2NI-24 CN-ISIN3-2562-1.2	PDI-UT-2	UT	SS	80	0.337 / 4.000	Component PDI-UT-2-C	C05.021.118, C05.021.118A
Circumferential									
			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.21.0023	2NI255-20								
	Class 2 NI	CN-2NI-255	NDE-35	PT	SS	80	0.218 / 2.000		C05.021.119, C05.021.119A
Circumferential		CN-ISIN3-2562-1.2							
			Pipe to 3X2 Reducer						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0023	2NI255-20								
	Class 2 NI	CN-2NI-255	PDI-UT-2	UT	SS	80	0.218 / 2.000	Component	C05.021.119, C05.021.119A
		CN-ISIN3-2562-1.2						PDI-UT-2-C	
Circumferential									
			Pipe to 3X2 Reducer						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0024	2NI255-5								
	Class 2 NI	CN-2NI-255	NDE-35	PT	SS	160	0.438 / 3.000		C05.021.120, C05.021.120A
Circumferential		CN-ISIN3-2562-1.2							
			3X2 Reducer to Flow Orifice						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0024	2NI255-5								
	Class 2 NI	CN-2NI-255	PDI-UT-2	UT	SS	160	0.438 / 3.000	Component	C05.021.120, C05.021.120A
		CN-ISIN3-2562-1.2						PDI-UT-2-C	
Circumferential									
			3X2 Reducer to Flow Orifice						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.21.0060	2NV181-1								
	Class 2 NV	CN-2NV-181	NDE-35	PT	SS	40	0.237 / 4.000		C05.021.226, C05.021.226A
Circumferential		CN-ISIN3-2554-1.6							
Terminal End									
			Nozzle to Pipe						
			Seal Water Heat Exchanger. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0060	2NV181-1								
	Class 2 NV	CN-2NV-181	PDI-UT-2	UT	SS	40	0.237 / 4.000	Component	C05.021.226,
		CN-ISIN3-2554-1.6						PDI-UT-2-C	C05.021.226A
Circumferential									
Terminal End									
			Nozzle to Pipe						
			Seal Water Heat Exchanger. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0061	2NV181-14								
	Class 2 NV	CN-2NV-181	NDE-35	PT	SS	40	0.237 / 4.000		C05.021.227, C05.021.227A
Circumferential		CN-ISIN3-2554-1.6							
			Pipe to Elbow						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0061	2NV181-14								
	Class 2 NV	CN-2NV-181	PDI-UT-2	UT	SS	40	0.237 / 4.000	Component	C05.021.227,
		CN-ISIN3-2554-1.6						PDI-UT-2-C	C05.021.227A
Circumferential									
			Pipe to Elbow						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.21.0062	2NV182-1 Class 2 NV	CN-2NV-182	NDE-35	PT	SS	40	0.237 / 4.000		C05.021.228, C05.021.228A
Circumferential Terminal End		CN-ISIN3-2554-1.6	Nozzle to Pipe Seal Water Heat Exchanger. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0062	2NV182-1 Class 2 NV	CN-2NV-182 CN-ISIN3-2554-1.6	PDI-UT-2	UT	SS	40	0.237 / 4.000	Component PDI-UT-2-C	C05.021.228, C05.021.228A
Circumferential Terminal End			Nozzle to Pipe Seal Water Heat Exchanger. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0063	2NV182-3 Class 2 NV	CN-2NV-182	NDE-35	PT	SS	40	0.237 / 4.000		C05.021.229, C05.021.229A
Circumferential		CN-ISIN3-2554-1.6	Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0063	2NV182-3 Class 2 NV	CN-2NV-182 CN-ISIN3-2554-1.6	PDI-UT-2	UT	SS	40	0.237 / 4.000	Component PDI-UT-2-C	C05.021.229, C05.021.229A
Circumferential			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1									
C2.C5.21.0081	2NV92-11 Class 2 NV	CN-2NV-92	NDE-35	PT	SS	40	0.216 / 3.000		C05.021.247, C05.021.247A
Circumferential *Terminal End*		CN-ISIN3-2554-1.1	Elbow to Nozzle Volume Control Tank. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.21.0081	2NV92-11 Class 2 NV	CN-2NV-92 CN-ISIN3-2554-1.1	PDI-UT-2	UT	SS	40	0.216 / 3.000	Component PDI-UT-2-C	C05.021.247, C05.021.247A
Circumferential Terminal End			Elbow to Nozzle Volume Control Tank. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. If PDI-UT-2 is used , then the calibration block listed shall be used.						
C2.C5.30.0002	2CA53-11 Class 2 CA	CN-2CA-53	NDE-35	PT	SS-CS	80	0.218 / 2.000		C05.030.002
Circumferential		CN-ISIN3-2592-1.1	Valve 2CA190 to Pipe						
Category C-F-2									
C2.C5.51.0012	2CA97-10 Class 2 CA	CN-2CA-97	NDE-25	MT	CS	80	0.432 / 6.000		C05.051.012, C05.051.012A
Circumferential		CN-ISIN3-2592-1.1	*Elbow to Pipe* Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-2									
C2.C5.51.0012	2CA97-10 Class 2 CA	CN-2CA-97 CN-ISIN3-2592-1.1	NDE-600	UT	CS	80	0.432 / 6.000	Component PDI-UT-1-C	C05.051.012, C05.051.012A
Circumferential			Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.C5.51.0013	2CA97-9 Class 2 CA	CN-2CA-97	NDE-25	MT	CS	80	0.432 / 6.000		C05.051.013, C05.051.013A
Circumferential		CN-ISIN3-2592-1.1	Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.C5.51.0013	2CA97-9 Class 2 CA	CN-2CA-97 CN-ISIN3-2592-1.1	NDE-600	UT	CS	80	0.432 / 6.000	Component PDI-UT-1-C	C05.051.013, C05.051.013A
Circumferential			Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.C5.51.0018	2CF65-24 Class 2 CF	CN-2CF-65	NDE-25	MT	CS	80	0.844 / 16.000		C05.051.055, C05.051.055A
Circumferential		CN-ISIN3-2591-1.1	Elbow to Valve 2CF044 Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-2									
C2.C5.51.0018	2CF65-24								
	Class 2 CF	CN-2CF-65	PDI-UT-1	UT	CS	80	0.844 / 16.000	Component	C05.051.055,
		CN-ISIN3-2591-1.1						PDI-UT-1-C	C05.051.055A
Circumferential									
			Elbow to Valve 2CF044						
			Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.C5.51.0019	2CF65-27								
	Class 2 CF	CN-2CF-65	NDE-25	MT	CS	80	0.844 / 16.000		C05.051.056,
									C05.051.056A
Circumferential		CN-ISIN3-2591-1.1							
Terminal End									
			Elbow to Nozzle						
			Steam Generator 2B. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
C2.C5.51.0019	2CF65-27								
	Class 2 CF	CN-2CF-65	PDI-UT-1	UT	CS	80	0.844 / 16.000	Component	C05.051.056,
		CN-ISIN3-2591-1.1						PDI-UT-1-C	C05.051.056A
Circumferential									
Terminal End									
			Elbow to Nozzle						
			Steam Generator 2B. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of NDE-600. If PDI-UT-1 is used , then the calibration block listed shall be used.						
Category C-G									
C2.C6.20.0001	2CF-60								
	Class 2 CF	CN-ISIN3-2591-1.1	NDE-25	MT	CS		1.782 / 18.000		C06.020.001
Circumferential		CNM 1205.12-0051							
			Valve Body to Bonnet						
			Valve Body Weld - Valve Numbers in Valve Group 2CF-33, 2CF-42, 2CF-51, 2CF-60.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category D-A									
C2.D1.10.0021	2DGEJWSTPA-SUPPORT								
	Class 3 KD	CNM 1301.00-105	NDE-65	VT-1	NA		1.000 / 0.000		D01.010.01
Rigid Support		CN-ISIN3-2609-1.0							
		CNM 1301.00-106							
			Diesel Generator Engine Jacket Water Standpipe 2A Support Welded Attachments. Reference CNM 1301.00-0106 (1 Baseplate Item S, 4 Stiffeners Item R, 3 Saddles Item B) Reference PIP# C-08-02442. Reference PIP Serial No. C-06-05445 - Missed 2nd Interval.						
C2.D1.20.0009	2-R-TE-0022								
	Class 3 TE	CN-2492-TE001	NDE-65	VT-1	NA		0.750 / 12.000		D01.020.041
Rigid Support		CN-ISIN3-2593-1.2							
			Inspect with F01.030.201.						
C2.D1.20.0010	2-R-VN-0006								
	Class 3 VN	CN-2493-VN013	NDE-65	VT-1	NA		0.750 / 26.000		D01.020.051
Spring Hgr		CN-ISIN3-2609-5.0							
			Inspect with F01.032.224.						
C2.D1.20.0011	2-R-VN-0011								
	Class 3 VN	CN-2493-VN014	NDE-65	VT-1	NA		0.750 / 26.000		D01.020.052
Spring Hgr		CN-ISIN3-2609-5.0							
			Inspect with F01.032.225.						
Category ELC									
C2.H3.1.0004	2ND22-1								
	Class 2 ND	CN-2ND-022	NDE-998	UT	SS		0.250 / 8.000	Component	---
			Tee to Elbow Thermal Fatigue Management Program (Reference QA-513J Form dated 4/17/2008 - Engineering Tracking Number ER-CNS-08-01) Examination Frequency: Beginning in EOC16 (Outage 3) and every 6 years EOC20 (outage 7).						

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category ELC									
C2.H3.1.0005	2ND22-2 Class 2 ND	CN-2ND-022	NDE-998 Pipe to Tee Thermal Fatigue Management Program (Reference QA-513J Form dated 4/17/2008 - Engineering Tracking Number ER-CNS-08-01) Examination Frequency: Beginning in EOC16 (Outage 3) and every 6 years EOC20 (outage 7).	UT	SS		0.250 / 8.000	Component	---
C2.H3.1.0006	2ND34-1 Class 2 ND	CN-2ND-034	NDE-998 Pipe to Tee Thermal Fatigue Management Program (Reference QA-513J Form dated 4/17/2008 - Engineering Tracking Number ER-CNS-08-01) Examination Frequency: Beginning in EOC16 (Outage 3) and every 6 years EOC20 (outage 7).	UT	SS		0.250 / 8.000	Component	---
Category F-A									
C2.F1.10.0016	2-R-NI-1757 Class 1 NI Rigid Support	CN-2491-NI116 CN-ISIN3-2562-1.1	NDE-66	VT-3	NA		0.000 / 10.000		F01.010.057
C2.F1.10.0017	2-R-NI-1764 Class 1 NI Rigid Support	CN-2491-NI116 CN-ISIN3-2562-1.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.010.058
C2.F1.10.0018	2-R-NI-1765 Class 1 NI Rigid Support	CN-2491-NI116 CN-ISIN3-2562-1.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.010.059
C2.F1.10.0019	2-R-NI-1766 Class 1 NI Rigid Support	CN-2491-NI116 CN-ISIN3-2562-1.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.010.060
C2.F1.20.0004	2-R-CA-1574 Class 2 CA Rigid Support	CN-2491-CA009 CN-ISIN3-2592-1.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.020.004

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
C2.F1.20.0005	2-R-CA-1577								
	Class 2 CA	CN-2491-CA009	NDE-66	VT-3	NA		0.000 / 6.000		F01.020.00
Rigid Support		CN-ISIN3-2592-1.1							
C2.F1.20.0006	2-R-CA-1578								
	Class 2 CA	CN-2491-CA009	NDE-66	VT-3	NA		0.000 / 6.000		F01.020.00
Rigid Support		CN-ISIN3-2592-1.1							
C2.F1.20.0009	2-R-CA-1692								
	Class 2 CA	CN-2491-CA005	NDE-66	VT-3	NA		0.000 / 4.000		F01.020.00
Rigid Support		CN-ISIN3-2592-1.1							
C2.F1.20.0022	2-R-ND-0036								
	Class 2 ND	CN-2492-ND010	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.03
Rigid Support		CN-ISIN3-2561-1.0							
C2.F1.20.0023	2-R-ND-0037								
	Class 2 ND	CN-2492-ND010	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.03
Rigid Support		CN-ISIN3-2561-1.0							
C2.F1.20.0024	2-R-ND-0040								
	Class 2 ND	CN-2492-ND010	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.03
Rigid Support		CN-ISIN3-2561-1.0							
C2.F1.20.0025	2-R-ND-0044								
	Class 2 ND	CN-2492-ND010	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.03
Rigid Support		CN-ISIN3-2561-1.0							
C2.F1.20.0026	2-R-ND-0045								
	Class 2 ND	CN-2492-ND010	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.03
Rigid Support		CN-ISIN3-2561-1.0							

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
C2.F1.20.0039	2-R-NI-1670								
	Class 2 NI	CN-2491-NI042	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.06E
Rigid Support		CN-ISIN3-2562-1.3							
C2.F1.20.0040	2-R-NI-1671								
	Class 2 NI	CN-2491-NI042	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.067
Rigid Support		CN-ISIN3-2562-1.3							
C2.F1.20.0041	2-R-NI-1673								
	Class 2 NI	CN-2491-NI042	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.06E
Rigid Support		CN-ISIN3-2562-1.3							
C2.F1.20.0058	2-R-NS-1180								
	Class 2 NS	CN-2491-NS004	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.097
Rigid Support		CN-ISIN3-2563-1.0							
C2.F1.20.0059	2-R-NS-1181								
	Class 2 NS	CN-2491-NS004	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.09E
Rigid Support		CN-ISIN3-2563-1.0							
C2.F1.20.0078	2-R-NV-0244								
	Class 2 NV	CN-2492-NV035	NDE-66	VT-3	NA		0.000 / 3.000		F01.020.14S
Rigid Support		CN-ISIN3-2554-1.2							
C2.F1.20.0079	2-R-NV-0272								
	Class 2 NV	CN-2492-NV035	NDE-66	VT-3	NA		0.000 / 3.000		F01.020.15C
Rigid Support		CN-ISIN3-2554-1.2							
C2.F1.20.0080	2-R-NV-0247								
	Class 2 NV	CN-2492-NV037	NDE-66	VT-3	NA		0.000 / 3.000		F01.020.151
Rigid Support		CN-ISIN3-2554-1.2							

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
C2.F1.20.0081 Rigid Support	2-R-NV-0248 Class 2 NV	CN-2492-NV037 CN-ISIN3-2554-1.2	NDE-66	VT-3	NA		0.000 / 3.000		F01.020.152
C2.F1.20.0082 Rigid Support	2-R-NV-0249 Class 2 NV	CN-2492-NV037 CN-ISIN3-2554-1.2	NDE-66	VT-3	NA		0.000 / 3.000		F01.020.153
C2.F1.21.0001 Rigid Restraint	2-R-CA-1571 Class 2 CA	CN-2491-CA009 CN-ISIN3-2592-1.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.021.001
C2.F1.21.0002 Rigid Restraint	2-R-CA-1575 Class 2 CA	CN-2491-CA009 CN-ISIN3-2592-1.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.021.002
C2.F1.21.0024 Rigid Restraint	2-R-NI-1672 Class 2 NI	CN-2491-NI042 CN-ISIN3-2562-1.3	NDE-66	VT-3	NA		0.000 / 8.000		F01.021.071
C2.F1.21.0039 Rigid Restraint	2-R-NS-1171 Class 2 NS	CN-2491-NS005 CN-ISIN3-2563-1.0	NDE-66	VT-3	NA		0.000 / 8.000		F01.021.096
C2.F1.21.0040 Rigid Restraint	2-R-NS-1172 Class 2 NS	CN-2491-NS005 CN-ISIN3-2563-1.0	NDE-66	VT-3	NA		0.000 / 8.000		F01.021.097
C2.F1.21.0042 Rigid Restraint	2-R-NS-1166 Class 2 NS	CN-2491-NS006 CN-ISIN3-2563-1.0	NDE-66	VT-3	NA		0.000 / 8.000		F01.021.099

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
C2.F1.21.0043	2-R-NS-1167								
	Class 2 NS	CN-2491-NS006	NDE-66	VT-3	NA		0.000 / 8.000		F01.021.10(
Rigid Restraint		CN-ISIN3-2563-1.0							
C2.F1.21.0044	2-R-NS-1168								
	Class 2 NS	CN-2491-NS006	NDE-66	VT-3	NA		0.000 / 8.000		F01.021.101
Rigid Restraint		CN-ISIN3-2563-1.0							
C2.F1.21.0053	2-R-NS-1219								
	Class 2 NS	CN-2491-NS001	NDE-66	VT-3	NA		0.750 / 8.000		F01.021.11(
Rigid Restraint		CN-ISIN3-2563-1.0							
C2.F1.21.0064	2-R-NV-1089								
	Class 2 NV	CN-2491-NV044	NDE-66	VT-3	NA		0.000 / 2.000		F01.021.151
Rigid Restraint		CN-ISIN3-2554-1.5							
C2.F1.21.0065	2-R-NV-1090								
	Class 2 NV	CN-2491-NV044	NDE-66	VT-3	NA		0.000 / 2.000		F01.021.152
Rigid Restraint		CN-ISIN3-2554-1.5							
C2.F1.21.0079	2-A-NV-3684								
	Class 2 NV	CN-2492-NV150	NDE-66	VT-3	NA		0.438 / 3.000		F01.021.16(
Rigid Restraint		CN-ISIN3-2554-1.1							
C2.F1.21.0418	2-R-NV-1139								
	Class 2 NV	CN-2491-NV033	NDE-66	VT-3	NA		0.000 / 2.000		F01.021
Rigid Restraint		CN-ISIN3-2554-1.5							
C2.F1.21.0435	2-R-NI-1686								
	Class 2 NI	CN-2491-NI055	NDE-66	VT-3	NA		0.000 / 8.000		F01.021
Rigid Restraint		CN-ISIN3-2562-1.3							

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
C2.F1.22.0014 Spring Hgr	2-R-ND-0143 Class 2 ND	CN-2492-ND007 CN-ISIN3-2561-1.0	NDE-66	VT-3	NA		0.000 / 14.000		F01.022.03
C2.F1.22.0015 Spring Hgr	2-R-ND-0149 Class 2 ND	CN-2492-ND007 CN-ISIN3-2561-1.0	NDE-66	VT-3	NA		0.000 / 14.000		F01.022.03
C2.F1.22.0038 Spring Hgr	2-R-SM-1554 Class 2 SM	CN-2491-SM003 CN-ISIN3-2593-1.0	NDE-66	VT-3	NA		0.750 / 34.000		F01.022.207
C2.F1.30.0049 Rigid Support	2-R-TE-0022 Class 3 TE	CN-2492-TE001 CN-ISIN3-2593-1.2	NDE-66 Inspect with D01.020.041.	VT-3	NA		0.750 / 12.000		F01.030.201
C2.F1.31.0001 Rigid Restraint	2-R-CA-0029 Class 3 CA	CN-2492-CA025 CN-ISIN3-2592-1.0	NDE-66	VT-3	NA		0.000 / 6.000		F01.031.001
C2.F1.31.0002 Rigid Restraint	2-R-CA-0031 Class 3 CA	CN-2492-CA025 CN-ISIN3-2592-1.0	NDE-66	VT-3	NA		0.000 / 6.000		F01.031.002
C2.F1.31.0003 Rigid Restraint	2-R-CA-0032 Class 3 CA	CN-2492-CA025 CN-ISIN3-2592-1.0	NDE-66	VT-3	NA		0.000 / 6.000		F01.031.003
C2.F1.31.0007 Rigid Restraint	2-R-CA-0024 Class 3 CA	CN-2492-CA025 CN-ISIN3-2592-1.0	NDE-66	VT-3	NA		0.000 / 6.000		F01.031.007

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure *Description* Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
C2.F1.31.0031 Rigid Restraint	2-R-TE-0020 Class 3 TE	CN-2492-TE001 CN-ISIN3-2593-1.2	NDE-66	VT-3	NA		0.000 / 12.000		F01.031.201
C2.F1.32.0018 Spring Hgr	2-R-VN-0047 Class 3 VN	CN-2493-VN011 CN-ISIN3-2609-5.0	NDE-66	VT-3	NA		0.750 / 26.000		F01.032.221
C2.F1.32.0019 Spring Hgr	2-R-VN-0052 Class 3 VN	CN-2493-VN012 CN-ISIN3-2609-5.0	NDE-66	VT-3	NA		0.750 / 26.000		F01.032.222
C2.F1.32.0021 Spring Hgr	2-R-VN-0006 Class 3 VN	CN-2493-VN013 CN-ISIN3-2609-5.0	NDE-66 Inspect with D01.020.051.	VT-3	NA		0.750 / 26.000		F01.032.224
C2.F1.32.0022 Spring Hgr	2-R-VN-0011 Class 3 VN	CN-2493-VN014 CN-ISIN3-2609-5.0	NDE-66 Inspect with D01.020.052.	VT-3	NA		0.750 / 26.000		F01.032.225
C2.F1.32.0024 Mech Snubber	2-R-YC-0023 Class 3 YC	CN-2525-YC004 CN-ISIN3-1578-2.2	NDE-66	VT-3	NA		0.000 / 6.000		F01.032.252
C2.F1.40.0029 Rigid Support	2KCPA1-SUPPORT Class 3 KC	CN-ISIN3-2573-1.0 CNM 1201.05-121	NDE-66 Component Cooling Pump 2A1 Support.	VT-3	NA		0.000 / 0.000		F01.040.205

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
C2.F1.40.0031	2MDCAPA-SUPPORT Class 3 CA	CNM 1201.05-351 CN-ISIN3-2592-1.0	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.207
Rigid Support			Motor Driven Auxillary FeedWater Pump 2A Support.						
C2.F1.40.0103	2PZR-SUPPORT Class 1 NC	CN-ISIN3-2553-1.0	NDE-66	VT-3	NA		0.000 / 0.000		---
			Pressurizer Lower Support Frame						
Category Q-A									
C2.Q1.1.0001	2NC8-3V Class 1 NC	CN-2NC-0008	PDI-UT-8	UT	SS-CS		1.640 / 14.000	DE-13-CIRC-01 DE-13-AX-01	---
			Pressurizer Surge Nozzle: Weld 2NC8-3V is weld overlay that covers welds 2PZR-W1SE and 2NC8-W3. Inspection in Outage 3 (EOC16) does not count in code percentages. The inspection in Outage 6 (EOC19) is part of the 25% of the total population of weld overlay items that are required to be examined during the 10 year interval. The weld inspection in Outage 6 (EOC19) does count in the code percentages (25% for Appendix Q).						
C2.Q1.1.0002	2NC117-7V Class 1 NC	CN-2NC-0117	PDI-UT-8	UT	SS-CS		0.960/ 6.000	DE-8-CIRC-01 DE-8-AX-01	---
Circumferential			Pressurizer Relief Nozzle (W-Z): Weld 2NC117-7V is weld overlay that covers welds 2PZR-W4CSE and 2NC117-W7. Inspection in Outage 3 (EOC16) does not count in code percentages. The inspection in Outage 6 (EOC19) is part of the 25% of the total population of weld overlay items that are required to be examined during the 10 year interval. The weld inspection in Outage 6 (EOC19) does count in the code percentages (25% for Appendix Q).						
C2.Q1.1.0003	2NC44-28V Class 1 NC	CN-2NC-0044	PDI-UT-8	UT	SS-CS		0.760/ 4.000	DE-6-CIRC-01 DE-6-AX-01	---
Circumferential			Pressurizer Spray Nozzle: Weld 2NC44-28V is weld overlay that covers welds 2PZR-W2SE and 2NC44-W28. Inspection in Outage 3 (EOC16) does not count in code percentages required (25% for Appendix Q) for the 10 year interval.						

