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

Carolinas

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

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www.duke-energy.com

Document Control Desk Page 2 July 14, 2009

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 1

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 Date Date

09

07/07

Checked By:

Approved By:

 	As	s required by the	Provisions of the	e ASME Code Ru	les	
1.	Öwner: <u>Duke</u>	<u>Energy Carolinas</u> (Namo	<u>, LLC, 526 S. Chu</u> e and Address of (<u>rch St., Charlotte,</u> Owner)	NC 28201-1006	
2.	. Plant: <u>Catawba Nuclear Station, 4800 Concord Road, York, SC 29745</u> (Name and Address of Plant)					
3.	Plant Unit: 2	4. Owne	er Certificate of Au	thorization (if requ	iired): <u>N/A</u>	
5.	Commercial S	Service Date: 0 <u>8/1</u>	<u>19/86</u> 6. National	Board Number for	r Unit: <u>173</u>	
7.	Components	Inspected:				
	Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.	
		See See	ction 1.1 in the Attac	hed Report		
				<u> </u>	· · · · · · · · · · · · · · · · · · ·	
			· · · · · · · · · · · · · · · · · · ·			
			·	·		
					·	

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

Total number of pages contained in this report _____201

FOR	M NIS-1 (Back)				、 ·	
8.	Examination Dates: November 1	7, 2007	_ to _	April 19,	2009	· · · · · · · · · · · · · · · · · · ·
9.	Inspection Period Identification:	Second Period	1			
10.	Inspection Interval Identification:	Third Interval				
11.	Applicable Edition of Section XI:	1998	Add	lenda	2000	;
12.	Date / Revision of Inspection Plan:	June 26, 2008	/ Revis	sion 1		
13.	Abstract of Examinations and Tests. Inc status of work required for the Inspection	clude a list of exa n Plan:	aminatio <u>Se</u>	ons and t e Sectio	ests and a state ns 2.0, 3.0 and	ement concerning <u>6.0</u>
14.	Abstract of Results of Examinations and	Tests:	<u>Se</u>	e Sectio	n 4.0 and 6.0	
15.	Abstract of Corrective Measures:		Se	e Subse	ction 4.3	· · · · · · · · · · · · · · · · · · ·
We a Inspe rules	certify that a) the statements made in this ection Plan as required by the ASME Coc of the ASME Code, Section XI.	report are corre le, Section XI, a	ct, b) th nd c) co	e examir prrective	nations and test measures taker	s meet the a conform to the
Certi	ficate of Authorization No. (if applicable)	_N/A		Exp	piration Date	N/A
Date	07/09/09 Signed <u>C</u>	<u>Duke Energy</u> arolinas, LLC Owner	Ву	M	ulaf	2 }
	CERTIFICAT	E OF INSERVI	E INSF	PECTION	1	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Soc II</u> <u>Carolinica</u> employed by <u>*HSB</u> of <u>Connecticut</u> have inspected the components described in this Owner's Report during the period <u>7-8-09</u> to <u>7-9-09</u> , 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						
Ke	Kenneth Worth f Commissions 5 C Z 33 I IV A Inspector's Signature National Board, State, Province, and Endorsements					
Date * The 200 Sui Atla (80 ww	Date <u>7-9-09</u> * 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

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2. NRC Document Control Desk

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4.0	Results of Inspections Performed	0
5.0	Owner's Report for Repair / Replacement Activities	0
6.0	Pressure Testing	0

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.

ltem	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	lonics, Inc.	2S-86P765	N/A	343

1.1 Identification Numbers

EOC16 Refueling Outage Report Catawba Unit 2 Section 1 Page 1 of 6 Revision 0 July 7, 2009

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	lonics, 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		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

EOC16 Refueling Outage Report Catawba Unit 2 Section 1 Page 2 of 6 Revision 0 July 7, 2009

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	Joseph Oat Corporation	2A 2267-3C	N/A	848
Exchanger		2B 2267-3D	N/A	849
Containment Spray Heat Exchanger	Joseph Oat Corporation	2A 2636-B	N/A	3449
	• •	2B 2636-C	N/A	3456
Seal Water Injection	Pall Trinity Micro Corporation	2A 35367	N/A	19025
		2B 35366	N/A	19024
Volume Control Tank	Richmond Engineering Company	N-2286.30	N/A	77171

EOC16 Refueling Outage Report Catawba Unit 2 Section 1 Page 3 of 6 Revision 0 July 7, 2009

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.

EOC16 Refueling Outage Report Catawba Unit 2 Section 1 Page 4 of 6 Revision 0 July 7, 2009

1.3 <u>Reference Documents</u>

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.

EOC16 Refueling Outage Report Catawba Unit 2 Section 1 Page 5 of 6 Revision 0 July 7, 2009

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

EOC16 Refueling Outage Report Catawba Unit 2 Section 1 Page 6 of 6 Revision 0 July 7, 2009

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.

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

EOC16 Refueling Outage Report Catawba Unit 2 Section 2 Page 1 of 4 Revision 0 July 7, 2009

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	¹ Deferral Allowed
В-К	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			PORT
B-Q	Steam Generator Tubing	See Note 2 below			
F-A	Class 1 Component Supports	72	24	33.33%	No

Class 1 Inspections (Continued)

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.

EOC16 Refueling Outage Report Catawba Unit 2 Section 2 Page 2 of 4 Revision 0 July 7, 2009

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%
С-Н	All Pressure Retaining Components	REFERENCE SECTION 6.0 OF THIS REPORT		OF THIS
F-A	Class 2 Component Supports	251	124	49.40%

Class 2 Inspections

EOC16 Refueling Outage Report Catawba Unit 2 Section 2 Page 3 of 4 Revision 0 July 7, 2009

Weld Overlay Section XI Appendix Q

Examination	Description	Inspections	Inspections	Percentage	Deferral
Category		Required	Completed	Completed	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	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

EOC16 Refueling Outage Report Catawba Unit 2 Section 2 Page 4 of 4 Revision 0 July 7, 2009

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.	Ξ	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

EOC16 Refueling Outage Report Catawba Unit 2 Section 3 Page 1 of 1 Revision 0 July 7, 2009 ScheduleWorks

DUKE ENERGY NUCLEAR TECHNICAL SERVICES Inservice Inspection Database Management System <u>Plan Report</u>

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-NOZZI	LES				· · ·	•			· .
· ·	Class 1 NC M	P/0/A/7150/042E	NDE-68	VT-2	SS-Inconel	•	0.000 / 0.000		•	
,			Inconel Trans	ition Weld t	o Stainless Ste	el Tube				-
			Bare Metal Vi 722 (Item B1 between the A This exam sh of examinatio Jody Shuping	sual Inspec 5.80). The b Alloy 600 tul ould be sch n. Any ques).	tion by VT-2 quare metal visu be and the stai eduled every cutions concerni	ualified insp al inspectior nless steel ther outage ng this exan	ector of the BMI n shall include an tube. This exam begining with EC n should be direc	Nozzles (all nozzles inspection of the bo added per QA-513J DC-16. Reference F ted to the Materials) per the requiement ottom head and Alle Form, dated 1/8/20 ootnote 4 of Code and NDE Services	nts of Code Case N- oy 600 transition weld 009 (ER-CNS-09-01). Case N-722 for type Group (Chris Cruz or
C2.B15.95.0001	2RPV201-121ASE							· ·		
•	Class 1 NC Cl	NM 2201.01-0205	NDE-68	VT-2	SS-Inconel		0.000 / 0.000	· · · ·		
			· ·	•	. ,					•
		.*	Nozzlt-to-Pipe	э`				• :		· .
			Bare Metal Vi of Code Case (g)(6)(ii)(E) 2 Examination 10CFR50.55a These inspec remaining per and NDE Ser	sual Inspec N-722 Foo through 4 Frequency/I a. tions shall b riods and re vices Group	tion by VT-2 q tnote 4(Item N Duration: Reac egin in the inte fueling outage (Chris Cruz o	ualified insp umber B15. tor Vessel c erval in effec s in this inte r Jody Shup	ector of the react 95), subject to th old leg nozzles to st on January 1, 2 rval. Any questic ing).	or vessel cold leg no e conditions specific o be inspected per th 2009 (beginning in 2 ons concerning this o	ozzles per the exar ad in 10CFR50.55a ne requirements of EOC16), and shall exam should be dir	nination requirements paragraphs Footnote 1 of be prorated over the ected to the Materials
		•								
		• •						••••		-
		,			. •			· ·		· · · · · · · · · · · · · · · · · · ·
		,								
						•				

Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	Procedure Description Comments	Insp [®] Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG							******		
C2.B4.10.0002	2RPV-HEAD-S	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		
			Time between have been de 5 calendar ye insulation thro less than 8, th 2EOC16, and calculation wi because a ba EDY calculat outage, with r Revised NRC For coverage CNS-09-08). Services Divit Acceptance of Revelant con- evidence of n applies and is	In inspection tected, the ars, whiche bugh multipl he next full I i then again II continued re metal visi tion will coni to flexibility, Corder EA-(requirement For addition sion. writeria spect ditions for th ozzle leaka a deemed to	s may be shor reexamination ver is less, pro- e access point pare metal visu- in 2EOC17, a to be updated ual per Code (tinue to be upo- and these alte 03-009 no long its, see Figure nal information fied in ASME (ge. Once a lic be withdrawn	tened, but n frequency c vided an IW s in outages all will be du and if EDY Case N-729- ated and if arrnative VE's er applies a 1 of Code C , contact Ra Code Case he VE shall ensee imple	voi lengthened. If of the full bare me /A-2212 VT-2 vis s that the full bare je in 2EOC18, T into every outage > or equal to 8 the -1 will be required EDY > or equal to EDY > or equal to ts will be discontir nd is deemed to Case N-729-1. For achel Doss in the 729-1, subject to include areas of ements this required	EDY <8 and no flaws una- tal visual may be extended a metal visual is not comp herefore, IWA-2212 VT-2 e that the full bare metal visual bese IWA-2212 VT-2 visual d every refueling outage. b 8 the full bare metal visual used. Once a licensee im- be withdrawn. or additional information, r Material and NDE Service conditions in 10CFR50.55 corrosion, boric acid depo- rement the First Revised N	acceptable for continued service ed to every third refueling outage or ad is performed under the leted. Provided EDY remains visuals shall be performed in isual is not performed. EDY als will no longer take place, uals will be required every refueling plements this requirement, the First reference QA-513J Form (ER- es Section, Nuclear Technical 5a(g)(6)(ii)(D)(2) through (6). osits, discoloration, and other NRC Order EA-03-009 no longer
C2.G2.1.0001	2SM38-01 Class 2 SM	CN-2SM-038	NDE-25	МТ	CS		1.375 / 34.000		G02.001.001,
		CN-ISIN3-2593-1.0							G02.001.0017
			Procedure NI used , then th	DE-600 uses le calibration	s the compone n block listed s	nt for calibra hall be used	ation. Procedure 1.	PDI-UT-1 may be used in	lieu of NDE-600. If PDI-UT-1 is
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 NI used , then th	DE-600 uses le calibration	s the compone n block listed s	nt for calibra hall be used	ation. Procedure 1.	PDI-UT-1 may be used in	lieu of NDE-600. If PDI-UT-1 is