Summary Num	Component ID / Class / System	ISO/DWG Numbers	Procedure / Description / Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category Q-A									
C2.Q1.1.0004	2NC119-1V Class 1 NC	CN-2NC-0119	PDI-UT-8	UT	SS-CS		0.960/ 6.000	DE-8-CIRC-01 DE-8-AX-01	---
Circumferential			Pressurizer Safety Nozzle (X-Y): Weld 2NC119-1V is weld overlay that covers welds 2PZR-W4ASE and 2NC119-W3. Inspection in Outage 3 (EOC16) does not count in code percentages required (25% for Appendix Q) for the 10 year interval.						
C2.Q1.1.0005	2NC163-1V Class 1 NC	CN-2NC-0163	PDI-UT-8	UT	SS-CS		0.960/ 6.000	DE-8-CIRC-01 DE-8-AX-01	---
Circumferential			Pressurizer Safety Nozzle (X-W): Weld 2NC163-1V is weld overlay that covers welds 2PZR-W4BSE and 2NC163-W1. Inspection in Outage 3 (EOC16) does not count in code percentages required (25% for Appendix Q) for the 10 year interval.						
C2.Q1.1.0006	2NC112-5V Class 1 NC	CN-2NC-0112	PDI-UT-8	UT	SS-CS		0.960/ 6.000	DE-8-CIRC-01 DE-8-AX-01	---
Circumferential			Pressurizer Safety Nozzle (Y-Z): Weld 2NC112-5V is weld overlay that covers welds 2PZR-W3SE and 2NC112-W5. Inspection in Outage 3 (EOC16) does not count in code percentages required (25% for Appendix Q) for the 10 year interval.						

End of Report

STATISTICS ONLY Class 1 65 Class 2 183 Class 3 17 Total by Class 265 Systems 265 Total Count 265

4.0 ***Results Of Inspections Performed***

The results of each examination shown in the final Inservice Inspection Plan Report (Section 3 of this report) are included in this section. The completion date and status for each examination are shown. All examinations revealing reportable indications and any corrective action required as a result are described in further detail in Subsections 4.1 and 4.2. Corrective measures performed and limited examinations are described in further detail in Subsections 4.3 and 4.4.

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

Summary No	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), IWF-2500-1 (Class 1 and Class 2), Augmented / Elective Requirements
Component ID	=	Unique Identification Number
System	=	Component System Identification
Insp Date	=	Date of Examination
Insp Status	=	CLR Clear REC Recordable REP Reportable
Insp Limited (Indicates inspection volume examined was less than 100%.)	=	Y Yes N No
Geo Ref (Geometric Reflector applies only to UT)	=	Y Yes N No
RFR (Relief Request required for limited inspection.)	=	Y Yes N No
Comments	=	General and/or Detail Description

4.1 Reportable Indications

No Reportable Condition was detected during Outage 3/EOC16

4.2 Corrective Action

Corrective action is action taken to resolve flaws and relevant conditions, including supplemental examinations, analytical evaluations, repair / replacement activities, and corrective measures. There were no recordable conditions that required corrective action during this report period.

4.3 Corrective Measures

Corrective measures are actions (such as maintenance) taken to resolve relevant conditions, but not including supplemental examinations, analytical evaluations, and repair / replacement activities. Any corrective measures performed for examinations associated with this report period will be shown on the examination data sheets which are on file at the Duke Energy Corporate Office in Charlotte, North Carolina.

4.4 Limited Examinations

Limitations (i.e. 90% or less of the required examination coverage obtained) identified for examinations associated with this report period are shown below. A relief request will be submitted to seek NRC acceptance of the limited coverage. This information will be on file at The Duke Energy Corporate Office in Charlotte, North Carolina. See Subsection 1.3 for additional information on relief request.

Summary Number	Relief Request Serial Numbers
C2.B9.11.0106	To be filed later
C2.C1.10.0002	To be filed later

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System
Inspection Results
Catawba 2, 3rd Interval, Outage 3 (EOC-16)

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.B15.80.0001	2RPV-BMI-NOZZLES	NC	03/09/09	REC	N	N	N	VT-09-230 Condition found acceptable based on evaluation Report No. EV-09-015 by Bill Callaway on 06/03/09. Reference PIP Serial No. C-09-1486
C2.B15.95.0001	2RPV201-121ASE	NC	04/05/09	CLR	N	N	N	VT-09-232
C2.B4.10.0002	2RPV-HEAD-SURFACE-MULTIPLE	NC	04/06/09	CLR	N	N	N	VT-09-231
C2.B7.10.0001	2RPV-CETNA-74	NC	04/10/09	CLR	N	N	N	VT-09-216
C2.B7.10.0002	2RPV-CETNA-75	NC	04/10/09	CLR	N	N	N	VT-09-217
C2.B7.10.0003	2RPV-CETNA-76	NC	04/10/09	CLR	N	N	N	VT-09-218
C2.B7.10.0004	2RPV-CETNA-77	NC	04/10/09	CLR	N	N	N	VT-09-219
C2.B7.10.0005	2RPV-CETNA-78	NC	04/10/09	CLR	N	N	N	VT-09-220
C2.B7.30.0003	2SGB-MW-W-X	NC	03/16/09	CLR	N	N	N	VT-09-169
C2.B7.30.0004	2SGB-MW-Z-W	NC	03/16/09	CLR	N	N	N	VT-09-170
C2.B7.50.0008	2NV224-MJ1	NV	03/16/09	CLR	N	N	N	VT-09-161

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.B7.50.0009	2NV224-MJ2	NV	03/16/09	CLR	N	N	N	VT-09-162
C2.B7.50.0010	2NV323-MJ1	NV	03/16/09	CLR	N	N	N	VT-09-163
C2.B7.70.0002	2NC-27	NC	03/12/09	CLR	N	N	N	VT-09-185
C2.B9.11.0042	2NC26-3	NC	03/30/09	CLR	N	N	N	PT-09-088
		NC	03/30/09	CLR	N	N	N	UT-09-133
C2.B9.11.0043	2NC26-4	NC	03/30/09	CLR	N	N	N	PT-09-089
		NC	03/30/09	CLR	N	N	N	UT-09-132
C2.B9.11.0046	2NC33-14	NC	04/04/09	CLR	N	N	N	PT-09-095
		NC	04/04/09	CLR	N	N	N	UT-09-147
C2.B9.11.0048	2NC33-2	NC	04/04/09	CLR	N	N	N	PT-09-096
		NC	04/04/09	CLR	N	N	N	UT-09-148
C2.B9.11.0049	2NC42-11	NC	03/29/09	CLR	N	N	N	PT-09-085
		NC	03/29/09	CLR	N	N	N	UT-09-134
C2.B9.11.0050	2NC42-12	NC	03/29/09	CLR	N	N	N	PT-09-086
		NC	03/29/09	CLR	N	N	N	UT-09-135

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.B9.11.0074	2ND67-11	ND	04/01/09	CLR	N	N	N	PT-09-091
		ND	04/01/09	CLR	N	N	N	UT-09-141
C2.B9.11.0075	2ND67-8	ND	04/01/09	CLR	N	N	N	PT-09-092
		ND	04/01/09	CLR	N	N	N	UT-09-142
C2.B9.11.0076	2ND67-9	ND	04/01/09	CLR	N	N	N	PT-09-093
		ND	04/01/09	CLR	N	N	N	UT-09-143
C2.B9.11.0103	2NI63-3	NI	03/27/09	CLR	N	N	N	PT-09-084
		NI	03/27/09	CLR	N	N	N	UT-09-128
C2.B9.11.0105	2NI70-1	NI	03/15/09	CLR	N	N	N	PT-09-063
		NI	03/16/09	CLR	N	N	N	UT-09-100
C2.B9.11.0106	2NI70-4	NI	03/15/09	CLR	N	N	N	PT-09-064
		NI	03/16/09	REC	Y	N	Y	UT-09-101
								Limitation due to valve configuration
C2.B9.11.0111	2NI75-6	NI	03/15/09	CLR	N	N	N	PT-09-066
		NI	03/16/09	CLR	N	N	N	UT-09-095
C2.B9.11.0112	2NI75-8	NI	03/15/09	CLR	N	N	N	PT-09-065

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.B9.11.0112	2NI75-8	NI	03/16/09	CLR	N	N	N	UT-09-096
C2.B9.21.0028	2NV119-1	NV	03/23/09	CLR	N	N	N	PT-09-079
C2.B9.21.0029	2NV119-2	NV	03/23/09	CLR	N	N	N	PT-09-080
C2.B9.21.0032	2NV209-RCP2A-1	NV	03/31/09	CLR	N	N	N	PT-09-087
C2.C1.10.0001	2SGB-03-04A	NC	03/27/09	CLR	N	N	N	UT-09-137
		NC	03/27/09	CLR	N	N	N	UT-09-139
C2.C1.10.0002	2SGC-04B-05	NC	03/27/09	REC	Y	N	Y	UT-09-138 Limitation due to permenent restraint ring and tabs.
		NC	03/27/09	REC	Y	N	Y	UT-09-140 Limitation due to permenent restraint ring and tabs.
C2.C1.10.0003	2SGD-05-06A	NC	03/25/09	CLR	N	N	N	UT-09-125
		NC	03/25/09	CLR	N	N	N	UT-09-127
C2.C1.10.0007	2ARHRHX-5-9	ND	03/10/09	CLR	N	N	N	VT-09-189 See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.10.0011	2BRHRHX-5-9	ND	03/10/09	CLR	N	N	N	VT-09-190 See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.20.0001	2SGD-06B-07	NC	03/25/09	CLR	N	N	N	UT-09-124

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.C1.20.0001	2SGD-06B-07	NC	03/25/09	CLR	N	N	N	UT-09-126
C2.C1.20.0004	2REGHX-SH1-HD1	NV	04/17/09	CLR	N	N	N	VT-09-201
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.20.0005	2REGHX-SH1-HD2	NV	04/17/09	CLR	N	N	N	VT-09-205
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.20.0006	2REGHX-SH2-HD1	NV	04/17/09	CLR	N	N	N	VT-09-206
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.20.0007	2REGHX-SH2-HD2	NV	04/17/09	CLR	N	N	N	VT-09-207
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.20.0008	2REGHX-SH3-HD1	NV	04/17/09	CLR	N	N	N	VT-09-208
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.20.0009	2REGHX-SH3-HD2	NV	04/17/09	CLR	N	N	N	VT-09-209
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.20.0013	2ARHRHX-5-6	ND	03/10/09	CLR	N	N	N	VT-09-191
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.20.0017	2BRHRHX-5-6	ND	03/10/09	CLR	N	N	N	VT-09-193
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.30.0001	2SGA-02-03	NC	04/03/09	CLR	N	N	N	UT-09-149
		NC	04/03/09	CLR	N	N	N	UT-09-150

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.C1.30.0002	2REGHX-SH1-TS	NV	04/17/09	CLR	N	N	N	VT-09-210 See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.30.0003	2REGHX-SH2-TS	NV	04/17/09	CLR	N	N	N	VT-09-211 See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.30.0004	2REGHX-SH3-TS	NV	04/17/09	CLR	N	N	N	VT-09-212 See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.30.0005	2REGHX-TS-SH1	NV	04/17/09	CLR	N	N	N	VT-09-213 See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.30.0006	2REGHX-TS-SH2	NV	04/17/09	CLR	N	N	N	VT-09-214 See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C1.30.0007	2REGHX-TS-SH3	NV	04/17/09	CLR	N	N	N	VT-09-215 See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C2.21.0004	2ARHRHX-5-A	ND	03/10/09	CLR	N	N	N	VT-09-195 See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C2.21.0005	2ARHRHX-5-B	ND	03/10/09	CLR	N	N	N	VT-09-197 See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C2.21.0012	2RHRHXB-5-A	ND	03/10/09	CLR	N	N	N	VT-09-198 See Pressure Test Program for additional Results, Reference Code Case N-706.

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.C2.21.0015	2BRHRHX-5-B	ND	03/10/09	CLR	N	N	N	VT-09-200
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C3.20.0010	2-R-NS-1219	NS	03/19/09	CLR	N	N	N	PT-09-069
C2.C3.20.0013	2-A-NV-3684	NV	04/01/09	CLR	N	N	N	PT-09-090
C2.C3.30.0001	2RHRPA-LUGS	ND	03/26/09	CLR	N	N	N	PT-09-083
C2.C5.11.0013	2CA156-30	CA	03/21/09	CLR	N	N	N	PT-09-076
		CA	03/28/09	CLR	N	N	N	UT-09-129
C2.C5.11.0014	2CA156-31	CA	03/21/09	CLR	N	N	N	PT-09-077
		CA	03/28/09	CLR	N	N	N	UT-09-130
C2.C5.11.0015	2CA156-32	CA	03/21/09	CLR	N	N	N	PT-09-078
		CA	03/28/09	CLR	N	N	N	UT-09-131
C2.C5.11.0035	2ND10-8	ND	03/04/09	CLR	N	N	N	PT-09-051
		ND	03/04/09	CLR	N	Y	N	UT-09-081
								Geometric Reflector is root geometry 360 degrees
C2.C5.11.0036	2ND10-9	ND	03/04/09	CLR	N	N	N	PT-09-052
		ND	03/04/09	CLR	N	N	N	UT-09-082

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.C5.11.0037	2ND15-17	ND	02/27/09	CLR	N	N	N	PT-09-038
		ND	02/27/09	CLR	N	N	N	UT-09-068
C2.C5.11.0038	2ND15-18	ND	02/27/09	CLR	N	N	N	PT-09-059
		ND	02/27/09	CLR	N	N	N	UT-09-070
C2.C5.11.0039	2ND16-2	ND	02/27/09	CLR	N	N	N	PT-09-039
		ND	02/27/09	CLR	N	N	N	UT-09-071
C2.C5.11.0040	2ND16-3	ND	02/27/09	CLR	N	N	N	PT-09-040
		ND	02/27/09	CLR	N	N	N	UT-09-072
C2.C5.11.0041	2ND16-6	ND	02/27/09	CLR	N	N	N	PT-09-041
		ND	02/27/09	CLR	N	N	N	UT-09-093
C2.C5.11.0042	2ND16-7	ND	02/27/09	CLR	N	N	N	PT-09-042
		ND	02/27/09	CLR	N	N	N	UT-09-094
C2.C5.11.0043	2ND18-2	ND	02/27/09	CLR	N	N	N	PT-09-060
		ND	02/27/09	CLR	N	N	N	UT-09-061
C2.C5.11.0044	2ND18-8	ND	02/27/09	CLR	N	N	N	PT-09-061
		ND	02/27/09	CLR	N	N	N	UT-09-062

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.C5.11.0045	2ND18-9	ND	02/27/09	CLR	N	N	N	PT-09-062
		ND	02/27/09	CLR	N	N	N	UT-09-064
C2.C5.11.0047	2ND19-9	ND	02/26/09	CLR	N	N	N	PT-09-046
		ND	02/25/09	CLR	N	N	N	UT-09-080
C2.C5.11.0054	2ND21-19	ND	03/10/09	CLR	N	N	N	VT-09-199
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C5.11.0064	2ND32-1	ND	04/01/09	CLR	N	N	N	PT-09-094
		ND	04/01/09	CLR	N	Y	N	UT-09-146
								Geometric Reflector is beam redirection off weld interface into root
C2.C5.11.0110	2NI85-2	NI	03/20/09	CLR	N	N	N	PT-09-070
		NI	03/20/09	CLR	N	N	N	UT-09-105
C2.C5.11.0111	2NI85-3	NI	03/20/09	CLR	N	N	N	PT-09-071
		NI	03/20/09	CLR	N	N	N	UT-09-106
C2.C5.11.0112	2NI85-5	NI	03/20/09	CLR	N	N	N	PT-09-072
		NI	03/20/09	CLR	N	N	N	UT-09-107
C2.C5.11.0113	2NI85-6	NI	03/20/09	CLR	N	N	N	PT-09-073

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.C5.11.0113	2NI85-6	NI	03/20/09	CLR	N	N	N	UT-09-108
C2.C5.11.0114	2NI85-7	NI	03/20/09	CLR	N	N	N	PT-09-074
		NI	03/20/09	CLR	N	N	N	UT-09-109
C2.C5.11.0115	2NI85-8	NI	03/20/09	CLR	N	N	N	PT-09-075
		NI	03/20/09	CLR	N	N	N	UT-09-110
C2.C5.11.1126	2ND34-17	ND	03/10/09	CLR	N	N	N	VT-09-196
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C5.11.1654	2ND25-19	ND	03/10/09	CLR	N	N	N	VT-09-194
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C5.11.1755	2ND44-20	ND	03/10/09	CLR	N	N	N	VT-09-192
								See Pressure Test Program for additional Results, Reference Code Case N-706.
C2.C5.21.0015	2NI200-2	NI	03/15/09	CLR	N	N	N	PT-09-067
		NI	03/15/09	CLR	N	N	N	UT-09-091
C2.C5.21.0016	2NI200-3	NI	03/15/09	CLR	N	N	N	PT-09-068
		NI	03/15/09	CLR	N	N	N	UT-09-092
C2.C5.21.0017	2NI23-4	NI	03/04/09	CLR	N	N	N	PT-09-053
		NI	03/04/09	CLR	N	N	N	UT-09-083

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.C5.21.0018	2NI23-5	NI	03/04/09	CLR	N	N	N	PT-09-054
		NI	03/04/09	CLR	N	N	N	UT-09-084
C2.C5.21.0019	2NI24-1	NI	03/04/09	CLR	N	N	N	PT-09-055
		NI	03/04/09	CLR	N	N	N	UT-09-085
C2.C5.21.0020	2NI24-10	NI	03/04/09	CLR	N	N	N	PT-09-056
		NI	03/04/09	CLR	N	N	N	UT-09-086
C2.C5.21.0021	2NI24-11	NI	03/04/09	CLR	N	N	N	PT-09-057
		NI	03/04/09	CLR	N	N	N	UT-09-087
C2.C5.21.0022	2NI24-18	NI	03/04/09	CLR	N	N	N	PT-09-058
		NI	03/04/09	CLR	N	N	N	UT-09-088
C2.C5.21.0023	2NI255-20	NI	02/25/09	CLR	N	N	N	PT-09-047
		NI	02/25/09	CLR	N	N	N	UT-09-073
C2.C5.21.0024	2NI255-5	NI	02/25/09	CLR	N	N	N	PT-09-048
		NI	02/25/09	CLR	N	N	N	UT-09-074
C2.C5.21.0060	2NV181-1	NV	02/26/09	CLR	N	N	N	PT-09-043
		NV	02/26/09	CLR	N	N	N	UT-09-075

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.C5.21.0061	2NV181-14	NV	02/26/09	CLR	N	N	N	PT-09-049
		NV	02/26/09	CLR	N	N	N	UT-09-076
C2.C5.21.0062	2NV182-1	NV	02/26/09	CLR	N	N	N	PT-09-044
		NV	02/26/09	CLR	N	N	N	UT-09-077
C2.C5.21.0063	2NV182-3	NV	02/26/09	CLR	N	N	N	PT-09-045
		NV	02/26/09	CLR	N	N	N	UT-09-078
C2.C5.21.0081	2NV92-11	NV	03/26/09	CLR	N	N	N	PT-09-082
		NV	03/25/09	CLR	N	N	N	UT-09-123
C2.C5.30.0002	2CA53-11	CA	04/08/09	CLR	N	N	N	PT-09-097
C2.C5.51.0012	2CA97-10	CA	04/01/09	CLR	N	N	N	MT-09-033
		CA	04/01/09	CLR	N	N	N	UT-09-144
C2.C5.51.0013	2CA97-9	CA	04/01/09	CLR	N	N	N	MT-09-034
		CA	04/01/09	CLR	N	Y	N	UT-09-145
								Indications #1 and 2 are geometric reflectors off heavy weld root.
C2.C5.51.0018	2CF65-24	CF	03/24/09	CLR	N	N	N	MT-09-031
		CF	03/24/09	CLR	N	Y	N	UT-09-121
								Indication is geometric reflector from counterbore in pipe

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.C5.51.0019	2CF65-27	CF	03/24/09	CLR	N	N	N	MT-09-032
		CF	03/24/09	CLR	N	N	N	UT-09-122
C2.C6.20.0001	2CF-60	CF	03/21/09	CLR	N	N	N	MT-09-030
C2.D1.10.0021	2DGEJWSTPA-SUPPORT	KD	06/01/08	CLR	N	N	N	VT-08-125
C2.D1.20.0009	2-R-TE-0022	TE	03/26/09	CLR	N	N	N	VT-09-227
C2.D1.20.0010	2-R-VN-0006	VN	03/24/09	CLR	N	N	N	VT-09-228
C2.D1.20.0011	2-R-VN-0011	VN	03/24/09	CLR	N	N	N	VT-09-229
C2.F1.10.0016	2-R-NI-1757	NI	03/12/09	CLR	N	N	N	VT-09-146
C2.F1.10.0017	2-R-NI-1764	NI	03/12/09	REC	N	N	N	VT-09-149 Condition found acceptable based on Evaluation Report No. EV-09-013 by Mark Shutt on 03/15/09.
C2.F1.10.0018	2-R-NI-1765	NI	03/12/09	CLR	N	N	N	VT-09-150
C2.F1.10.0019	2-R-NI-1766	NI	03/12/09	REC	N	N	N	VT-09-151 Condition found acceptable based on Evaluation Report No. EV-09-014 by Mark Shutt on 03/15/09.
C2.F1.20.0004	2-R-CA-1574	CA	03/12/09	CLR	N	N	N	VT-09-171
C2.F1.20.0005	2-R-CA-1577	CA	03/12/09	CLR	N	N	N	VT-09-172

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.F1.20.0006	2-R-CA-1578	CA	03/12/09	CLR	N	N	N	VT-09-173
C2.F1.20.0009	2-R-CA-1692	CA	04/02/09	CLR	N	N	N	VT-09-183
C2.F1.20.0022	2-R-ND-0036	ND	03/09/09	CLR	N	N	N	VT-09-132
C2.F1.20.0023	2-R-ND-0037	ND	03/09/09	CLR	N	N	N	VT-09-131
C2.F1.20.0024	2-R-ND-0040	ND	03/09/09	CLR	N	N	N	VT-09-135
C2.F1.20.0025	2-R-ND-0044	ND	03/09/09	CLR	N	N	N	VT-09-134
C2.F1.20.0026	2-R-ND-0045	ND	03/09/09	CLR	N	N	N	VT-09-133
C2.F1.20.0039	2-R-NI-1670	NI	03/12/09	CLR	N	N	N	VT-09-147
C2.F1.20.0040	2-R-NI-1671	NI	03/12/09	CLR	N	N	N	VT-09-148
C2.F1.20.0041	2-R-NI-1673	NI	03/12/09	CLR	N	N	N	VT-09-145
C2.F1.20.0058	2-R-NS-1180	NS	04/02/09	CLR	N	N	N	VT-09-184
C2.F1.20.0059	2-R-NS-1181	NS	04/01/09	CLR	N	N	N	VT-09-182
C2.F1.20.0078	2-R-NV-0244	NV	03/09/09	CLR	N	N	N	VT-09-137
C2.F1.20.0079	2-R-NV-0272	NV	03/09/09	REC	N	N	N	VT-09-143

Condition found acceptable based on Evaluation Report No. EV-09-012 by Mark Shutt on 03/11/09.

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.F1.20.0080	2-R-NV-0247	NV	03/09/09	CLR	N	N	N	VT-09-138
C2.F1.20.0081	2-R-NV-0248	NV	03/09/09	CLR	N	N	N	VT-09-136
C2.F1.20.0082	2-R-NV-0249	NV	03/09/09	CLR	N	N	N	VT-09-139
C2.F1.21.0001	2-R-CA-1571	CA	03/12/09	CLR	N	N	N	VT-09-176
C2.F1.21.0002	2-R-CA-1575	CA	03/12/09	CLR	N	N	N	VT-09-174
C2.F1.21.0024	2-R-NI-1672	NI	03/12/09	CLR	N	N	N	VT-09-144
C2.F1.21.0039	2-R-NS-1171	NS	03/13/09	CLR	N	N	N	VT-09-156
C2.F1.21.0040	2-R-NS-1172	NS	03/13/09	CLR	N	N	N	VT-09-157
C2.F1.21.0042	2-R-NS-1166	NS	03/13/09	CLR	N	N	N	VT-09-159
C2.F1.21.0043	2-R-NS-1167	NS	03/13/09	CLR	N	N	N	VT-09-160
C2.F1.21.0044	2-R-NS-1168	NS	03/13/09	CLR	N	N	N	VT-09-158
C2.F1.21.0053	2-R-NS-1219	NS	04/01/09	CLR	N	N	N	VT-09-181
C2.F1.21.0064	2-R-NV-1089	NV	03/12/09	CLR	N	N	N	VT-09-152
C2.F1.21.0065	2-R-NV-1090	NV	03/12/09	CLR	N	N	N	VT-09-153

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.F1.21.0079	2-A-NV-3684	NV	04/03/09	CLR	N	N	N	VT-09-186
C2.F1.21.0418	2-R-NV-1139	NV	04/04/09	CLR	N	N	N	VT-09-222
C2.F1.21.0435	2-R-NI-1686	NI	04/04/09	CLR	N	N	N	VT-09-221
C2.F1.22.0014	2-R-ND-0143	ND	03/09/09	CLR	N	N	N	VT-09-140
C2.F1.22.0015	2-R-ND-0149	ND	03/09/09	CLR	N	N	N	VT-09-142
C2.F1.22.0038	2-R-SM-1554	SM	03/11/09	CLR	N	N	N	VT-09-167
C2.F1.30.0049	2-R-TE-0022	TE	03/26/09	CLR	N	N	N	VT-09-177
C2.F1.31.0001	2-R-CA-0029	CA	03/11/09	CLR	N	N	N	VT-09-164
C2.F1.31.0002	2-R-CA-0031	CA	03/11/09	CLR	N	N	N	VT-09-165
C2.F1.31.0003	2-R-CA-0032	CA	03/11/09	CLR	N	N	N	VT-09-166
C2.F1.31.0007	2-R-CA-0024	CA	04/04/09	CLR	N	N	N	VT-09-188
C2.F1.31.0031	2-R-TE-0020	TE	04/03/09	CLR	N	N	N	VT-09-187
C2.F1.32.0018	2-R-VN-0047	VN	04/07/09	CLR	N	N	N	VT-09-203
C2.F1.32.0019	2-R-VN-0052	VN	04/07/09	CLR	N	N	N	VT-09-204

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.F1.32.0021	2-R-VN-0006	VN	03/24/09	CLR	N	N	N	VT-09-179
C2.F1.32.0022	2-R-VN-0011	VN	03/24/09	CLR	N	N	N	VT-09-180
C2.F1.32.0024	2-R-YC-0023	YC	03/09/09	CLR	N	N	N	VT-09-141
C2.F1.40.0029	2KCPA1-SUPPORT	KC	03/18/09	CLR	N	N	N	VT-09-168
C2.F1.40.0031	2MDCAPA-SUPPORT	CA	03/26/09	CLR	N	N	N	VT-09-178
C2.F1.40.0103	2PZR-SUPPORT	NC	03/12/09	CLR	N	N	N	VT-09-154
C2.G2.1.0001	2SM38-01	SM	03/22/09	CLR	N	N	N	MT-09-023
		SM	03/23/09	CLR	N	N	N	UT-09-113
C2.G2.1.0002	2SM-4B-A	SM	03/22/09	CLR	N	N	N	MT-09-024
		SM	03/23/09	CLR	N	N	N	UT-09-114
C2.G2.1.0003	2SM38-03	SM	03/22/09	CLR	N	N	N	MT-09-027
		SM	03/23/09	CLR	N	N	N	UT-09-115
C2.G2.1.0004	2SM-5B-A	SM	03/22/09	CLR	N	N	N	MT-09-028
		SM	03/23/09	CLR	N	N	N	UT-09-116
C2.G2.1.0005	2SM38-05	SM	03/22/09	CLR	N	N	N	MT-09-029

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.G2.1.0005	2SM38-05	SM	03/23/09	CLR	N	N	N	UT-09-117
C2.G2.1.0006	2SM38-14	SM	03/22/09	CLR	N	N	N	MT-09-022
		SM	03/23/09	CLR	N	N	N	UT-09-118
C2.G2.1.0007	2SM-7B-A	SM	03/22/09	CLR	N	N	N	MT-09-025
		SM	03/23/09	CLR	N	N	N	UT-09-119
C2.G2.1.0008	2SM38-15	SM	03/22/09	CLR	N	N	N	MT-09-026
		SM	03/23/09	CLR	N	Y	N	UT-09-120
								Indications # 1 and 2 determined to be geometric reflectors due to root geometry.
C2.G2.1.0009	2SM-8B-A	SM	03/18/09	CLR	N	N	N	MT-09-019
		SM	03/18/09	CLR	N	N	N	UT-09-097
C2.G2.1.0010	2SM40-01	SM	03/18/09	CLR	N	N	N	MT-09-020
		SM	03/18/09	CLR	N	N	N	UT-09-098
C2.G2.1.0011	2SM42-01	SM	03/19/09	CLR	N	N	N	MT-09-021
		SM	03/19/09	CLR	N	N	N	UT-09-099
C2.G4.1.0001	2NI28-1	NI	03/05/09	CLR	N	N	N	UT-09-090
C2.G6.2.0001	2PZR-MANWAY	NC	03/12/09	CLR	N	N	N	VT-09-155

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.G7.2.0001	2RPV-202-121ASE	NC	04/02/09	CLR	N	N	N	CNS2-RPV-DMW-A
C2.G7.2.0002	2RPV202-121BSE	NC	04/02/09	CLR	N	N	N	CNS2-RPV-DMW-B
C2.G7.2.0003	2RPV202-121CSE	NC	04/04/09	CLR	N	N	N	CNS2-RPV-DMW-C
C2.G7.2.0004	2RPV202-121DSE	NC	04/03/09	CLR	N	N	N	CNS2-RPV-DMW-D
C2.G8.2.0001	2RPV202-121ASE	NC	04/05/09	CLR	N	N	N	VT-09-223
C2.G8.2.0002	2RPV-202-121BSE	NC	04/05/09	CLR	N	N	N	VT-09-224
C2.G8.2.0003	2RPV-202-121CSE	NC	04/05/09	CLR	N	N	N	VT-09-225
C2.G8.2.0004	2RPV-202-121DSE	NC	04/05/09	CLR	N	N	N	VT-09-226
C2.H3.1.0004	2ND22-1	ND	02/26/09	CLR	N	Y	N	UT-09-065 RT Film reviewed and determined to be metallurgical anomaly due to weld repair.
C2.H3.1.0005	2ND22-2	ND	02/26/09	CLR	N	N	N	UT-09-066
C2.H3.1.0006	2ND34-1	ND	02/26/09	CLR	N	N	N	UT-09-067
C2.Q1.1.0001	2NC8-3V	NC	03/31/09	CLR	N	N	N	UT-09-136
C2.Q1.1.0002	2NC117-7V	NC	03/19/09	CLR	N	N	N	UT-09-111
C2.Q1.1.0003	2NC44-28V	NC	03/19/09	CLR	N	N	N	UT-09-104

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.Q1.1.0004	2NC119-1V	NC	03/19/09	CLR	N	N	N	UT-09-102
C2.Q1.1.0005	2NC163-1V	NC	03/19/09	CLR	N	N	N	UT-09-112
C2.Q1.1.0006	2NC112-5V	NC	03/19/09	CLR	N	N	N	UT-09-103

5.0 Owner's Report for Repair / Replacement Activities

As required by the applicable code, records of Class 1 and Class 2 Repair and Replacement work are included in the NIS-2 forms in this section.

The NIS-2 forms included in this section were completed for work performed during this report period.

No items were determined to have work performed outside this report period.

The individual work request documents and manufacturers' data reports are on file at Catawba Nuclear Station.

5.1 Class 1 and 2 Preservice Examinations

As required by the applicable code, Preservice Inspection (PSI) Examinations were performed on ISI Class 1 and 2 Items during this report period. All Class 1 and 2 PSI Examination Data shown in the listing below is on file at Catawba Nuclear Station.

Work Order	Code Class	Sys	MOD No.	Description of Work	Repair, Replacement	Flaw Indication Maint/ ISI (*Yes No)	Owner Final	ANII Final
1778824-01	A	NC	NA	Valve 2NC005 BMR	Repair	No	2/9/2009	3/23/2009
1779932-06	A	NI	NA	2NI352 Body to Bonnet Seal Weld	Repair	No	4/13/2009	5/20/2009
1820756-03	A	NC	NA	Valve 2NC-1	Replacement	No	4/23/2009	5/18/2009
1820754-03	A	NC	NA	Valve 2NC-2	Replacement	No	4/23/2009	5/18/2009
1820755-03	A	NC	NA	Valve 2NC-3	Replacement	No	4/23/2009	5/14/2009
1722494-43	A	NC	CD200710	Valve 2NC29	Replacement	No	4/30/2009	5/11/2009
1722492-60	A	NC	CD200710	Valve 2NC27	Replacement	No	4/30/2009	5/6/2009
1820477-01	A	NC	NA	Bolting for RCP 2A	Replacement	No	4/30/2009	5/13/2009
1722494-33	A	NC	CD200710	Bolting for 2NC-29	Replacement	No	5/11/2009	5/18/2009
1722492-50	A	NC	CD200710	Bolting for 2NC-27	Replacement	No	5/11/2009	5/18/2009
1819297-40	A	NC	CD201489	RV "A" Hot Leg Base Metal Repair	Repair	No	6/11/2009	6/11/2009
1819307-24	A	NC	CD201489	RV "B" Hot Leg Weld Overlay	New	No	6/3/2009	6/3/2009
1819309-23	A	NC	CD201489	RV "C" Hot Leg Weld Overlay	New	No	6/3/2009	6/3/2009
1819310-23	A	NC	CD201489	RV "D" Hot Leg Weld Overlay	New	No	6/3/2009	6/3/2009
1709840-01	B	NV	NA	Bonnet Bolt for 2NV-472	Replacement	No	2/20/2008	2/26/2008
1709841-01	B	NV	NA	Bonnet Bolt for 2NV-471	Replacement	No	2/20/2008	2/26/2008
1709855-01	B	NV	NA	Bonnet Bolt for 2NV-170	Replacement	No	2/20/2008	2/26/2008
1820457-01	B	CF	NA	2CF-167 Valve Disc	Replacement	No	4/6/2009	5/20/2009
1820456-01	B	CF	NA	2CF-168 Valve Disc	Replacement	No	4/6/2009	5/20/2009
1820877-01	B	CF	NA	2CF-169 Valve Disc	Replacement	No	4/6/2009	5/20/2009
1820876-01	B	CF	NA	2CF-166 Valve Disc	Replacement	No	4/6/2009	5/13/2009
1861008-03	B	NV	NA	2NV-79 Body to Bonnet Seal Weld	Repair	No	4/13/2009	5/20/2009
1861490-01	B	NI	NA	Mechanical Joint Bolting	Replacement	No	4/13/2009	5/20/2009
1126797-02	B	NV	NA	2NV190 Valve Cover Bolt	Replacement	No	4/13/2009	5/20/2009
1829884-02	B	ND	NA	2ND-58B Valve Disc	Replacement	No	4/13/2009	5/20/2009
1862049-01	B	ND	NA	2NDFE5040 Bolting	Replacement	No	4/21/2009	5/19/2009
1785307-04	B	NV	NA	Valve 2NV-186A Disc	Replacement	No	4/21/2009	5/19/2009
1773946-02	B	CA	NA	Valve 2CA-189	Replacement	No	4/21/2009	4/22/2009
1731351-11	B	NI	NA	Valve 2NI185A	Replacement	No	4/23/2009	5/14/2009
1822508-03	B	NV	NA	Valve 2NV222	Replacement	No	4/29/2009	4/30/2009
1865452-05	B	NI	NA	Valve 2NI118A Bonnet	Replacement	No	4/29/2009	5/14/2009
1858617-03	B	ND	NA	Valve 2ND59B Yoke	Replacement	No	4/29/2009	4/30/2009
1822507-02	B	NV	NA	Valve 2NV205	Replacement	No	4/29/2009	4/30/2009
1823041-01	B	NV	NA	Bolting for 2NV Pump 2A	Replacement	No	5/11/2009	5/18/2009
1777493-02	B	NV	NA	Bolting for 2NV-200	Replacement	No	5/11/2009	5/18/2009

1808189-06	NF	WN	CD201520	Install WN Supports	Replacement	No	2/15/2009	3/23/2009
1820763-06	NF	FW	NA	S/R 2-R-FW-003	Replacement	No	3/30/2009	4/6/2009
1791034-54	NF	RN	NA	S/R 2-A-RN-3213	Replacement	No	3/30/2009	4/6/2009
1796276-51	NF	RN	CD201700	S/R 2-A/RN/3209	Replacement	No	3/30/2009	4/6/2009
1821155-03	NF	NV	NA	S/R 2-R-NV-358 Bolting	Replacement	No	3/31/2009	4/6/2009
1829884-05	NF	ND	NA	S/R 2-R-ND-406 Pivot Pin	Replacement	No	3/31/2009	4/6/2009
1863602-01	NF	BB	NA	2-R-BB-1081 Snubber	Replacement	No	4/6/2009	5/13/2009
1731351-27	NF	ND	CD201139	S/R 2-R-ND--148	Replacement	No	4/21/2009	5/13/2009
1722492-69	NF	NV	CD200710	S/R 2-R-NV-1741	Replacement	No	4/28/2009	4/30/2009
1846634-01	NF	NC	CD201489	RCP Lateral Support	Repair	No	4/29/2009	5/14/2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 5/11/09 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 Energy 3a Work Order # 1722492-50
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # CD200710
   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, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bolting	NA	NA	NA	For valve 2NC-27	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NC27 Bonnet Bolts._

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

9. Remarks _ Code Cases __NONE_

(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 _____ TECH SPEC II Date 5/11 ,20 09
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 NC and SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-18 to 5-18 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.

_____ Commissions SC 233 INA
Inspector's Signature

Date 5-18 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 5/11/09 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 Energy 3a Work Order # 1722494-33
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # CD200710
   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, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bolting	NA	NA	NA	For valve 2NC-29	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NC29 Bonnet Bolts._

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

9. Remarks _ Code Cases __NONE_ _____

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(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 II Date 5/11 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-18-08 to 5-18-09 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.

Kenneth Werthe Commissions SC 237 ENA
Inspector's Signature

Date 5-18 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 3/9/09 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 Energy 3a Work Order # 1778824-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Base Metal Repair	Duke Energy	C-2NC	171	Base Metal Repair #E371A-19-6-BMR-1 on valve 2NC005	2008	Corrected	Yes
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Weld Repair on Valve 2NC005_

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

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 II Date 3/9 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 4-9-08 to 4-23-09 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.