Summary Num	Component II Class / Syste	D ISO/DWG Numbers m	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks		Componenet ID 2
Category AUG										<u>.</u>
C2.G2.1.0002	2SM-4B-A									
	Class 2 SM	CN-2SM-038	NDE-25	MT	CS		1.375 / 34.000			G02.001.002,
		CN-ISIN3-2593-1.0								
			Grinnel Piece used in lieu o	Mark CW-Si f NDE-600. II	M-4B Weld A f PDI-UT-1 is	. Procedure used , then	NDE-600 uses the the calibration block	ne component for cal ock listed shall be us	ibration. Procedure ed.	PDI-UT-1 may be
C2.G2.1.0002	2SM-4B-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		G02.001.002, G02.001.002A
			Grinnel Piece used in lieu o	Mark CW-SI f NDE-600. If	M-4B Weld A PDI-UT-1 is	. Procedure used , then	NDE-600 uses the calibration blo	ne component for cal ock listed shall be us	ibration. Procedure ed.	PDI-UT-1 may be
C2.G2.1.0003	2SM38-03									
	Class 2 SM	CN-2SM-038	NDE-25	MT	CS		1.375 / 34.000			G02.001.003,
		CN-ISIN3-2593-1.0								G02.001.003F
		• .	Procedure NI used , then th	DE-600 uses ne calibration	the compone block listed s	nt for calibr	ation. Procedure I d.	PDI-UT-1 may be use	ed in lieu of NDE-6	00. If PDI-UT-1 is
C2.G2.1.0003	2SM38-03			n						
	Class 2 SM	CN-2SM-038	NDE-600	UT	CS		1.375 / 34.000	Component		G02.001.003,
		CN-ISIN3-2593-1.0					· ·	PDI-UT-1-C		G02.001.003#
										· ·
			Procedure NI used , then th	DE-600 uses ne calibration	the compone block listed s	nt for calibr	ation. Procedure I d.	PDI-UT-1 may be use	ed in lieu of NDE-6	00. If PDI-UT-1 is
C2.G2.1.0004	2SM-5B-A									· · ·
	Class 2 SM	CN-2SM-038	NDE-25	МТ	CS		1.375 / 34.000			G02.001.004,
		CN-ISIN3-2593-1.0	:							G02.001.004#
			Grinnell Piece used in lieu o	e Mark CW-S f NDE-600. If	M-5B Weld A PDI-UT-1 is	. Procedure used , then	e NDE-600 uses to the calibration blo	he component for ca ock listed shall be us	libration. Procedure	PDI-UT-1 may be
					·					

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Co	omponenet 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 Pieco used in lieu o	e Mark CW-S f NDE-600. I	SM-5B Weld A f PDI-UT-1 is	A. Procedure used , then	e NDE-600 uses t the calibration ble	he component for ca ock listed shall be u	alibration. Procedure PDI-U sed.	T-1 may be
C2.G2.1.0005	2SM38-05									
	Class 2 SM	CN-2SM-038	NDE-25	МТ	CS		1.750 / 34.000			G02.001.005,
		CN-ISIN3-2593-1.0								G02.001.005P
· .			Procedure NI used , then th	DE-600 uses ne calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-1 may be us	sed in lieu of NDE-600. If PI	DI-UT-1 is
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 NI used , then th	DE-600 uses ne calibration	the compone block listed s	nt for calibration	ation. Procedure I d.	PDI-UT-1 may be us	sed in lieu of NDE-600. If PI	DI-UT-1 is
C2.G2.1.0006	2SM38-14		N					· •		
•	Class 2 SM	CN-2SM-038	NDE-25	MT	CS		1.750 / 34.000			G02.001.006,
- -		CN-ISIN3-2593-1.0				-				G02.001,006P
			Procedure NI used , then th	DE-600 uses ne calibration	the compone block listed s	nt for calibr	ation. Procedure I d.	PDI-UT-1 may be us	sed in lieu of NDE-600. If PI	DI-UT-1 is
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 NI used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be used	ation. Procedure I d.	PDI-UT-1 may be us	ed in lieu of NDE-600. If PI	DI-UT-1 is