Kenneth Worthy Commissions SC 233 FNA
Inspector's Signature

Date 3-23 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/13/09 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 Energy 3a Work Order # 1779932-06
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   Expiration Date N/A
4. Identification of System NI SAFETY INJECTION SYSTEM Class A
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Seal Weld	Duke Energy	C-2NI	172	Body to Bonnet Seal Weld for valve 2NI-352	2009	Installed	Yes
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NI-352_

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

9. Remarks _ Code Cases __NONE_ _____

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(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 II Date 4/13 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-20-09 to 5-20-09 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.

Kenneth Wenthold Commissions SC 2337 INA
Inspector's Signature

Date 5-20 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/30/09 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 Energy 3a Work Order # 1820477-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bolting	NA	NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Inspect RCP 2A Seal_

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

9. Remarks _ Code Cases __NONE_

(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 II Date 4/30 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 3-23-09 to 5-13-09 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.

Kenneth Worthy Commissions SC 233 INA
Inspector's Signature

Date 5-13 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/30/09 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 Energy 3a Work Order # 1722492-60
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # CD200710
   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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Pipe/Fitting	Duke Energy	C-2NC	171	2NC System	1985	Installed	Yes
B	Valve	Fisher	6306295	3920	Valve tag 2NC27	1979	Removed	Yes
C	Valve	Fisher	18059880	NA	Valve tag 2NC27	2008	Installed	Yes
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NC27_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 2245 psig Test Temp. 557 deg.F.

9. Remarks _ Code Cases __NONE_ _____

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(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 _____ TECH SPEC II Date 4/30 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 12-11-08 to 5-6-09 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.

_____ Commissions SC 233 INA
Inspector's Signature

Date 5-6 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/30/09 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 Energy 3a Work Order # 1722494-43
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # CD200710
   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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Pipe/Fitting	Duke Energy	C-2NC	171	2NC System	1985	Installed	Yes
B	Valve	Fisher	6306297	3922	Valve tag 2NC29	1979	Removed	Yes
C	Valve	Fisher	18059879	NA	Valve tag 2NC29	2008	Installed	Yes
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NC29_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 2245 psig Test Temp. 557 deg.F.

9. Remarks _ Code Cases __NONE_ _____

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(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 S Lott TECH SPEC II Date 4/30 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 12-16-08 to 5-11-09 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.

Kenneth Boutin Commissions NB 12410 INA
Inspector's Signature

Date 5-11 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 5/12/09 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 Energy 3a Work Order # 1819297-40
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # CD201489
   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, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Pipe	Duke Energy	C-2NC	171	Base metal repair on the Reactor Vessel "A" Hot Leg.	1985	Corrected	Yes
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Perform Base Metal Repair RV Hot Leg "A"_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 2244 psig Test Temp. 556 deg.F.

9. Remarks _ Code Cases __NONE_Ref. PIP C-09-1818_____

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(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 E. Smith TECH SPEC II Date 6/11 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 6-11-09 to 6-11-09 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.

Kenneth D. Corbett Commissions SC 233 INA
Inspector's Signature

Date 6-11-,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 6/3/09 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 Energy 3a Work Order # 1819307-24
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # CD201489
   Expiration Date N/A
4. Identification of System NC REACTOR COOLANT SYSTEM Class A
5. (a) Applicable Construction Code See Comments. _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI.	1985	Installed	Yes
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Reactor Vessel "B" Hot Leg Weld Overlay_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 2244 psig Test Temp. 556 deg.F.

9. Remarks _ Code Cases ___-_N 2142-2, Relief Request 08-CN-002. Construction Codes ASME Section III, 1971 Edition thru Winter 1972 Addenda and ASME Code, Section III, 1974 Edition, no Addenda for Class 1 piping were reconciled to ASME Section III, 2001 Edition (thru 2003 Addenda). _____

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(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 L Smith TECH SPEC II Date 6/3 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 6-3-09 to 6-3-09 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.

Kenneth Wentland Commissions SC 2337 I N A
Inspector's Signature

Date 6-3 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 6/3/09 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 Energy 3a Work Order # 1819309-23
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # CD201489
   Expiration Date N/A
4. Identification of System NC REACTOR COOLANT SYSTEM Class A
5. (a) Applicable Construction Code See Comments. _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "C" Hot Leg performed by WSI.	1985	Installed	Yes
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Reactor Vessel "C" Hot Leg Weld Overlay_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 2244 psig Test Temp. 556 deg.F.

9. Remarks _ Code Cases ___-_N 2142-2, Relief Request 08-CN-002. Construction Codes ASME Section III, 1971 Edition thru Winter 1972 Addenda and ASME Code, Section III, 1974 Edition, no Addenda for Class 1 piping were reconciled to ASME Section III, 2001 Edition (thru 2003 Addenda). _____

_ _____

_ _____

(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 S Smith TECH SPEC II Date 6/3 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 6-3-09 to 6-3-09 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.

Kenneth Barthel Commissions SC 233 Ins
Inspector's Signature

Date 6-3 ,2009

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 6/3/09 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 # 1819310-23
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # CD201489
   Expiration Date N/A
4. Identification of System NC REACTOR COOLANT SYSTEM Class A
5. (a) Applicable Construction Code See Comments.
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "D" Hot Leg performed by WSI	1985	Installed	Yes
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Reactor Vessel "D" Hot Leg Weld Overlay_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 2244 psig Test Temp. 556 deg.F.

9. Remarks _ Code Cases ___-_N 2142-2, Relief Request 08-CN-002. Construction Codes ASME Section III, 1971 Edition thru Winter 1972 Addenda and ASME Code, Section III, 1974 Edition, no Addenda for Class 1 piping were reconciled to ASME Section III, 2001 Edition (thru 2003 Addenda). _____

_ _____

_ _____

(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 Gitto TECH SPEC II Date 6/3 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 6-3-09 to 6-3-09 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.

Kenneth Arthur Commissions SC 2377 I NB
Inspector's Signature

Date 6-3 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/23/09 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 Energy 3a Work Order # 1820754-03
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   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, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Valve	Dresser	BS-02872	NA	Valve tag 2NC-2	1980	Removed	Yes
B	Valve	Dresser	BS-02870	NA	Valve tag 2NC-2	1979	Installed	Yes
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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-3_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 2233 psig Test Temp. 652.1 deg.F.

9. Remarks _ Code Cases __NONE_

(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 II Date 4/23 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-18-09 to 5-18-09 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.

Kenneth Wachter Commissions SC 233 I NA
Inspector's Signature

Date 5-18 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/23/09 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 Energy 3a Work Order # 1820755-03
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Valve	Dresser	BS-02870	NA	Valve tag 2NC-3	1980	Removed	Yes
B	Valve	Dresser	BS-02868	NA	Valve tag 2NC-3	1979	Installed	Yes
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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-3_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 2233 psig Test Temp. 652.1 deg.F.

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 _____ TECH SPEC II Date 4/23 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-14-05 to 5-14-09 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.

_____ Commissions SC 233 INA
Inspector's Signature

Date 5-14 ,20 06

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/23/09 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 Energy 3a Work Order # 1820756-03
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Valve	Dresser	BS-02871	NA	Valve tag 2NC-1	1980	Removed	Yes
B	Valve	Dresser	BS-02866	NA	Valve tag 2NC-1	1972	Installed	Yes
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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-1_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 2233 psig Test Temp. 652.1 deg.F.

9. Remarks _ Code Cases __NONE_

(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 _____ TECH SPEC II Date 4/23 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-18-09 to 5-18-09 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.

Kenneth Wentland Commissions SC 233 INA
Inspector's Signature

Date 5-18 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/13/09 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 Energy 3a Work Order # 1126797-02
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   Expiration Date N/A
4. Identification of System Class B

NV CHEMICAL VOLUME CONTROL SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bolting	NA	Na	NA	Valve Cover Bolt- SA564 for valve 2NV-190	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NV-190 Cover Bolt_

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

9. Remarks _ Code Cases __NONE_

(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 II Date 4/13 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-20-09 to 5-20-09 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.

Kenneth Chatfield Commissions SC 233 I NA
Inspector's Signature

Date 5-20 ,20 09

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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 2/26/08 Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1709840-01

3b NSM or MN # NA

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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bonnet Bolt	NA	NA	NA	Hex Bolt - SA564 for valve 2NV-472	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NV-472 Bonnet Bolt_

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

9. Remarks _ Code Cases __NONE_

(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 Scott TECH SPEC II Date 2/20 ,20 08
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 NC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 2-5-08 to 2-26-08 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 TNA
Inspector's Signature

Date 2-26 ,20 08

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 2/26/08 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 # 1709841-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   Expiration Date N/A
4. Identification of System Class B

NV CNEMICAL VOLUME CONTROL SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bonnet Bolt	NA	NA	NA	Hex Bolt - SA564 for valve 2NV-471	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NV-471 Bonnet Bolt_

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

9. Remarks _ Code Cases __NONE_

(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 _____ TECH SPEC II Date 2/20 ,20 08
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 NC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 2-5-08 to 2-26-08 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 1 N/A
Inspector's Signature

Date 2-26 ,20 08

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 2/26/08 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 # 1709855-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   Expiration Date N/A
4. Identification of System Class B
   NV CNEMICAL VOLUME CONTROL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bonnet Bolt	NA	NA	NA	Hex Bolt - SA564 for valve 2NV-170	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NV-170 Bonnet Bolt_

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

9. Remarks _ Code Cases __NONE_

(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 _____ TECH SPEC II Date 2/20 ,2008
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 NC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 2-6-08 to 2-26-08 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.

_____ Commissions NC978 I,N,A
Inspector's Signature

Date 2-26 ,20 08

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY — 1a Date 4/23/09 — 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 Energy — 3a Work Order # 1731351-11
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A — 3b NSM or MN # CD201139
   Expiration Date N/A
4. Identification of System NI SAFETY INJECTION SYSTEM — Class B
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Valve	Westinghouse	18000GM84 F03/100	W/05/07	Valve 2NI185A	1977	Removed	Yes
B	Valve	Velan	082045	NA	Valve 2NI185A	NA	Installed	Yes
C	Pipe Welds	Duke Energy	C-2NI	172	2ND3-17 2NI28-10	2009	Installed	Yes
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NI185A_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 281 psig Test Temp. 109 deg.F.

9. Remarks _ Code Cases ___NONE_Weld 2NI28-10 cannot be pressure test due to this side of the valve is open to atmosphere. _____

_ _____

_ _____

(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 Seth TECH SPEC II Date 5/14 ,2009
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 SC and employed by HSB I AND I Company of Connecticut have inspected the components described in this Owners Report during the period 7-9-09 to 7-9-09 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.

Kenneth Dalton Commissions SC 233 I,W A
Inspector's Signature

Date 7-9 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/21/09 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 Energy 3a Work Order # 1773946-02
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN #
   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, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Valve	Kerotest	AH P2-8	NA	Valve tag 2CA-189	1977	Removed	Yes
B	Valve	Kerotest	NU4-2	11710	Valve tag 2CA-189	1976	Installed	Yes
C	Pipe/Fitting	Duke Energy	C-2CA	159	2CA System Piping	1985	Installed	Yes
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2CA189_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 1074 psig Test Temp. 335 deg.F.

9. Remarks _ Code Cases __NONE_

(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 II Date 4/21 ,2009
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 _____ and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 4-1-09 to 4-22-09 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.

Kenneth Martin Commissions SC 233 INA
Inspector's Signature

Date 4-22 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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 CHEMICAL VOLUME CONTROL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 5/11/09

Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1777493-02

3b NSM or MN # NA

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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bolting	NA	NA	NA	For valve 2NV-200	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NV200 Cover Bolts_

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

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 II Date 5/11 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-18-09 to 5-18-09 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.

Kenneth Butler Commissions SC 233 INA
Inspector's Signature

Date 5-18 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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 CHEMICAL VOLUME CONTROL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 4/21/09

Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1785307-04

3b NSM or MN # NA

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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Disc	Kerotest	33163	NA	Valve tag 2NV-186A	1997	Removed	No
B	Disc	Kerotest	26395-1-1	NA	Valve tag 2NV-186A	NA	Installed	No
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NV186A_

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

9. Remarks _ Code Cases __NONE_

(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 II Date 4/21 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-19-09 to 5-19-09 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.

Kenneth Boutin Commissions SC 233 I N A
Inspector's Signature

Date 5-19 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/6/09 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 Energy 3a Work Order # 1820456-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   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, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Disc	Atwood/ Morrill	NA	NA	Valve 2CF-168	NA	Removed	No
B	Disc	Atwood/ Morrill	Y25	NA	Valve 2CF-168	2006	Installed	No
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2CF-168_

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

9. Remarks _ Code Cases __NONE_

(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 II Date 4/6 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-20-09 to 5-20-09 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.

Kenneth Dunkley Commissions SC 233 INA
Inspector's Signature

Date 5-20 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/6/09 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 Energy 3a Work Order # 1820457-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Disc	Atwood/ Morrill	NA	NA	Valve 2CF-167	NA	Removed	No
B	Disc	Atwood/ Morrill	M96	NA	Valve 2CF-167	2006	Installed	No
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2CF-167_

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

9. Remarks _ Code Cases __NONE_

(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 S Sth TECH SPEC II Date 4/6 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-20-09 to 5-20-09 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.

Kenneth Boarhit Commissions SC2373 N B
Inspector's Signature

Date 5-20 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/6/09 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 Energy 3a Work Order # 1820876-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   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, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Disc	NA	M93	NA	Valve 2CF-166	2000	Removed	No
B	Disc	Atwood/Morrill	Y-24	NA	Valve 2CF-166	2006	Installed	No
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2CF-166_

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

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 II Date 4/6 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-13-05 to 5-13-06 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.

Kenneth Wattel Commissions SC 237 INN
Inspector's Signature

Date 5-13 ,20 06

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/6/09 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 Energy 3a Work Order # 1820877-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Disc	Atwood/ Morrill	M94	NA	Valve 2CF-169	2000	Removed	No
B	Disc	Atwood/ Morrill	Y23	NA	Valve 2CF-169	2006	Installed	No
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2CF-169_

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

9. Remarks _ Code Cases __NONE_ _____

_ _____

_ _____

(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 S Satt TECH SPEC II Date 4/6 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-20-09 to 5-20-09 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.

Kenneth Bartlett Commissions SC 233 I NB
Inspector's Signature

Date 5-20 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/29/09 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 Energy 3a Work Order # 1822507-02
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   Expiration Date N/A
4. Identification of System Class B

NV CHEMICAL VOLUME CONTROL SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Valve	Dresser	TJ99387	1963	Valve tag 2NV205	1994	Removed	Yes
B	Valve	Dresser	TG80195	1899	Valve tag 2NV205	1986	Installed	Yes
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NV205_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 17.5 psig Test Temp. 86.9 deg.F.

9. Remarks _ Code Cases __NONE_

(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 II Date 4/29 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 4-12-09 to 4-30-09 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.

Kenneth Bartlett Commissions SC 233 INA
Inspector's Signature

Date 4-30 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/29/09 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 Energy 3a Work Order # 1822508-03
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   Expiration Date N/A
4. Identification of System Class B

NV CHEMICAL VOLUME CONTROL SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Valve	Dresser	TG80175	1928	Valve tag 2NV222	1986	Removed	Yes
B	Valve	Dresser	TG47972	1833	Valve tag 2NV222	1984	Installed	Yes
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NV222_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 20.9 psig Test Temp. 65.3 deg.F.

9. Remarks _ Code Cases __NONE_

(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 _____ TECH SPEC II Date 4/29 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 4-30-09 to 4-30-09 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.

_____ Commissions SC 2337 INA
Inspector's Signature

Date 4-30 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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 CHEMICAL VOLUME CONTROL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 5/11/09

Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1823041-01

3b NSM or MN # NA

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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bolting	NA	NA	Na	For 2NV Pump 2A	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NV Pump 2A Bolting_

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

9. Remarks _ Code Cases __NONE_

(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 II Date 5/11 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-18-09 to 5-18-09 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.

Kenneth Rentler Commissions SC 233 INA
Inspector's Signature

Date 5-18 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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
   ND RESIDUAL HEAT REMOVAL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 4/11/09

Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1829884-02

3b NSM or MN # NA

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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Disc	Flowserve	NA	NA	Original Disc in valve 2ND-058B	NA	Removed	No
B	Disc	Flowserve	NA	NA	Disc UTC #01921981 for valve 2ND-058B	NA	Installed	No
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2ND-058D_

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

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 L Smith TECH SPEC II Date 4/13 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-20-09 to 5-20-09 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.

Kenneth Austin Commissions SC 233 ENA
Inspector's Signature

Date 5-20 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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
   ND RESIDUAL HEAT REMOVAL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 4/29/09 Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1858617-03

3b NSM or MN # NA

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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Valve Yoke	Kerotest	NA	NA	For valve 2ND59B	NA	Removed	No
B	Valve Yoke	Kerotest	314446	NA	For valve 2ND59B	NA	Installed	No
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2ND59B_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 251 psig Test Temp. 93 deg.F.

9. Remarks _ Code Cases __NONE_

(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 Scott TECH SPEC II Date 4/29 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 4-30-09 to 4-30-09 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.

Kenneth Monthei Commissions SC 233 I NA
Inspector's Signature

Date 4-30 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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 CHEMICAL VOLUME CONTROL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 4/13/09 Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1861008-03

3b NSM or MN # NA

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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Seal Weld	Duke Energy	C-2NV	170	Body to Bonnet Seal Weld for valve 2NV-79	2009	Installed	Yes
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NV-79_

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

9. Remarks _ Code Cases __NONE_

(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 II Date 4/13 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 3-11-09 to 5-20-09 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.

Kenneth Authier Commissions SC 233 I NB
Inspector's Signature

Date 5-20 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/13/09 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 Energy 3a Work Order # 1861490-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   Expiration Date N/A
4. Identification of System NI SAFETY INJECTION SYSTEM Class B
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bolting	NA	NA	NA	Mechanical Joint Bolting CN-2NI-22 MJ4	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Bolting_

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

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 II Date 4/13 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-20-09 to 5-20-09 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.

Kenneth Wentworth Commissions SC 2337 INB
Inspector's Signature

Date 5-20 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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
   ND RESIDUAL HEAT REMOVAL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 4/21/09

Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1862049-01

3b NSM or MN # NA

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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bolting	NA	NA	NA	For 2NDFE5040	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Bolting for 2NDFE5040_

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

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 II Date 4/21 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-19-09 to 5-19-09 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.

Kenneth Arthur Commissions SC 233 INN
Inspector's Signature

Date 5-19 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/29/09 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 Energy 3a Work Order # 1865452-05
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   Expiration Date N/A
4. Identification of System NI SAFETY INJECTION SYSTEM Class B
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Valve Bonnet	Borg Warner	NA	NA	For valve 2NI118A	NA	Removed	No
B	Valve Bonnet	Borg Warner	38381	NA	For valve 2NI118A	NA	Installed	No
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2NI118A_

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt ☐
Pressure 1560 psig Test Temp. 81 deg.F.

9. Remarks _ Code Cases__NONE_

(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 TECH SPEC II Date 4/28 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-14-09 to 5-14-09 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.

Kenneth Walther Commissions SC 233 INA
Inspector's Signature

Date 5-14 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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 CHEMICAL VOLUME CONTROL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 4/28/09 Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1722492-69

3b NSM or MN # CD200710

Class NF

	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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Plate	NA	NA	NA	For S/R 2-R-NV-1741	NA	Installed	No
B	Weld	Duke Energy	C-2NV	170	Weld 2-R-NV-1741-4	2009	Installed	Yes
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 S/R 2-R-NV-1741_

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

9. Remarks _ Code Cases __NONE_

(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 L Smith TECH SPEC II Date 4/28 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 3-26-09 to 4-30-09 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.

Kenneth Wentzel Commissions 4-30-09 NC1477 INA
Inspector's Signature

Date 4-30 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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
   ND RESIDUAL HEAT REMOVAL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 4/21/09

Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1731351-27

3b NSM or MN # CD201139

Class NF

	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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Rear Bracket	NA	NA	NA	For S/R 2-R-ND-0148	NA	Installed	No
B	Weld	Duke Energy	C-2ND	154	2-R-ND-0148-3	2009	Installed	Yes
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 S/R 2-R-ND-0148_

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

9. Remarks _ Code Cases __NONE_

(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 II Date 4/21 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 2-18-05 to 5-13-09 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.

Kenneth Barthel Commissions SC 233
Inspector's Signature

Date 5-13 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 3/30/09 Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1791034-54

3b NSM or MN # NA

Class NF

	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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Snubber	PSA	20813	NA	2-A-RN-3213	1994	Removed	Yes
B	Snubber	Lisega	30700002/0037	NA	2-A-RN-3213	2007	Installed	Yes
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2-A-RN-3213 Snubber Test_

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

9. Remarks _ Code Cases __NONE_

(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 Scott TECH SPEC II Date 3/30 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 4-4-09 to 4-4-09 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.

Kenneth Authut Commissions SC 2338 I NB
Inspector's Signature

Date 4-4 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 3/30/09 Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units☐)

3a Work Order # 1796276-51

3b NSM or MN # CD201700

Class NF

	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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Snubber	PSA	2812	NA	2-A-RN-3209	1994	Removed	Yes
B	Snubber	Lisega	30700002/0041	NA	2-A-RN-3209	2007	Installed	Yes
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2-A-RN-3209 Snubber Test_

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

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 II Date 3/30 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 4-4-05 to 4-4-09 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.

Kenneth Doutit Commissions SC 233 INA
Inspector's Signature

Date 4-4 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 3/15/09 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 Energy 3a Work Order # 1808189-06
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # CD201520
   Expiration Date N/A
4. Identification of System WN DG Room Sump Pump Sys. Class NF
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	U Bolt, Hex Nuts	NA	NA	NA	For S/R 2-A-WN-3010, 2-A-WN-3012, 2-A-WN-3013	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Install WN Supports_

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

9. Remarks _ Code Cases __NONE_

(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 II Date 3/15 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 3-23-09 to 3-23-09 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.

Kenneth Authier Commissions SC 233 INA
Inspector's Signature

Date 3-23 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 3/30/09 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 Energy 3a Work Order # 1820763-06
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   Expiration Date N/A
4. Identification of System FW REFUELING WATER SYSTEM Class NF
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Snubber	PSA	11568	NA	2-R-FW-003	1981	Removed	Yes
B	Snubber	Lisega	30700524/002	NA	2-R-FW-003	2007	Installed	Yes
C	Snubber	PSA	11552	NA	2-R-FW-003	1981	Removed	Yes
D	Snubber	Lisega	30700525/003	NA	2-R-FW-003	2007	Installed	No
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2-R-FW-003 Snubber Test_

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

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 II Date 3/30 ,2009
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 _____ and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 4-3-09 to 4-3-09 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.

Kenneth A. Smith Commissions 6.C. 233 I N
Inspector's Signature

Date 4-3 ,2009

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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 CHEMICAL VOLUME CONTROL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 3/31/09

Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1821155-03

3b NSM or MN # NA

Class NF

	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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Bolting	NA	NA	NA	Bolting for S/R 2-R-NV-358	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Restore S/R 2-R-NV-139_

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

9. Remarks _ Code Cases __NONE_

(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 II Date 3/31 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 4-1-09 to 4-1-09 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.

Kenneth Mountain Commissions SC 233 C N A
Inspector's Signature

Date 4-1 ,20 06

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY
   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 Energy
   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
   ND RESIDUAL HEAT REMOVAL SYSTEM
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
6. Identification of Components Repaired or Replacement Components

1a Date 3/31/09 Sheet 1 of 1

2a Unit ☐ 1 ☒ 2 ☐ 3 ☐ Shared (specify Units ☐)

3a Work Order # 1829884-05

3b NSM or MN # NA

Class NF

	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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Pivot Pin	NA	NA	NA	For S/R 2-R-ND-406	NA	Installed	No
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 Restore S/R 2-R-ND-406_

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

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 _____ TECH SPEC II Date 3/31 ,20 09
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 4-3-09 to 4-3-09 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.

_____ Commissions SC 233 INA
Inspector's Signature

Date 4-7 ,20 08

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/29/09 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 Energy 3a Work Order # 1846634-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # CD201489
   Expiration Date N/A
4. Identification of System NC REACTOR COOLANT SYSTEM Class NF
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases _____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Welds	Duke Energy	C-2NC	171	Weld# RCP-2A-SHIM-Z2, RCP-2B-SHIM-Z2	2009	Installed	Yes
B							-	-
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 RCP Lateral Support_

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

9. Remarks _ Code Cases __NONE_ _____

_ _____

_ _____

(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 Seth TECH SPEC II Date 4/29 ,20 09
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 CONNECTICUT and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-14-09 to 5-14-09 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.

Kenneth Robitaille Commissions NB 12413
Inspector's Signature

Date 5-14-09 ,20 09

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner DUKE ENERGY 1a Date 4/6/09 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 Energy 3a Work Order # 1863602-01
   Address 526 S. Church St. Charlotte, N.C. 28201-1006
   Type Code Symbol Stamp N/A Authorization No. N/A 3b NSM or MN # NA
   Expiration Date N/A
4. Identification of System Class NF

BB STEAM GERATOR BLOWDOWN SYSTEM

5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code Cases_____
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 2000
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	Corrected, Removed or Installed	ASME Code Stamped (yes or no)
A	Snubber	PSA	13761	NA	S/R 2-R-BB-1081	1981	Removed	Yes
B	Snubber	Lisega	30800150/007	NA	S/R 2-R-BB-1081	2008	Installed	Yes
C							-	-
D							-	-
E							-	-
F							-	-

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. 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 2-R-BB=-1081_

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

9. Remarks _ Code Cases __NONE_ _____
_ _____
_ _____
(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 II Date 4/6 ,2009
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 SC and employed by **HSB I AND I Company of Connecticut** have inspected the components described in this Owners Report during the period 5-13-09 to 5-13-09 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.

Kenneth Abbott Commissions SC 233 INA
Inspector's Signature

Date 5-13 ,2009

6.0 *Pressure Testing*

This is a two-part summary of the pressure test completion status for Catawba Unit 2.

Part 1 shows the completion status for the first period of the third ten-year interval and Part 2 shows the completion status for the second period of the third ten-year interval.

There was no through-wall leakage observed during any of these pressure tests.

Part 1 – 1st Period

Table 6-1 shows the number of pressure test zones completed during the first period of the third ten-year interval.

Table 6-1 1st Period Specific Summary

Examination Category	*Test Requirement*	*Total Examinations Required For This Period*	*Total Examinations Credited For This Period*	*(%) Examinations Complete For This Period*
B-P	System Leakage Test (IWB-5220)	2	2	100%
C-H	System Leakage Test (IWC-5220)	32	32	100%

Table 6-2 shows the number of pressure test zones not included in the refueling outage EOC-15 Summary Report but completed before the end of the 1st Period.

Table 6-2 Specific Summary of Pending Examinations

Examination Category	*Test Requirement*	*Total Examinations Credited For Period Completion*
C-H	System Leakage Test (IWC-5220)	8

Table 6-3 shows a completion status of the 8 Class 2 (Category C-H) pressure tests required to complete the first period of the third ten-year interval.

Table 6-3 Detailed Class 2 - 1st Period Listing

	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Case(s) Used
1	2ND-001L-B	CN-ISIL3-2561-1.0	Complete	03/13/2008	None
		CN-ISIL3-2562-1.3	Complete	03/13/2008	None
		CN-ISIL3-2561-1.1	Complete	03/13/2008	None
		CN-ISIL3-2562-1.2	Complete	03/13/2008	None
		CN-ISIL3-2563-1.0	Complete	03/13/2008	None
		CN-ISIL3-2571-1.0	Complete	03/13/2008	None
		CN-ISIL3-2572-1.0	Complete	03/13/2008	None
2	2ND-002L-B	CN-ISIL3-2561-1.1	Complete	01/31/2008	None
		CN-ISIL3-2562-1.3	Complete	01/31/2008	None
		CN-ISIL3-2563-1.0	Complete	01/31/2008	None
		CN-ISIL3-2561-1.0	Complete	01/31/2008	None
		CN-ISIL3-2562-1.2	Complete	01/31/2008	None
		CN-ISIL3-2571-1.0	Complete	01/31/2008	None
		CN-ISIL3-2572-1.0	Complete	01/31/2008	None
3	2NI-003L-B	CN-ISIL3-2562-1.2	Complete	01/10/2008	None
		CN-ISIL3-2562-1.3	Complete	10/18/2007	None
4	2NS-002L-B	CN-ISIL3-2563-1.0	Complete	02/21/2008	None
5	2NV-004L-B	CN-ISIL3-2554-1.2	Complete	02/26/2008	None
6	2NV-005L-B	CN-ISIL3-2554-1.2	Complete	01/15/2008	None
7	2SA-001L-B	CN-ISIL3-2593-1.1	Complete	12/27/2007	None
8	2SA-001L-C	CN-ISIL3-2593-1.1	Complete	12/27/2007	None

Part 2 – 2nd Period

Table 6-4 shows the number of 2nd Period pressure test zones completed from refueling outage EOC-15 through refueling outage EOC-16.

Table 6-4 Outage Specific Summary		
Examination Category	***Test Requirement***	***Total Examinations Credited For This Outage***
B-P	System Leakage Test (IWB-5220)	1
C-H	System Leakage Test (IWC-5220)	24

Table 6-5 shows the number of pressure test zones completed during the second period of the third ten-year interval.

Table 6-5 Period Specific Summary				
Examination Category	***Test Requirement***	***Total Examinations Required For This Period***	***Total Examinations Credited For This Period***	***(%) Examinations Complete For This Period***
B-P	System Leakage Test (IWB-5220)	3	1	33%
C-H	System Leakage Test (IWC-5220)	33	24	73%

The Class 1 (Category B-P) pressure test zone is required each refueling outage. Table 6-6 shows a completion status of the Class 1 (Category B-P) pressure test zone conducted during refueling cycle EOC16.

Table 6-6 Detailed Class 1 Listing				
Zone Number	**Boundary Dwg**	**EOC16 Completion Status**	**EOC16 VT-2 Examination Date**	**Code Case(s) Used**
2NC-001L-A	CN-ISIL3-2553-1.0	Complete	04/17/2009	N-533-1
2NC-001L-A	CN-ISIL3-2553-1.1	Complete	04/17/2009	N-533-1
2NC-001L-A	CN-ISIL3-2554-1.0	Complete	04/17/2009	N-533-1 N-566-2
2NC-001L-A	CN-ISIL3-2554-1.5	Complete	04/17/2009	N-533-1
2NC-001L-A	CN-ISIL3-2562-1.0	Complete	04/17/2009	N-533-1
2NC-001L-A	CN-ISIL3-2562-1.1	Complete	04/17/2009	N-533-1
2NC-001L-A	CN-ISIL3-2562-1.2	Complete	04/17/2009	N-533-1 N-566-2
2NC-001L-A	CN-ISIL3-2562-1.3	Complete	04/17/2009	N-533-1
2NC-001L-A	CN-ISIL3-2561-1.0	Complete	04/17/2009	N-533-1
2NC-001L-A	CN-ISIL3-2561-1.1	Complete	04/17/2009	N-533-1

Class 2 (Category C-H) pressure test zones are required once each inspection period. Table 6-7 shows a completion status of Class 2 (Category C-H) pressure test zones required for the second period of the third ten-year interval.

Table 6-7 Detailed Class 2 – 2nd Period Listing

	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Case(s) Used
1	2BB-001L-B	CN-ISIL3-2565-2.6	Complete	04/17/2009	None
		CN-ISIL3-2572-1.4	Complete	04/17/2009	None
		CN-ISIL3-2580-1.0	Complete	04/17/2009	None
		CN-ISIL3-2584-1.0	Complete	04/17/2009	None
2	2CA-001L-B	CN-ISIL3-2584-1.0	Complete	04/17/2009	None
		CN-ISIL3-2591-1.1	Complete	04/17/2009	None
		CN-ISIL3-2592-1.1	Complete	04/17/2009	None
		CN-ISIL3-2593-1.0	Complete	04/17/2009	None
		CN-ISIL3-2593-1.1	Complete	04/17/2009	None
		CN-ISIL3-2593-1.7	Complete	04/17/2009	None
3	2FW-001L-B	CN-ISIL3-2554-1.7	Complete	02/11/2009	None
		CN-ISIL3-2563-1.0	Complete	02/11/2009	None
		CN-ISIL3-2571-1.0	Complete	02/11/2009	None
		CN-ISIL3-2554-1.2	Complete	02/11/2009	None
		CN-ISIL3-2561-1.0	Complete	02/11/2009	None
		CN-ISIL3-2562-1.2	Complete	02/11/2009	None
		CN-ISIL3-2570-1.0	Complete	02/11/2009	None
4	2FW-002L-B	CN-ISIL3-2571-1.0	Complete	02/10/2009	None
5	2NC-001L-A	CN-ISIL3-2553-1.2	Complete	04/17/2009	None
6	2NC-005L-B	CN-ISIL3-2553-1.0	Complete	04/17/2009	None
		CN-ISIL3-2572-1.0	Complete	04/17/2009	None
7	2NC-006L-B	CN-ISIL3-2553-1.1	Complete	04/17/2009	None
		CN-ISIL3-2572-1.0	Complete	04/17/2009	None
8	2ND-001L-B	CN-ISIL3-2561-1.0	Complete	03/11/2009	N-566-2
		CN-ISIL3-2561-1.1	Complete	03/10/2009	None
		CN-ISIL3-2562-1.2	Complete	03/10/2009	None
		CN-ISIL3-2562-1.3	Complete	03/11/2009	None
		CN-ISIL3-2563-1.0	Complete	03/10/2009	None
		CN-ISIL3-2571-1.0	Complete	03/10/2009	None
		CN-ISIL3-2572-1.0	Complete	03/10/2009	None
9	2ND-002L-B	CN-ISIL3-2561-1.0	Complete	03/10/2009	None
		CN-ISIL3-2561-1.1	Complete	03/11/2009	N-566-2
		CN-ISIL3-2562-1.3	Complete	03/11/2009	None
		CN-ISIL3-2562-1.2	Complete	03/10/2009	None
		CN-ISIL3-2563-1.0	Complete	03/10/2009	None
		CN-ISIL3-2571-1.0	Complete	03/10/2009	None
		CN-ISIL3-2572-1.0	Complete	03/10/2009	None

Table 6-7 Detailed Class 2 – 2nd Period Listing					
	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Case(s) Used
10	2ND-003L-B	CN-ISIL3-2561-1.0	Complete	04/14/2009	None
		CN-ISIL3-2554-1.0	Complete	04/14/2009	None
11	2ND-004L-B	CN-ISIL3-2554-1.7	Complete	04/10/2009	None
		CN-ISIL3-2561-1.0	Complete	04/10/2009	None
12	2NI-001L-B	CN-ISIL3-2562-1.1	Complete	04/17/2009	None
		CN-ISIL3-2572-1.1	Complete	04/17/2009	None
13	2NI-002L-B	CN-ISIL3-2562-1.1	Not Yet Tested		None
		CN-ISIL3-2562-1.2	Not Yet Tested		None
14	2NI-003L-B	CN-ISIL3-2562-1.2	Partial	04/10/2009	None
		CN-ISIL3-2562-1.3	Partial	04/10/2009	None
15	2NI-004L-B	CN-ISIL3-2562-1.3	Complete	04/10/2009	None
16	2NI-005L-B	CN-ISIL3-2562-1.2	Complete	02/19/2009	None
17	2NI-006L-B	CN-ISIL3-2562-1.2	Not Yet Tested		None
18	2NI-007L-B	CN-ISIL3-2562-1.2	Complete	04/10/2009	None
19	2NI-008L-B	CN-ISIL3-2562-1.2	Complete	04/10/2009	None
20	2NI-009L-B	CN-ISIL3-2562-1.2	Complete	04/10/2009	None
21	2NI-010L-B	CN-ISIL3-2562-1.0	Complete	04/09/2009	None
22	2NS-001L-B	CN-ISIL3-2563-1.0	Not Yet Tested		None
23	2NS-002L-B	CN-ISIL3-2563-1.0	Not Yet Tested		None
24	2NV-001L-B	CN-ISIL3-2554-1.0	Complete	04/17/2009	None
		CN-ISIL3-2554-1.5	Complete	04/17/2009	N-566-2
		CN-ISIL3-2554-1.8	Complete	04/17/2009	None
25	2NV-002L-B	CN-ISIL3-2554-1.7	Complete	02/06/2009	None
26	2NV-003L-B	CN-ISIL3-2554-1.7	Not Yet Tested		None
27	2NV-004L-B	CN-ISIL3-2554-1.2	Not Yet Tested		None
28	2NV-005L-B	CN-ISIL3-2554-1.2	Not Yet Tested		None
29	2NV-006L-B	CN-ISIL3-1554-1.4	Complete	02/06/2009	None
		CN-ISIL3-1556-1.0	Complete	02/06/2009	None
		CN-ISIL3-2554-1.0	Complete	02/06/2009	None
		CN-ISIL3-2554-1.1	Complete	02/06/2009	None
		CN-ISIL3-2554-1.2	Complete	02/06/2009	None
		CN-ISIL3-2554-1.5	Complete	02/06/2009	None
		CN-ISIL3-2554-1.6	Complete	02/06/2009	None
		CN-ISIL3-2554-1.7	Complete	02/06/2009	None
		CN-ISIL3-2562-1.0	Complete	02/06/2009	None
		CN-ISIL3-2562-1.2	Complete	02/06/2009	None
30	2NV-008L-B	CN-ISIL3-2554-1.0	Complete	04/17/2009	None
		CN-ISIL3-1554-1.2	Complete	04/17/2009	None
					None
					None
					None
					None

Table 6-7 Detailed Class 2 – 2nd Period Listing					
	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Case(s) Used
31	2NW-001L-B	CN-ISIL3-2569-1.0	Not Yet Tested		None
		CN-ISIL3-2573-1.3	Not Yet Tested		None
		CN-ISIL3-2565-2.6	Not Yet Tested		None
		CN-ISIL3-2565-2.1	Not Yet Tested		None
		CN-ISIL3-2574-2.2	Not Yet Tested		None
		CN-ISIL3-2565-2.4	Not Yet Tested		None
		CN-ISIL3-2565-2.0	Not Yet Tested		None
		CN-ISIL3-2554-1.0	Not Yet Tested		None
		CN-ISIL3-2563-1.0	Not Yet Tested		None
		CN-ISIL3-2562-1.3	Not Yet Tested		None
		CN-ISIL3-2553-1.1	Not Yet Tested		None
		CN-ISIL3-1599-2.1	Not Yet Tested		None
		CN-ISIL3-2574-2.7	Not Yet Tested		None
		CN-ISIL3-2562-1.2	Not Yet Tested		None
32	2SA-001L-B	CN-ISIL3-2593-1.1	Complete	05/17/2009	None
33	2SA-001L-C	CN-ISIL3-2593-1.1	Complete	05/17/2009	None

Section 6 Prepared By:	Date:
Jim Boughman	6/10/09

Section 6 Reviewed By:	Date:
R. G. Hudson	6/15/09

Attachment 2

Catawba Unit 2 End of Cycle 16 Steam Generator In-service Inspection Summary Report

June 30, 2009

Larry Rudy
CNS Regulatory Compliance - CN01RC

Subject: Catawba Nuclear Station
Unit 2 Steam Generators
EOC-16 Refueling Outage, 2009
ASME Sec XI ISI Report and
NRC Inspection Report – 180 Day

Pursuant to ASME Section XI and Technical Specification 5.6.8 the following information is submitted.

Please refer to the attached report.

Contact me at 701-3829, if additional information is required.

C. B. Cauthen
CNS/SGME
Steam Generator Support

.cc Parker Downing
CNS ANII

In-service Inspection Summary Report

Catawba Unit 2 2009

Outage EOC 16

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: CB Caulton Date: 6-30-09

Reviewed By: QBM Mayes Date: 6/30/2009

Approved By: P.W. Downing Date: 6/30/09

Copy No. 1 Assigned To: NRC

Controlled: ✓ Uncontrolled: _____

Controlled Distribution

Copy No.	Assigned To
Original	Catawba Nuclear Station Document Control Master File CN-208.21
1	NRC Document Control

Uncontrolled Distribution

2	Hartford Steam Boiler Inspection and Insurance Co. of Connecticut (AIA)
Electronic	Steam Generator Desktop

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, S. C. 29745

   (Name and Address of Plant)

3. Plant Unit: 2

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

5. Commercial Service Date: August 19, 1986

6. National Board Number for Unit 173

7. Components Inspected:

Component	Manufacturer	Manufacturer Serial No.	State or Province No.	National Board No.
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

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 81/2 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.

FORM NIS-1 (Back)

8. Examination Dates 11/17/2007 to 04/19/2009

9. Inspection Period Identification: #2

10. Inspection Interval Identification: #3

11. Applicable Edition of Section XI 1998 Addenda 2000

12. Date/Revision of Inspection Plan: **Per Technical Specification (5.5.9)**

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

14. Abstract of Results of Examination and Tests.

15. Abstract of Corrective Measures.

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

Certificate of Authorization No. (if applicable) NA Expiration Date NA

Date June 30 20 09 Signed Duke Energy Carolinas, LLC By P.W. Downing
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of SC ~~NC~~ LJK 7/8/09 KCO 7-8-09 employed by *The Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owners' Report during the period 7-7-09 to 7-8-09, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Ownersí Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

Kenneth Boutet Commissions SC 233 INA
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-8 20 09

* The Hartford Steam Boiler Inspection & Insurance Company of Connecticut (HSB CT)
200 Ashford Center North
Suite 300
Atlanta, GA. 30338

Catawba 2 EOC16 Steam Generator Tube Inspection Report

Pursuant to Catawba technical specification 5.6.8 the following information is provided:

a) The scope of inspections performed on each SG

The Baseline inspection scope included full length data acquisition and bobbin coil data analysis on all four (4) steam generators as follows. ECT data from all active coils was recorded full length.

1) *All in-service tubes with exception of tight radius u-bends in rows 1-5.*

The Special interest inspection scope included data acquisition and array and/or rotating coil analysis as follows:

1) *Special interest based on new bobbin calls (new wear indications, all bobbin "I" codes, and some miscellaneous codes)*
2) *100% of hot leg tubesheet region in all four (4) steam generators from TEH to TSH +3 inches.*
3) *100% cold leg tubesheet region in the A and D steam generators from TEC to TSC + 3 inches.*
4) *20% cold leg sample of tubesheet region in the B and C steam generators from TEC to TSC + 3 inches.*
5) *35% sample of row 1-5 u-bends*
6) *20% sample of row 10 u-bends*
7) *20% sample of per-heater expansions in all four (4) steam generators*
8) *Periphery tubes two tubes deep (TSH to 01H, TSC to 19C) in all 4 steam generators (outer perimeter, open lane and T-slot)*
9) *Periphery tubes at the 18th tube support plate on the cold leg (two rows deep) in all four (4) steam generators*
10) *New dent indications and existing dent indications not analyzed during EOC15*
11) *Bounding inspections two tubes around all Possible Loose Parts(PLP) indications confirmed with array*
12) *Bounding inspections two tubes around all historical PLP indications that were still present/confirmed with array.*
13) *All hot leg tube support locations for "Seabrook type" tubes with array probe*

The Plug inspection scope was as follows:

1) *Visual inspection of all plugs*

b. Active degradation mechanisms found

Active degradation found in all four of the Catawba Unit 2 steam generators included wear at support structures, wear from foreign objects, ID indications near the tube ends in the all steam generators, and OD indications at hot leg supports in the B and D steam generators.

c. Non-destructive examination techniques utilized for each degradation mechanism

The bobbin probe was utilized for the detection of wear at support structures and freespan locations. The array probe was used for detection of indications within the tubesheets and characterization of bobbin indications. Plus point was used to confirm and size the OD and ID indications other than wear and ID axial indications exempted by the IARC.

d. Location, orientation (if linear), and measured sizes (if available) of service induced indications.

The complete listing for service induced indications is attached.

e. Number of tubes plugged during the inspection outage for each active degradation mechanism

Seven tubes were plugged in steam generator B, six for tube end indications with circumferential extents greater than 94 degrees and one for an OD indication at a hot leg tube support. One tube was preventively plugged in steam generator C for a bulge at the top of hot leg tubesheet. Two tubes were plugged in steam generator D for OD indications at several hot leg tube support plates.

f. The total number and percentage of tubes plugged to date

Steam Generator	*A*	*B*	*C*	*D*	*Total*
Prior to EOC16	*69*	*107*	*55*	*87*	*318*
EOC16	*0*	*7*	*1*	*2*	*10*
Total	*69*	*114*	*56*	*89*	*328*
% Plugged	*1.51*	*2.49*	*1.22*	*1.94*	*1.79*

g. The result of condition monitoring, including the results of tube pulls and in-situ pressure testing

For wear indications a measured through wall reading of 65 % or less assures that the minimum required degraded tube burst pressure of 3969 psi will be met. The maximum

observed depth reading at EOC 16 was 35 % TW. Therefore, condition monitoring structural integrity and accident induced leakage requirements were met for wear.

Eight indications of axial ODSCC were observed at hog leg TSP intersections. All signal amplitudes were less than 0.4 volts with the +Pt probe and the maximum crack length was 0.52 inches. Per the EPRI Steam Generator In Situ Pressure Test Guidelines, no leakage at SLB conditions will develop for a +Pt voltage less than 1.0 volts for axial ODSCC indications. The largest observed voltage was 0.35 volts. Thus Condition Monitoring structural and leakage integrity is demonstrated per the EPRI Steam Generator In Situ Pressure Test Guidelines.

The longest ID indication found at the tube end was 1.59 inches long. Recent pull strength data for circumferential cracked tubes indicates this worst case tube meets condition monitoring structural integrity requirements.

No tube pulls were performed during the outage. No in-situ tests were performed.

h. The number of indications and location, size and orientation for each service induced flaw within the tubesheet, and the total of the circumferential components and any circumferential overlap below 17 inches from the top of the tubesheet as determined in accordance with TS 5.5.9c.1.

The complete listing for tubesheet indications is attached.

i. The primary to secondary leakage rate observed in each SG (if not practical assume all leakage is through one SG) during the cycle preceding the inspection which is the subject of the report.

There was no measurable primary to secondary leakage during the cycle (cycle 16).

j. The calculated leakage rate from the portion of the tubes below 17 inches from the top of the tubesheet for the most limiting accident in the most limiting SG.

There was no calculated leakage from the portion of the tubes below 17 inches from the top of tubesheet.

The complete listings of service induced indications are on the following pages. The indication codes and their descriptions are provided here to assist in review of these lists.

Indication Code	Description
SAI	Single Axial Indication
SCI	Single Circumferential Indication
MAI	Multiple Axial Indication
TWD	Through Wall Dimension
VOL	Volumetric Indication
WAR	Wear
NQI	Non-Quantifiable Indication (Bobbin probe only code)
NDF	No Defect Found

SG A Service Induced Degradation

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
7	23	3.93	36	3	MAI		TEH 0.27			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		4.30	44	54	MAI		TEH 0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
		3.10	31	3	MAI		TEH 0.09			+PT610RPC3C	Misc RPC	0.00	0.00	0.00
15	98	0.50	0	166	TWD	8	04H -0.60	WAR		610XP	HL and CL Special I	0.27	0.20	31.00
		0.13	97	P1	NQI		04H -0.60			EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
27	49	0.57	121	P1	NQI		18C 0.66			XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.33	0	166	TWD	16	18C 1.41	WAR		610XP	HL and CL Special I	0.32	0.24	37.00
30	13	0.85	0	P4	TWD	16	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
30	23	0.46	0	P4	TWD	11	AV2 0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
31	102	0.32	0	P4	TWD	8	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.65	0	P4	TWD	14	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
31	103	1.42	0	P4	TWD	23	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
32	15	0.46	0	P4	TWD	11	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
33	14	0.33	0	P4	TWD	8	AV4 -0.18	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
33	23	0.38	0	P4	TWD	10	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.33	86	170	VOL		AV2 0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
33	93	0.72	0	P4	TWD	16	AV2 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
33	98	0.93	0	P4	TWD	15	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.95	92	90	VOL		AV2 0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
33	99	0.44	0	P4	TWD	11	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
33	100	0.80	0	P4	TWD	16	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
34	99	0.57	0	P4	TWD	13	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.34	0	P4	TWD	9	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
35	16	1.12	0	P4	TWD	19	AV3 -0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.66	0	P4	TWD	14	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
35	28	1.00	0	P4	TWD	19	AV3 -0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.39	0	P4	TWD	10	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.33	76	178	VOL		AV3 0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.55	64	102	VOL		AV2 0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
36	98	0.45	0	P4	TWD	11	AV4 0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
37	17	0.55	0	P4	TWD	12	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.25	0	P4	TWD	7	AV2 0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
37	27	0.71	0	P4	TWD	16	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
37	39	0.62	0	P4	TWD	15	AV2 0.15	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
37	77	0.45	0	P4	TWD	10	AV4 -0.07	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.77	0	P4	TWD	15	AV3 0.07	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.76	0	P4	TWD	14	AV2 -0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	17	0.48	0	P4	TWD	13	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.89	0	P4	TWD	18	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.51	0	P4	TWD	13	AV1 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	21	0.83	0	P4	TWD	16	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	22	0.37	0	P4	TWD	8	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.71	0	P4	TWD	13	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	23	0.42	0	P4	TWD	11	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	25	0.61	0	P4	TWD	12	AV3 0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	89	0.67	0	P4	TWD	15	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.69	0	P4	TWD	15	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	91	0.50	0	P4	TWD	12	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.67	0	P4	TWD	15	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	93	0.90	0	P4	TWD	18	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	96	0.40	0	P4	TWD	10	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.72	0	P4	TWD	15	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		2.19	0	P4	TWD	28	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	97	0.88	0	P4	TWD	17	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.40	0	P4	TWD	23	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		2.95	0	P4	TWD	32	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	98	0.61	0	P4	TWD	14	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.60	0	P4	TWD	14	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.86	0	P4	TWD	17	AV2 -0.13	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00

SG A Service Induced Degradation

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
39	21	0.42	0	P4	TWD	10	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
40	18	2.16	0	P4	TWD	28	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.43	0	P4	TWD	10	AV1	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		2.30	0	182	VOL		AV3	0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.62	0	186	VOL		AV1	0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
40	94	0.46	0	P4	TWD	11	AV4	0.17	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.46	0	P4	TWD	23	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
40	95	0.97	0	P4	TWD	18	AV4	0.07	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.40	0	P4	TWD	23	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	30	0.60	0	P4	TWD	14	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	44	0.73	0	P4	TWD	16	AV3	-0.18	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.84	0	P4	TWD	18	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.05	0	P4	TWD	19	AV1	0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	75	0.64	0	P4	TWD	13	AV2	0.15	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	81	0.27	0	P4	TWD	6	AV4	-0.07	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.76	0	P4	TWD	14	AV3	0.10	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.46	0	P4	TWD	22	AV2	0.07	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	83	0.46	0	P4	TWD	11	AV4	-0.10	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.96	0	P4	TWD	18	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.94	0	P4	TWD	18	AV2	0.07	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	85	1.29	0	P4	TWD	21	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	90	0.57	0	P4	TWD	13	AV3	0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	92	0.73	0	P4	TWD	15	AV4	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.10	0	P4	TWD	20	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	93	0.50	0	P4	TWD	12	AV4	0.10	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.66	0	P4	TWD	14	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	94	0.68	0	P4	TWD	15	AV4	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.93	0	P4	TWD	27	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.22	0	P4	TWD	21	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
42	24	0.83	0	P4	TWD	17	AV3	0.04	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.16	0	P4	TWD	21	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.64	93	178	VOL		AV3	0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
42	81	0.37	0	P4	TWD	8	AV4	0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.60	0	P4	TWD	12	AV2	0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
42	85	0.93	0	P4	TWD	17	AV3	0.18	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		2.04	0	P4	TWD	26	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
42	91	0.59	0	P4	TWD	13	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
43	23	0.65	0	P4	TWD	15	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.45	0	P4	TWD	10	AV1	0.12	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
43	91	1.24	0	P4	TWD	20	AV4	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.84	0	P4	TWD	16	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.87	0	P4	TWD	17	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.35	0	P4	TWD	9	AV1	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
44	23	0.93	0	P4	TWD	18	AV4	-0.12	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		3.48	0	P4	TWD	35	AV3	-0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.51	0	P4	TWD	24	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.56	0	P4	TWD	13	AV1	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
44	25	0.65	0	P4	TWD	15	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.85	0	P4	TWD	17	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
44	31	0.59	0	P4	TWD	13	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
44	90	0.45	0	P4	TWD	11	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
44	92	0.55	0	P4	TWD	13	AV4	-0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.68	0	P4	TWD	15	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
45	26	1.72	0	P4	TWD	24	AV3	0.16	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.59	0	P4	TWD	12	AV2	-0.10	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
45	90	0.87	0	P4	TWD	17	AV3	-0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
45	91	1.19	0	P4	TWD	21	AV4	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.84	0	P4	TWD	17	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.85	0	P4	TWD	17	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00

SG A Service Induced Degradation

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
47	27	1.98	0	P4	TWD	27	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.72	0	P4	TWD	16	AV2	0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
48	85	0.35	0	P4	TWD	9	AV4	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.29	0	P4	TWD	7	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
48	86	0.32	0	P4	TWD	8	AV4	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.43	0	P4	TWD	10	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
49	70	0.55	0	P4	TWD	12	AV1	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
49	81	0.47	0	P4	TWD	11	AV1	0.10	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00

Total Tubes : 66
Total Records: 126

SG B Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
1	6	5.25	42	22	SAI	TEH	0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
1	8	6.29	32	22	SAI	TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
1	10	5.62	38	22	SAI	TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
1	16	10.80	25	42	SAI	TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
1	25	3.27	39	P1	SCI	TEH	0.01			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		20.61	17	82	SCI	TEH	0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
		9.38	23	P1	SCI	TEH	0.03	IV		+PT610RPC3C	Misc RPC	0.26	1.02	156.00
1	30	6.55	31	P1	SCI	TEH	0.19			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		8.28	27	82	SCI	TEH	0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
		5.48	33	P1	SCI	TEH	0.19	IV	OR	+PT610RPC3C	Misc RPC	0.20	0.50	77.00
1	34	2.21	44	58	MAI	TEH	0.17			610XP	Tubesheet Exam	0.00	0.00	0.00
1	36	8.41	22	42	SAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
1	37	8.19	20	P1	SCI	TEH	0.07			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		30.96	10	82	SCI	TEH	0.07			610XP	Tubesheet Exam	0.00	0.00	0.00
		8.88	26	P1	SCI	TEH	0.05	IV	OR	+PT610RPC3C	Misc RPC	0.20	1.08	166.00
1	38	9.25	31	70	MAI	TEH	0.43			610XP	Tubesheet Exam	0.00	0.00	0.00
1	39	4.64	16	58	SAI	TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
1	40	2.21	32	26	MAI	TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
1	42	2.90	55	58	MAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
1	43	4.17	23	142	MAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
1	44	5.50	43	58	MAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
1	46	9.69	27	38	SAI	TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
1	50	4.54	34	P1	SCI	TEH	0.10			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		8.87	29	2	SCI	TEH	0.28			610XP	Tubesheet Exam	0.00	0.00	0.00
		4.28	35	P1	SCI	TEH	0.06	IV	OR	+PT610RPC3C	Misc RPC	0.11	0.45	69.00
1	54	1.27	52	P1	SCI	TEH	0.00			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		5.89	25	2	SCI	TEH	0.35			610XP	Tubesheet Exam	0.00	0.00	0.00
		3.10	42	P1	SCI	TEH	0.03	IV	OR	+PT610RPC3C	Misc RPC	0.23	0.35	53.00
1	56	4.62	32	P1	SCI	TEH	0.02			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		14.81	32	50	SCI	TEH	0.32			610XP	Tubesheet Exam	0.00	0.00	0.00
		8.20	37	P1	SCI	TEH	0.07	IV	OR	+PT610RPC3C	Misc RPC	0.20	1.59	243.00
1	57	10.61	37	P1	SCI	TEH	0.10			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		21.75	29	18	SCI	TEH	0.32			610XP	Tubesheet Exam	0.00	0.00	0.00
		10.00	39	P1	SCI	TEH	0.05	IV	OR	+PT610RPC3C	Misc RPC	0.23	0.79	121.00
1	62	0.19	127	3	NOI	TSC	1.48			EC610LLMC-2	Bobbin Exam	0.00	0.00	0.00
		3.32	37	P1	SCI	TEH	0.10			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		6.83	22	2	SCI	TEH	0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
		2.66	43	P1	SCI	TEH	0.09	IV	OR	+PT610RPC3C	Misc RPC	0.20	0.52	79.00
1	63	5.12	39	P1	SCI	TEH	0.09			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		20.07	24	2	SCI	TEH	0.28			610XP	Tubesheet Exam	0.00	0.00	0.00
		4.68	40	P1	SCI	TEH	0.04	IV	OR	+PT610RPC3C	Misc RPC	0.23	1.06	162.00
1	64	1.70	55	54	SAI	TEH	0.27			610XP	Tubesheet Exam	0.00	0.00	0.00
1	91	9.58	34	10	SAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
1	96	6.34	42	22	MAI	TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
1	97	5.43	17	122	SAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
1	99	4.58	46	186	MAI	TEH	0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
2	14	7.45	36	58	SAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
2	27	3.73	40	22	SAI	TEH	0.11			610XP	Tubesheet Exam	0.00	0.00	0.00
2	30	0.70	109	138	SAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
2	33	5.08	18	186	MAI	TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
2	34	4.12	30	182	MAI	TEH	0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
2	36	2.36	14	190	SAI	TEH	0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
2	39	1.25	19	106	SAI	TEH	0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
2	44	8.19	24	86	SAI	TEH	0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
2	70	2.04	28	6	SAI	TEH	0.29			610XP	Tubesheet Exam	0.00	0.00	0.00
2	76	2.36	13	178	MAI	TEH	0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
2	77	2.25	18	6	SAI	TEH	0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
2	78	2.04	35	6	MAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
2	79	3.91	15	142	MAI	TEH	0.11			610XP	Tubesheet Exam	0.00	0.00	0.00

NDF by Gray OB Mays

SG B Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
2	82	5.88	24	118	MAI		TEH 0.36			610XP	Tubesheet Exam	0.00	0.00	0.00
2	83	4.94	31	6	MAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
2	84	4.71	30	6	SAI		TEH 0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
2	86	2.12	24	122	MAI		TEH 0.11			610XP	Tubesheet Exam	0.00	0.00	0.00
2	92	1.92	29	90	SAI		TEH 0.03			610XP	Tubesheet Exam	0.00	0.00	0.00
2	93	3.69	14	74	SAI		TEH 0.02			610XP	Tubesheet Exam	0.00	0.00	0.00
2	95	4.33	32	74	SAI		TEH 0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
2	98	2.70	38	90	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
3	14	1.84	14	154	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
3	21	6.07	28	42	SAI		TEH 0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
3	24	4.53	36	42	SAI		TEH 0.07			610XP	Tubesheet Exam	0.00	0.00	0.00
3	25	2.71	21	6	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
3	29	6.45	26	42	SAI		TEH 0.27			610XP	Tubesheet Exam	0.00	0.00	0.00
3	30	2.03	27	26	MAI		TEH 0.10			610XP	Tubesheet Exam	0.00	0.00	0.00
3	32	1.88	79	22	SAI		TEH 0.10			610XP	Tubesheet Exam	0.00	0.00	0.00
3	33	3.24	33	38	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
3	34	1.57	18	38	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
3	36	5.29	34	22	SAI		TEH 0.20			610XP	Tubesheet Exam	0.00	0.00	0.00
3	70	4.48	42	118	MAI		TEH 0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
3	76	3.24	37	170	SAI		TEH 0.00			610XP	Tubesheet Exam	0.00	0.00	0.00
3	77	7.51	47	6	MAI		TEH 0.35			610XP	Tubesheet Exam	0.00	0.00	0.00
3	78	7.13	44	106	SAI		TEH 0.49			610XP	Tubesheet Exam	0.00	0.00	0.00
3	79	6.56	37	118	SAI		TEH 0.96			610XP	Tubesheet Exam	0.00	0.00	0.00
3	80	5.56	32	166	SAI		TEH 0.03			610XP	Tubesheet Exam	0.00	0.00	0.00
3	83	5.12	25	142	MAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
3	84	5.32	22	86	SAI		TEH 0.39			610XP	Tubesheet Exam	0.00	0.00	0.00
3	85	1.87	24	90	SAI		TEH 0.36			610XP	Tubesheet Exam	0.00	0.00	0.00
3	95	0.68	20	6	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
3	99	2.25	39	186	SAI		TEH 0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
4	14	0.91	36	42	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
4	27	4.70	56	154	SAI		TEH 0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
4	28	2.92	39	130	SAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
4	29	3.73	40	22	SAI		TEH 0.03			610XP	Tubesheet Exam	0.00	0.00	0.00
4	34	4.11	31	182	MAI		TEH 0.07			610XP	Tubesheet Exam	0.00	0.00	0.00
4	40	3.61	19	182	SAI		TEH 0.29			610XP	Tubesheet Exam	0.00	0.00	0.00
4	63	3.19	26	166	SAI		TEH 0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
4	78	2.55	30	178	MAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
4	79	6.67	34	182	MAI		TEH 0.46			610XP	Tubesheet Exam	0.00	0.00	0.00
4	80	5.10	20	118	SAI		TEH 0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
4	83	2.68	34	6	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
4	92	0.68	52	86	SAI		TEH 0.11			610XP	Tubesheet Exam	0.00	0.00	0.00
4	95	3.10	27	102	SAI		TEH 0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
5	31	2.79	35	42	SAI		TEH 0.07			610XP	Tubesheet Exam	0.00	0.00	0.00
5	44	9.07	16	146	SAI		TEH 0.17			610XP	Tubesheet Exam	0.00	0.00	0.00
5	76	6.94	44	6	MAI		TEH 0.20			610XP	Tubesheet Exam	0.00	0.00	0.00
5	79	4.08	29	102	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
5	80	7.92	27	122	MAI		TEH 0.42			610XP	Tubesheet Exam	0.00	0.00	0.00
5	81	5.39	44	106	MAI		TEH 0.35			610XP	Tubesheet Exam	0.00	0.00	0.00
5	82	5.07	32	26	SAI		TEH 0.00			610XP	Tubesheet Exam	0.00	0.00	0.00
5	83	1.90	17	102	SAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
5	106	3.05	36	90	SAI		TEH 0.17			610XP	Tubesheet Exam	0.00	0.00	0.00
6	44	2.93	15	6	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
6	77	7.83	16	170	MAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
6	79	5.56	28	90	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
6	80	6.10	29	86	SAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
6	81	7.36	27	102	SAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
6	82	4.02	157	86	SAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
6	84	4.54	41	86	SAI		TEH 0.19			610XP	Tubesheet Exam	0.00	0.00	0.00
6	86	0.77	29	118	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00

SG B Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
7	34	2.83	23	38	SAI		TEH 0.00			610XP	Tubesheet Exam	0.00	0.00	0.00
7	39	5.85	33	130	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
7	56	5.31	25	158	MAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
7	74	0.28	116	P1	NQI		03H -0.72			EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.50	0	154	TWD	15	03H -0.72	WAR		610XP	HL and CL Special I	0.30	0.22	34.00
7	77	5.28	29	6	SAI		TEH 0.03			610XP	Tubesheet Exam	0.00	0.00	0.00
7	79	8.94	25	6	MAI		TEH 0.55			610XP	Tubesheet Exam	0.00	0.00	0.00
7	80	4.96	22	186	MAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
7	84	3.80	34	118	SAI		TEH 0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
7	86	2.50	33	122	MAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
8	25	0.88	0	90	TWD	13	05H -0.60	WAR		610XP	HL and CL Special I	0.00	1.18	180.00
		0.43	89	P1	NQI		05H -0.74			XPMMR610	Bobbin Exam	0.00	0.00	0.00
8	28	4.47	52	26	SAI		TEH 0.42			610XP	Tubesheet Exam	0.00	0.00	0.00
8	36	4.34	37	122	SAI		TEH 0.35			610XP	Tubesheet Exam	0.00	0.00	0.00
8	39	2.32	15	26	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
8	48	4.49	16	118	SAI		TEH 0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
8	63	3.79	7	130	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
8	64	2.74	13	166	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
8	80	10.82	30	122	MAI		TEH 0.03			610XP	Tubesheet Exam	0.00	0.00	0.00
8	81	2.57	21	102	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
8	82	3.03	27	102	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
8	84	3.26	17	90	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
9	27	2.37	26	146	SAI		TEH 0.51			610XP	Tubesheet Exam	0.00	0.00	0.00
9	31	1.86	26	138	SAI		TEH 0.55			610XP	Tubesheet Exam	0.00	0.00	0.00
9	36	4.04	32	86	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
9	65	6.73	28	10	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
9	76	8.23	12	162	MAI		TEH 0.35			610XP	Tubesheet Exam	0.00	0.00	0.00
9	77	5.05	27	134	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
9	78	4.14	33	186	MAI		TEH 0.36			610XP	Tubesheet Exam	0.00	0.00	0.00
9	82	3.74	20	122	SAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
9	85	4.13	34	6	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
10	39	5.24	14	10	SAI		TEH 0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
10	50	0.53	0	174	TWD	7	04H -0.73	WAR		610XP	HL and CL Special I	0.29	0.19	29.00
		0.40	125	P1	NQI		04H -0.66			XPMMR610	Bobbin Exam	0.00	0.00	0.00
10	64	10.72	38	42	SAI		TEH 0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
10	76	16.62	16	174	SAI		TEH 0.19			610XP	Tubesheet Exam	0.00	0.00	0.00
10	78	12.40	32	138	SAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
10	81	14.11	18	170	MAI		TEH 0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
10	84	4.06	63	74	SAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
11	66	4.56	32	22	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
11	70	7.47	28	86	SAI		TEH 0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
11	77	9.65	43	86	MAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
11	78	11.56	32	174	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
11	87	13.28	33	138	SAI		TEH 0.20			610XP	Tubesheet Exam	0.00	0.00	0.00
12	35	0.30	0	190	TWD	4	11C -0.87	WAR		610XP	HL and CL Special I	0.30	0.28	43.00
		0.34	120	3	NQI		11C -1.13			XPMMR610	Bobbin Exam	0.00	0.00	0.00
12	36	3.65	24	6	SAI		TEH 0.33			610XP	Tubesheet Exam	0.00	0.00	0.00
12	64	9.55	32	22	SAI		TEH 0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
12	92	20.43	21	150	SAI		TEH 0.19			610XP	Tubesheet Exam	0.00	0.00	0.00
13	63	2.28	27	10	SAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
13	70	2.14	27	106	SAI		TEH 0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
14	43	3.92	31	146	SAI		TEH 0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
15	32	3.03	134	142	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
15	36	5.01	36	6	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
15	56	1.39	0	P4	TWD	22	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
15	69	5.56	30	74	MAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
15	70	2.37	36	142	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
16	45	3.86	13	102	MAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
16	64	3.00	45	70	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00

SG B Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
18	49	2.60	35	38	SAI		TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
18	64	8.50	49	74	SAI		TEH	0.41			610XP	Tubesheet Exam	0.00	0.00	0.00
18	75	13.04	18	146	SAI		TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
20	32	3.96	23	130	SAI		TEH	0.16			610XP	Tubesheet Exam	0.00	0.00	0.00
20	33	3.74	17	106	SAI		TEH	0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
21	33	4.35	19	122	SAI		TEH	0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
21	63	4.03	33	54	SAI		TEH	0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
21	65	4.73	34	190	SAI		TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
23	26	3.62	23	74	SAI		TEH	0.28			610XP	Tubesheet Exam	0.25	0.33	50.00
23	74	10.02	40	138	MAI		TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
24	62	0.11	119	1	SAI		02H	0.26		OR	RPG590C	Misc RPC	0.00	0.00	0.00
		0.37	124	86	SAI		02H	0.30			610XP	Tubesheet Exam	0.00	0.00	0.00
		0.14	110	3	SAI		02H	0.39	IV		+PT610RPC3C	Misc RPC	0.37	0.16	24.00
25	31	1.91	35	106	SAI		TEH	0.27			610XP	Tubesheet Exam	0.00	0.00	0.00
26	81	2.16	29	P1	SCI		TEH	0.09			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		2.21	31	P1	SCI		TEH	0.06	IV	OR	+PT610RPC3C	Misc RPC	0.23	1.08	166.00
		15.34	21	78	SCI		TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
27	59	6.44	75	146	SAI		TEH	0.29			610XP	Tubesheet Exam	0.00	0.00	0.00
27	60	1.73	0	P4	TWD	18	AV2	0.24	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
30	21	2.31	34	102	SAI		TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
30	104	1.10	0	P4	TWD	14	AV1	-0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.57	0	P4	TWD	18	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
32	102	0.50	95	90	VOL		AV1	0.15	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.74	0	P4	TWD	11	AV1	0.15	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
32	103	1.11	0	P4	TWD	16	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.73	0	P4	TWD	12	AV3	-0.21	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.90	0	P4	TWD	14	AV4	0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
33	56	5.32	21	142	SAI		TEH	0.33			610XP	Tubesheet Exam	0.00	0.00	0.00
36	19	2.89	37	182	SAI		TEH	0.19			610XP	Tubesheet Exam	0.00	0.00	0.00
36	98	0.71	0	P4	TWD	11	AV4	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
36	99	0.80	0	P4	TWD	10	AV4	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
37	16	0.69	0	142	TWD	11	05H	-0.72	WAR		610XP	HL and CL Special I	0.33	0.18	27.00
		0.51	139	P1	NQI		05H	-0.60			XPMMR610	Bobbin Exam	0.00	0.00	0.00
37	98	0.89	0	P4	TWD	14	AV3	0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
37	99	1.11	0	P4	TWD	16	AV4	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	75	0.67	0	P4	TWD	11	AV2	-0.12	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
39	59	0.56	0	P4	TWD	9	AV4	0.17	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
40	69	0.67	0	P4	TWD	11	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
44	91	1.23	0	P4	TWD	18	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
45	24	0.65	0	P4	TWD	12	AV4	-0.05	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
47	27	1.10	0	P4	TWD	18	AV4	-0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.39	0	P4	TWD	21	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.68	0	P4	TWD	12	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
47	88	0.59	0	P4	TWD	10	AV2	0.18	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.62	0	P4	TWD	11	AV4	-0.24	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
48	75	0.42	0	P4	TWD	8	AV1	0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.56	64	166	VOL		AV1	0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.25	0	P24	TWD	9	AV2	-0.03	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.24	0	P9	TWD	9	AV2	0.09	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
49	61	0.49	0	P25	TWD	16	AV1	0.03	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.22	0	P9	TWD	9	AV1	0.09	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
49	71	0.39	0	P24	TWD	13	AV1	-0.12	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.28	0	P9	TWD	10	AV1	0.03	WAR		610XP	UBend Special Inter	0.00	0.00	0.00

Total Tubes : 190
Total Records: 230

SG B Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR

SG C Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
1	6	3.34	24	90	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
1	19	2.15	30	10	SAI		TEH 0.20			610XP	Tubesheet Exam	0.00	0.00	0.00
1	21	1.51	106	118	SAI		TEH 0.33			610XP	Tubesheet Exam	0.00	0.00	0.00
3	51	2.37	55	142	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
5	49	3.91	32	178	SAI		TEH 0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
5	51	2.90	50	166	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
7	72	0.37	0	74	TWD	11	04H -0.71	WAR		610XP	HL and CL Special I	0.25	0.23	35.00
		0.24	90	P1	NQI		04H -0.58			EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
10	80	6.43	53	138	MAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
22	70	2.48	32	170	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
25	10	1.44	0	P2	NQI		18C 0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.22	110	158	TWD	20	18C 0.60	WAR		610XP	HL and CL Special I	0.30	0.20	31.00
		0.35	0	142	TWD	8	18C 0.58	WAR		610XP	HL and CL Special I	0.21	0.15	23.00
27	9	2.36	0	P4	TWD	28	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
28	10	0.91	0	P4	TWD	16	AV2 -0.15	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
28	11	0.47	0	P4	TWD	10	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
28	105	1.24	0	P4	TWD	19	AV3 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
29	10	0.64	0	P4	TWD	13	AV3 0.18	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.32	0	P4	TWD	7	AV2 -0.15	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
29	12	0.44	0	P4	TWD	10	AV3 0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.66	0	P4	TWD	13	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
29	14	0.36	0	P4	TWD	7	AV3 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
30	15	0.91	0	P4	TWD	17	AV4 0.08	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
31	12	1.20	0	P4	TWD	19	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
33	12	0.90	0	P4	TWD	16	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.01	0	P4	TWD	17	AV1 0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
33	14	0.98	0	P4	TWD	16	AV2 -0.16	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.65	0	P4	TWD	11	AV3 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
33	55	1.39	0	P4	TWD	23	AV3 -0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
33	100	0.34	0	P4	TWD	8	AV2 -0.03	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
33	101	0.37	91	182	VOL		AV4 0.24	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.91	0	P4	TWD	16	AV4 0.05	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
33	102	0.59	0	P4	TWD	12	AV2 -0.08	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
34	95	3.91	31	P1	SCI		TEH 0.07	IV		+PT610RPC3C	Misc RPC	0.24	0.27	42.00
		4.26	36	P1	SCI		TEH 0.32			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		18.94	5	14	SCI		TEH 0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
36	25	0.39	0	P4	TWD	9	AV2 -0.03	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
36	33	1.26	73	190	VOL		AV2 0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.68	0	P4	TWD	14	AV2 -0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
36	37	0.56	0	P4	TWD	12	AV2 0.07	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
36	98	0.69	0	P4	TWD	14	AV2 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
38	17	0.72	0	P4	TWD	14	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.23	0	P4	TWD	20	AV2 -0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.55	0	P4	TWD	11	AV1 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	23	0.43	0	P4	TWD	10	AV2 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.53	0	P4	TWD	12	AV4 0.03	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
38	34	0.98	0	P4	TWD	16	AV2 0.17	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	97	1.16	0	P4	TWD	19	AV2 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
38	99	1.43	0	P4	TWD	22	AV3 0.06	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		2.66	0	P4	TWD	31	AV4 -0.06	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
39	17	0.37	0	P4	TWD	8	AV1 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
39	18	0.79	0	P4	TWD	15	AV2 -0.11	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
39	27	0.82	41	158	VOL		AV3 0.00	WAR		610XP	HL and CL Special I	0.00	0.00	0.00
		0.63	0	P4	TWD	13	AV3 -0.08	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
39	94	0.86	0	P4	TWD	17	AV3 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
39	97	0.40	0	P4	TWD	9	AV1 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.72	0	P4	TWD	14	AV2 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.61	0	P4	TWD	12	AV3 -0.03	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		1.10	0	P4	TWD	18	AV4 0.22	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00

SG C Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
40	20	1.05	0	P4	TWD	18	AV2	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
40	22	0.64	0	P4	TWD	11	AV2	0.06	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
40	27	0.55	0	P4	TWD	12	AV2	0.11	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
41	20	0.43	0	P4	TWD	9	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.30	0	P4	TWD	7	AV2	0.13	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.37	0	P4	TWD	8	AV1	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
42	90	0.39	129	P1	NQI		18C	0.53			EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.65	0	10	TWD	14	18C	0.68	WAR		610XP	HL and CL Special I	0.35	0.27	42.00
43	93	0.50	0	P4	TWD	10	AV2	0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.49	0	P4	TWD	10	AV3	-0.08	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.66	0	P4	TWD	12	AV4	0.15	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
44	81	2.83	0	P4	TWD	32	AV2	0.11	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		1.56	0	P4	TWD	24	AV3	0.11	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.51	0	P4	TWD	12	AV4	0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
49	59	2.99	0	P2	TWD	24	13C	0.30	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		3.43	0	P2	NQI		13C	0.22	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		3.00	136	150	VOL		13C	0.53	WAR		610XP	HL and CL Special I	0.00	0.00	0.00
49	76	1.84	0	P4	TWD	24	AV1	-0.14	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00

Total Tubes : 49
Total Records: 77

SG D Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
1	84	2.74	45	90	SAI		TEH 0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
6	28	2.95	56	10	SAI		TEH 0.28			610XP	Tubesheet Exam	0.00	0.00	0.00
15	80	0.36	125	P1	NQI		03H -0.90			EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.69	0	122	TWD	11	03H -0.82	WAR		610XP	HL and CL Special I	0.30	0.41	63.00
		0.39	0	122	TWD	7	03H -0.75	WAR		610XP	HL and CL Special I	0.27	0.28	43.00
17	55	0.49	0	166	TWD	6	01H 0.48	WAR		610XP	HL and CL Special I	0.30	0.32	48.00
		0.29	109	P1	NQI		01H 0.49			EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
25	107	0.54	0	P4	TWD	11	AV3 -0.19	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		1.33	0	P4	TWD	21	AV2 0.30	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
27	107	1.03	0	P4	TWD	17	AV2 0.27	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
28	10	0.47	0	P4	TWD	11	AV4 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.47	0	P4	TWD	11	AV3 0.12	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
28	71	1.19	0	P4	TWD	19	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
28	105	1.49	311	P4	TWD	21	AV2 0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
29	104	0.77	0	P4	TWD	15	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
30	102	1.26	0	P4	TWD	20	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
32	96	0.78	0	P4	TWD	15	AV2 0.30	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.68	106	38	VOL		AV2 0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
33	13	0.74	0	P4	TWD	15	AV4 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		1.08	0	P4	TWD	20	AV3 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		1.64	0	P4	TWD	25	AV2 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
33	15	0.80	0	P4	TWD	16	AV4 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
33	79	0.82	0	P4	TWD	16	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
33	81	0.60	0	P4	TWD	13	AV2 0.15	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.53	65	70	VOL		AV2 0.03	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
34	98	1.24	0	P4	TWD	20	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
34	99	1.02	0	P4	TWD	17	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
34	100	0.89	0	P4	TWD	17	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
35	14	0.91	0	P4	TWD	18	AV4 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		3.13	0	P4	TWD	34	AV2 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
35	17	10.25	40	114	SCI		TEH 0.20			610XP	Tubesheet Exam	0.00	0.00	0.00
		3.33	44	P1	SCI		TEH 0.15	IV		+PT610RPC3C	Misc RPC	0.23	0.32	48.00
35	43	5.81	55	50	SCI		TEH 0.23			610XP	Tubesheet Exam	0.00	0.00	0.00
		2.65	48	P1	SCI		TEH 0.09	IV		+PT610RPC3C	Misc RPC	0.30	0.44	67.00
35	96	0.48	0	P4	TWD	10	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
36	16	0.77	0	P4	TWD	16	AV4 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.77	0	P4	TWD	16	AV3 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		2.93	0	P4	TWD	33	AV2 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.59	0	P4	TWD	13	AV1 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
36	65	1.64	0	P4	TWD	24	AV3 0.18	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
36	93	1.18	0	P4	TWD	20	AV2 -0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
36	94	0.70	0	P4	TWD	14	AV2 0.18	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.54	0	P4	TWD	11	AV1 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
36	96	0.80	0	P4	TWD	14	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.21	0	P4	TWD	19	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
36	97	1.28	0	P4	TWD	19	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
36	98	0.91	0	P4	TWD	15	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
36	100	0.63	0	P4	TWD	12	AV3 -0.12	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.41	0	P4	TWD	21	AV3 0.10	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
37	17	0.97	0	P4	TWD	18	AV4 0.11	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		1.16	0	P4	TWD	20	AV2 0.00	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
38	18	1.44	0	P4	TWD	22	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		2.00	0	P4	TWD	26	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	19	0.54	0	P4	TWD	12	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	20	0.44	0	P4	TWD	9	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.83	0	P4	TWD	15	AV2 -0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	21	0.62	0	P4	TWD	12	AV2 0.12	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	26	0.35	0	P4	TWD	8	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	64	1.38	0	P4	TWD	21	AV2 0.30	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00

SG D Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
38	78	1.27	0	P4	TWD	20	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	90	0.44	0	P4	TWD	9	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	93	1.48	161	146	VOL		AV3 0.06	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		2.83	73	146	VOL		AV2 0.00	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.60	0	P4	TWD	12	AV3 -0.18	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.82	0	P4	TWD	24	AV2 0.15	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
38	94	0.47	0	P4	TWD	10	AV3 -0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.57	68	146	VOL		AV3 -0.06	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
39	81	0.81	0	P4	TWD	14	AV4 0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.82	0	P4	TWD	15	AV2 0.15	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.23	86	162	VOL		AV4 -0.13	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
		0.82	71	54	VOL		AV2 0.06	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
39	90	0.87	0	P4	TWD	15	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.51	65	70	VOL		AV2 -0.03	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
39	96	1.34	0	P4	TWD	20	AV3 0.10	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
39	98	0.63	0	P4	TWD	12	AV1 0.10	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
40	93	0.69	0	P4	TWD	13	AV2 -0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
40	94	1.17	0	P4	TWD	19	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.08	0	P4	TWD	18	AV2 0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
40	97	0.75	0	P4	TWD	14	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.79	0	P4	TWD	14	AV1 -0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	20	0.71	0	P4	TWD	14	AV4 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	55	7.15	17	102	SAI		TEH 0.33			610XP	H/L Array (Seabrook	0.00	0.00	0.00
		0.98	126	P20	MAI		05H 0.51			610XP	H/L Array (Seabrook	0.00	0.00	0.00
		0.35	39	P1	SAI		04H -0.21			610XP	H/L Array (Seabrook	0.00	0.00	0.00
		0.39	70	P13	SAI		03H 0.12			610XP	H/L Array (Seabrook	0.00	0.00	0.00
		0.34	29	3	SAI		03H -0.40	IV		+PT610RPC3C	Misc RPC	0.36	0.19	29.00
		0.24	22	3	SAI		04H -0.19	IV		+PT610RPC3C	Misc RPC	0.33	0.28	43.00
		0.14	65	3	SAI		05H -0.07	IV		+PT610RPC3C	Misc RPC	0.39	0.18	27.00
		0.35	108	3	SAI		05H 0.32	IV		+PT610RPC3C	Misc RPC	0.36	0.27	42.00
		0.16	79	1	SAI		03H -0.40			RPG590C	Misc RPC	0.00	0.00	0.00
		0.13	41	1	SAI		04H -0.19			RPG590C	Misc RPC	0.00	0.00	0.00
		0.36	95	1	SAI		05H 0.28			RPG590C	Misc RPC	0.00	0.00	0.00
41	59	6.13	58	86	MAI		TEH 0.37			610XP	Tubesheet Exam	0.00	0.00	0.00
		0.46	70	P1	NQI		05H 0.12			XPMMR610	Bobbin Exam	0.00	0.00	0.00
		5.69	43	3	MAI		TEH 0.08			+PT610RPC3C	Misc RPC	0.00	0.00	0.00
		0.28	43	3	SAI		03H -0.16	IV		+PT610RPC3C	Misc RPC	0.52	0.24	37.00
		0.18	45	3	SAI		03H 0.28	IV		+PT610RPC3C	Misc RPC	0.26	0.18	27.00
		0.27	98	3	SAI		05H 0.20	IV		+PT610RPC3C	Misc RPC	0.29	0.27	42.00
		0.16	102	1	SAI		03H -0.09			RPG590C	Misc RPC	0.00	0.00	0.00
		0.12	73	1	SAI		03H 0.27			RPG590C	Misc RPC	0.00	0.00	0.00
		0.37	110	1	SAI		05H 0.20			RPG590C	Misc RPC	0.00	0.00	0.00
		0.95	104	P20	SAI		05H 0.24			610XP	HL and CL Special I	0.00	0.00	0.00
		0.56	118	P27	SAI		03H 0.27			610XP	H/L Array (Seabrook	0.00	0.00	0.00
		0.59	79	P19	SAI		03H -0.09			610XP	H/L Array (Seabrook	0.00	0.00	0.00
41	77	0.51	0	P4	TWD	10	AV3 -0.08	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.43	0	P4	TWD	21	AV2 0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
42	23	1.09	0	P4	TWD	20	AV4 0.21	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.62	0	P4	TWD	25	AV2 -0.09	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
42	30	0.91	0	P4	TWD	18	AV2 -0.06	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
42	32	0.96	0	P4	TWD	19	AV2 -0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
42	85	0.56	0	P4	TWD	11	AV3 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.01	0	P4	TWD	17	AV2 0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
43	22	1.27	0	P4	TWD	21	AV4 0.30	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		2.05	0	P4	TWD	27	AV3 0.27	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.54	0	P4	TWD	12	AV2 -0.03	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.42	0	P4	TWD	10	AV1 -0.21	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.59	65	178	VOL		AV1 -0.09	WAR		610XP	UBend Special Inter	0.00	0.00	0.00
43	29	0.57	0	P4	TWD	12	AV2 -0.19	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00

SG D Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
43	78	3.38	0	P4	TWD	34	AV3	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		1.56	0	P4	TWD	22	AV2	-0.24	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
44	24	0.76	0	P4	TWD	15	AV3	0.25	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
44	46	1.46	0	P4	TWD	22	AV3	-0.12	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
44	90	0.47	0	P4	TWD	10	AV1	0.27	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
44	91	0.79	0	P4	TWD	16	AV4	-0.20	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.79	0	P4	TWD	16	AV2	0.12	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
45	91	0.53	0	P4	TWD	12	AV4	-0.08	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.64	0	P4	TWD	14	AV2	0.22	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
47	87	0.56	0	P4	TWD	13	AV4	-0.07	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
48	78	2.59	0	P4	TWD	31	AV4	0.06	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
48	82	0.50	0	P4	TWD	10	AV1	0.12	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
49	37	0.44	0	P4	TWD	10	AV1	0.16	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
49	45	0.45	85	P1	NQI		13C	0.45			XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.99	0	P2	TWD	9	13C	0.55	WAR		EC610LLMC-Z	Bobbin Exam	0.00	0.00	0.00
		0.41	118	34	VOL		13C	0.39	WAR		610XP	HL and CL Special I	0.00	0.00	0.00
49	74	0.72	0	P4	TWD	14	AV4	-0.20	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00
49	84	0.67	0	P4	TWD	15	AV1	0.00	WAR		XPMMR610	Bobbin Exam	0.00	0.00	0.00

Total Tubes : 72
Total Records: 136

SG A Tubesheet Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
7	23	3.93	36	3	MAI		TEH 0.27			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		4.30	*44*	*54*	*MAI*		*TEH 0.14*			610XP	Tubesheet Exam	0.00	0.00	0.00
		3.10	31	3	MAI		TEH 0.09			+PT610RPC3C	Misc RPC	0.00	0.00	0.00

Total Tubes : 1
Total Records: 3

SG B Tubesheet Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
1	6	5.25	42	22	SAI		TEH	0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
1	8	6.29	32	22	SAI		TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
1	10	5.62	38	22	SAI		TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
1	16	10.80	25	42	SAI		TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
1	25	3.27	39	P1	SCI		TEH	0.01			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		20.61	17	82	SCI		TEH	0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
		9.38	23	P1	SCI		TEH	0.03	IV		+PT610RPC3C	Misc RPC	0.26	1.02	156.00
1	30	6.55	31	P1	SCI		TEH	0.19			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		8.28	27	82	SCI		TEH	0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
		5.48	33	P1	SCI		TEH	0.19	IV	OR	+PT610RPC3C	Misc RPC	0.20	0.50	77.00
1	34	2.21	44	58	MAI		TEH	0.17			610XP	Tubesheet Exam	0.00	0.00	0.00
1	36	8.41	22	42	SAI		TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
1	37	8.19	20	P1	SCI		TEH	0.07			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		30.96	10	82	SCI		TEH	0.07			610XP	Tubesheet Exam	0.00	0.00	0.00
		8.88	26	P1	SCI		TEH	0.05	IV	OR	+PT610RPC3C	Misc RPC	0.20	1.08	166.00
1	38	9.25	31	70	MAI		TEH	0.43			610XP	Tubesheet Exam	0.00	0.00	0.00
1	39	4.64	16	58	SAI		TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
1	40	2.21	32	26	MAI		TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
1	42	2.90	55	58	MAI		TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
1	43	4.17	23	142	MAI		TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
1	44	5.50	43	58	MAI		TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
1	46	9.69	27	38	SAI		TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
1	50	4.54	34	P1	SCI		TEH	0.10			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		8.87	29	2	SCI		TEH	0.28			610XP	Tubesheet Exam	0.00	0.00	0.00
		4.28	35	P1	SCI		TEH	0.06	IV	OR	+PT610RPC3C	Misc RPC	0.11	0.45	69.00
1	54	1.27	52	P1	SCI		TEH	0.00			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		5.89	25	2	SCI		TEH	0.35			610XP	Tubesheet Exam	0.00	0.00	0.00
		3.10	42	P1	SCI		TEH	0.03	IV	OR	+PT610RPC3C	Misc RPC	0.23	0.35	53.00
1	56	4.62	32	P1	SCI		TEH	0.02			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		14.81	32	50	SCI		TEH	0.32			610XP	Tubesheet Exam	0.00	0.00	0.00
		8.20	37	P1	SCI		TEH	0.07	IV	OR	+PT610RPC3C	Misc RPC	0.20	1.59	243.00
1	57	10.61	37	P1	SCI		TEH	0.10			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		21.75	29	18	SCI		TEH	0.32			610XP	Tubesheet Exam	0.00	0.00	0.00
		10.00	39	P1	SCI		TEH	0.05	IV	OR	+PT610RPC3C	Misc RPC	0.23	0.79	121.00
1	62	3.32	37	P1	SCI		TEH	0.10			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		6.83	22	2	SCI		TEH	0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
		2.66	43	P1	SCI		TEH	0.09	IV	OR	+PT610RPC3C	Misc RPC	0.20	0.52	79.00
1	63	5.12	39	P1	SCI		TEH	0.09			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		20.07	24	2	SCI		TEH	0.28			610XP	Tubesheet Exam	0.00	0.00	0.00
		4.68	40	P1	SCI		TEH	0.04	IV	OR	+PT610RPC3C	Misc RPC	0.23	1.06	162.00
1	64	1.70	55	54	SAI		TEH	0.27			610XP	Tubesheet Exam	0.00	0.00	0.00
1	91	9.58	34	10	SAI		TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
1	96	6.34	42	22	MAI		TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
1	97	5.43	17	122	SAI		TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
1	99	4.58	46	186	MAI		TEH	0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
2	14	7.45	36	58	SAI		TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
2	27	3.73	40	22	SAI		TEH	0.11			610XP	Tubesheet Exam	0.00	0.00	0.00
2	30	0.70	109	138	SAI		TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
2	33	5.08	18	186	MAI		TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
2	34	4.12	30	182	MAI		TEH	0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
2	36	2.36	14	190	SAI		TEH	0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
2	39	1.25	19	106	SAI		TEH	0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
2	44	8.19	24	86	SAI		TEH	0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
2	70	2.04	28	6	SAI		TEH	0.29			610XP	Tubesheet Exam	0.00	0.00	0.00
2	76	2.36	13	178	MAI		TEH	0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
2	77	2.25	18	6	SAI		TEH	0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
2	78	2.04	35	6	MAI		TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
2	79	3.91	15	142	MAI		TEH	0.11			610XP	Tubesheet Exam	0.00	0.00	0.00
2	82	5.88	24	118	MAI		TEH	0.36			610XP	Tubesheet Exam	0.00	0.00	0.00

SG B Tubesheet Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
2	83	4.94	31	6	MAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
2	84	4.71	30	6	SAI		TEH 0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
2	86	2.12	24	122	MAI		TEH 0.11			610XP	Tubesheet Exam	0.00	0.00	0.00
2	92	1.92	29	90	SAI		TEH 0.03			610XP	Tubesheet Exam	0.00	0.00	0.00
2	93	3.69	14	74	SAI		TEH 0.02			610XP	Tubesheet Exam	0.00	0.00	0.00
2	95	4.33	32	74	SAI		TEH 0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
2	98	2.70	38	90	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
3	14	1.84	14	154	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
3	21	6.07	28	42	SAI		TEH 0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
3	24	4.53	36	42	SAI		TEH 0.07			610XP	Tubesheet Exam	0.00	0.00	0.00
3	25	2.71	21	6	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
3	29	6.45	26	42	SAI		TEH 0.27			610XP	Tubesheet Exam	0.00	0.00	0.00
3	30	2.03	27	26	MAI		TEH 0.10			610XP	Tubesheet Exam	0.00	0.00	0.00
3	32	1.88	79	22	SAI		TEH 0.10			610XP	Tubesheet Exam	0.00	0.00	0.00
3	33	3.24	33	38	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
3	34	1.57	18	38	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
3	36	5.29	34	22	SAI		TEH 0.20			610XP	Tubesheet Exam	0.00	0.00	0.00
3	70	4.48	42	118	MAI		TEH 0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
3	76	3.24	37	170	SAI		TEH 0.00			610XP	Tubesheet Exam	0.00	0.00	0.00
3	77	7.51	47	6	MAI		TEH 0.35			610XP	Tubesheet Exam	0.00	0.00	0.00
3	78	7.13	44	106	SAI		TEH 0.49			610XP	Tubesheet Exam	0.00	0.00	0.00
3	79	6.56	37	118	SAI		TEH 0.96			610XP	Tubesheet Exam	0.00	0.00	0.00
3	80	5.56	32	166	SAI		TEH 0.03			610XP	Tubesheet Exam	0.00	0.00	0.00
3	83	5.12	25	142	MAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
3	84	5.32	22	86	SAI		TEH 0.39			610XP	Tubesheet Exam	0.00	0.00	0.00
3	85	1.87	24	90	SAI		TEH 0.36			610XP	Tubesheet Exam	0.00	0.00	0.00
3	95	0.68	20	6	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
3	99	2.25	39	186	SAI		TEH 0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
4	14	0.91	36	42	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
4	27	4.70	56	154	SAI		TEH 0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
4	28	2.92	39	130	SAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
4	29	3.73	40	22	SAI		TEH 0.03			610XP	Tubesheet Exam	0.00	0.00	0.00
4	34	4.11	31	182	MAI		TEH 0.07			610XP	Tubesheet Exam	0.00	0.00	0.00
4	40	3.61	19	182	SAI		TEH 0.29			610XP	Tubesheet Exam	0.00	0.00	0.00
4	63	3.19	26	166	SAI		TEH 0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
4	78	2.55	30	178	MAI		TEH 0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
4	79	6.67	34	182	MAI		TEH 0.46			610XP	Tubesheet Exam	0.00	0.00	0.00
4	80	5.10	20	118	SAI		TEH 0.25			610XP	Tubesheet Exam	0.00	0.00	0.00
4	83	2.68	34	6	SAI		TEH 0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
4	92	0.68	52	86	SAI		TEH 0.11			610XP	Tubesheet Exam	0.00	0.00	0.00
4	95	3.10	27	102	SAI		TEH 0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
5	31	2.79	35	42	SAI		TEH 0.07			610XP	Tubesheet Exam	0.00	0.00	0.00
5	44	9.07	16	146	SAI		TEH 0.17			610XP	Tubesheet Exam	0.00	0.00	0.00
5	76	6.94	44	6	MAI		TEH 0.20			610XP	Tubesheet Exam	0.00	0.00	0.00
5	79	4.08	29	102	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
5	80	7.92	27	122	MAI		TEH 0.42			610XP	Tubesheet Exam	0.00	0.00	0.00
5	81	5.39	44	106	MAI		TEH 0.35			610XP	Tubesheet Exam	0.00	0.00	0.00
5	82	5.07	32	26	SAI		TEH 0.00			610XP	Tubesheet Exam	0.00	0.00	0.00
5	83	1.90	17	102	SAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
5	106	3.05	36	90	SAI		TEH 0.17			610XP	Tubesheet Exam	0.00	0.00	0.00
6	44	2.93	15	6	SAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
6	77	7.83	16	170	MAI		TEH 0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
6	79	5.56	28	90	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
6	80	6.10	29	86	SAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
6	81	7.36	27	102	SAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
6	82	4.02	157	86	SAI		TEH 0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
6	84	4.54	41	86	SAI		TEH 0.19			610XP	Tubesheet Exam	0.00	0.00	0.00
6	86	0.77	29	118	SAI		TEH 0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
7	34	2.83	23	38	SAI		TEH 0.00			610XP	Tubesheet Exam	0.00	0.00	0.00

SG B Tubesheet Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
7	39	5.85	33	130	SAI	TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
7	56	5.31	25	158	MAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
7	77	5.28	29	6	SAI	TEH	0.03			610XP	Tubesheet Exam	0.00	0.00	0.00
7	79	8.94	25	6	MAI	TEH	0.55			610XP	Tubesheet Exam	0.00	0.00	0.00
7	80	4.96	22	186	MAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
7	84	3.80	34	118	SAI	TEH	0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
7	86	2.50	33	122	MAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
8	28	4.47	52	26	SAI	TEH	0.42			610XP	Tubesheet Exam	0.00	0.00	0.00
8	36	4.34	37	122	SAI	TEH	0.35			610XP	Tubesheet Exam	0.00	0.00	0.00
8	39	2.32	15	26	SAI	TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
8	48	4.49	16	118	SAI	TEH	0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
8	63	3.79	7	130	SAI	TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
8	64	2.74	13	166	SAI	TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
8	80	10.82	30	122	MAI	TEH	0.03			610XP	Tubesheet Exam	0.00	0.00	0.00
8	81	2.57	21	102	SAI	TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
8	82	3.03	27	102	SAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
8	84	3.26	17	90	SAI	TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
9	27	2.37	26	146	SAI	TEH	0.51			610XP	Tubesheet Exam	0.00	0.00	0.00
9	31	1.86	26	138	SAI	TEH	0.55			610XP	Tubesheet Exam	0.00	0.00	0.00
9	36	4.04	32	86	SAI	TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
9	65	6.73	28	10	SAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
9	76	8.23	12	162	MAI	TEH	0.35			610XP	Tubesheet Exam	0.00	0.00	0.00
9	77	5.05	27	134	SAI	TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
9	78	4.14	33	186	MAI	TEH	0.36			610XP	Tubesheet Exam	0.00	0.00	0.00
9	82	3.74	20	122	SAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
9	85	4.13	34	6	SAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
10	39	5.24	14	10	SAI	TEH	0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
10	64	10.72	38	42	SAI	TEH	0.06			610XP	Tubesheet Exam	0.00	0.00	0.00
10	76	16.62	16	174	SAI	TEH	0.19			610XP	Tubesheet Exam	0.00	0.00	0.00
10	78	12.40	32	138	SAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
10	81	14.11	18	170	MAI	TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
10	84	4.06	63	74	SAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
11	66	4.56	32	22	SAI	TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
11	70	7.47	28	86	SAI	TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
11	77	9.65	43	86	MAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
11	78	11.56	32	174	SAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
11	87	13.28	33	138	SAI	TEH	0.20			610XP	Tubesheet Exam	0.00	0.00	0.00
12	36	3.65	24	6	SAI	TEH	0.33			610XP	Tubesheet Exam	0.00	0.00	0.00
12	64	9.55	32	22	SAI	TEH	0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
12	92	20.43	21	150	SAI	TEH	0.19			610XP	Tubesheet Exam	0.00	0.00	0.00
13	63	2.28	27	10	SAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
13	70	2.14	27	106	SAI	TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
14	43	3.92	31	146	SAI	TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
15	32	3.03	134	142	SAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
15	36	5.01	36	6	SAI	TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
15	69	5.56	30	74	MAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
15	70	2.37	36	142	SAI	TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
16	45	3.86	13	102	MAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
16	64	3.00	45	70	SAI	TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
18	49	2.60	35	38	SAI	TEH	0.24			610XP	Tubesheet Exam	0.00	0.00	0.00
18	64	8.50	49	74	SAI	TEH	0.41			610XP	Tubesheet Exam	0.00	0.00	0.00
18	75	13.04	18	146	SAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
20	32	3.96	23	130	SAI	TEH	0.16			610XP	Tubesheet Exam	0.00	0.00	0.00
20	33	3.74	17	106	SAI	TEH	0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
21	33	4.35	19	122	SAI	TEH	0.14			610XP	Tubesheet Exam	0.00	0.00	0.00
21	63	4.03	33	54	SAI	TEH	0.22			610XP	Tubesheet Exam	0.00	0.00	0.00
21	65	4.73	34	190	SAI	TEH	0.18			610XP	Tubesheet Exam	0.00	0.00	0.00
23	26	3.62	23	74	SAI	TEH	0.28			610XP	Tubesheet Exam	0.25	0.33	50.00
23	74	10.02	40	138	MAI	TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00

SG B Tubesheet Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
25	31	1.91	35	106	SAI		TEH	0.27			610XP	Tubesheet Exam	0.00	0.00	0.00
26	81	2.16	29	P1	SCI		TEH	0.09			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		2.21	31	P1	SCI		TEH	0.06	IV	OR	+PT610RPC3C	Misc RPC	0.23	1.08	166.00
		15.34	21	78	SCI		TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
27	59	6.44	75	146	SAI		TEH	0.29			610XP	Tubesheet Exam	0.00	0.00	0.00
30	21	2.31	34	102	SAI		TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
33	56	5.32	21	142	SAI		TEH	0.33			610XP	Tubesheet Exam	0.00	0.00	0.00
36	19	2.89	37	182	SAI		TEH	0.19			610XP	Tubesheet Exam	0.00	0.00	0.00

Total Tubes : 165
Total Records: 185

SG C Tubesheet Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
1	6	3.34	24	90	SAI		TEH	0.15			610XP	Tubesheet Exam	0.00	0.00	0.00
1	19	2.15	30	10	SAI		TEH	0.20			610XP	Tubesheet Exam	0.00	0.00	0.00
1	21	1.51	106	118	SAI		TEH	0.33			610XP	Tubesheet Exam	0.00	0.00	0.00
3	51	2.37	55	142	SAI		TEH	0.12			610XP	Tubesheet Exam	0.00	0.00	0.00
5	49	3.91	32	178	SAI		TEH	0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
5	51	2.90	50	166	SAI		TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
10	80	6.43	53	138	MAI		TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
22	70	2.48	32	170	SAI		TEH	0.09			610XP	Tubesheet Exam	0.00	0.00	0.00
34	95	3.91	31	P1	SCI		TEH	0.07	IV		+PT610RPC3C	Misc RPC	0.24	0.27	42.00
		4.26	36	P1	SCI		TEH	0.32			+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		18.94	5	14	SCI		TEH	0.14			610XP	Tubesheet Exam	0.00	0.00	0.00

Total Tubes : 9
Total Records: 11

SG D Tubesheet Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		UTIL 1	UTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
1	84	2.74	45	90	SAI		TEH	0.21			610XP	Tubesheet Exam	0.00	0.00	0.00
6	28	2.95	56	10	SAI		TEH	0.28			610XP	Tubesheet Exam	0.00	0.00	0.00
35	17	10.25	40	114	SCI		TEH	0.20			610XP	Tubesheet Exam	0.00	0.00	0.00
		3.33	44	P1	SCI		TEH	0.15	IV		+PT610RPC3C	Misc RPC	0.23	0.32	48.00
35	43	5.81	55	50	SCI		TEH	0.23			610XP	Tubesheet Exam	0.00	0.00	0.00
		2.65	48	P1	SCI		TEH	0.09	IV		+PT610RPC3C	Misc RPC	0.30	0.44	67.00
41	55	7.15	17	102	SAI		TEH	0.33			610XP	H/L Array (Seabrook	0.00	0.00	0.00
41	59	6.13	58	86	MAI		TEH	0.37			610XP	Tubesheet Exam	0.00	0.00	0.00
		5.69	43	3	MAI		TEH	0.08			+PT610RPC3C	Misc RPC	0.00	0.00	0.00

Total Tubes : 6
Total Records: 9