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component ID Class / Systen) ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Cor	nponenet ID 2
Category AUG										
C2.G2.1.0007	2SM-7B-A					· ·				
	Class 2 SM	CN-2SM-038	, NDE-25	MT	CS		1.750 / 34.000			G02.001.007
		CN-ISIN3-2593-1.0						•		602.001.007
			Grinnell Piece used in lieu o	e Mark CW-S f NDE-600. If	M-7B Weld A PDI-UT-1 is	Procedure used , then	NDE-600 uses t the calibration blo	he component for calibratior ock listed shall be used.	a. Procedure PDI-UT	-1 may be
C2.G2.1.0007	2SM-7B-A							<u> </u>	······	
	Class 2 SM	CN-2SM-038	NDE-600	UT	CS		1.750 / 34.000	Component		G02.001.007
		CN-ISIN3-2593-1.0						PDI-UT-1-C		G02.001.0077
			Grinnell Piece used in lieu o	e Mark CW-S f NDE-600. If	M-7B Weld A PDI-UT-1 is	. Procedure used , then	NDE-600 uses the calibration blo	he component for calibration ock listed shall be used.	. Procedure PDI-UT	-1 may be
C2.G2.1.0008	2SM38-15									
	Class 2 SM	CN-2SM-038	NDE-25	МТ	CS		2.375 / 34.000			G02.001.008
		CN-ISIN3-2593-1.0				,				002.001.000/
C2.G2.1.0008	2SM38-15									
	Class 2 SM	CN-2SM-038	NDE-600	UT	CS		2.375 / 34.000	Component		G02.001.008
		CN-ISIN3-2593-1.0								002.007.000
	· · ·		,							
C2.G2.1.0009	2SM-8B-A					· · · ·				
	Class 2 SM	CN-2SM-040	NDE-25	MT	CS		2.375 / 34.000			G02.001.009,
		CN-ISIN3-2593-1.0								002.001.0007
							-			
·			Grinnell Piece	Mark CW-S	M-8B Weld A	•				
C2.G2.1.0009	2SM-8B-A					•	0.075 / 0.4 000	A		000 001 000
	Class 2 SM	CN-2SM-040	NDE-600	UT	CS		2.375/34.000	Component		G02.001.009, G02.001.009/
		CN-ISIN3-2593-1.0	•							· .
			Grinnell Piece	e Mark CW-SI	M-8B Weld A					
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Summary Num	Component IE Class / Systen) ISO/DWG Numbers n	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks		Componenet ID 2
C2.G2.1.0010	2SM40-01					i				
	Class 2 SM	CN-2SM-040	NDE-25	МТ	CS	•	2.375 / 34.000			G02.001.010,
•		CN-ISIN3-2593-1.0						·	· •	G02.001.010F
C2.G2.1.0010	2SM40-01	······································								· · · · · ·
	Class 2 SM	CN-2SM-040	NDE-600	UT ,	: CS		2.375 / 34.000	Component	· · ·	G02.001.010,
	•	CN-ISIN3-2593-1.0						•		602.001.010F
C2.G2.1.0011	2SM42-01		*	·····		,				
	Class 2 SM	CN-2SM-042	NDE-25	МТ	CS		2.375 / 34.000		•	G02.001.011,
	· . · ·	CN-ISIN3-2593-1.0								G02.001.0117
C2.G2.1.0011	2SM42-01		. •		· .	· · · · · · · · ·	·			<u> </u>
	Class 2 SM	CN-2SM-042	NDE-600	UT	CS		2.375 / 34.000	Component		G02.001.011,
· · ·		CN-ISIN3-2593-1.0		1 C. 1			•		•	G02.001.011F
C2.G4.1.0001	2NI28-1									·
	Class 2 NI	CN-2NI-28 CN-ISIN3-2562-1.3	PDI-UT-2	UT	SS	20	0.312 / 18.000	50235 PDI-UT-2-C		G04.001.001
Circumferential	• , -					•		••••••		
			Pipe to Pipe							
· ·	• * * *		Procedure NI used , then th	DE-600 uses le calibration	the compor block listed	ent for calibr shall be use	ation. Procedure d. Weld to be exa	PDI-UT-2 may I mined once per	be used in lieu of NDE-600. If I 10 year interval in the same p	PDI-UT-2 is period.
C2.G6.2.0001	2PZR-MANWA	Y ·								
	Class 1 NC	CNM 2201.01-110/1 CNM 2201.01-110/2	NDE-68	VT-2	NA		0.000 / 0.000			G06.002.001
		· · ·	Pressurizer N Bare Metal Vi Manway for e Engineer Nuc Reference NF	lanway Diap sual Examin vidence of d lear Technic RC Bulletin 2	hram Seal V ation by VT- iaphram plat al Services) 004-01)	Veld. 2 qualified in te seal weld h	spector. Examine eakage. (For res	the gap betwee ponsibile individ	en the Pressurizer Manway Co ual, contact J. M. Shuping, All	ver and oy 600
Printed 07/07/09 jec59	08 v. 06/18/09	······································			SD	QA Cat "C"	· · ·		Catawba 2 7/7/2009 8:35:29 A	M Page 6 of 64

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.G7.2.0001	2RPV-202-121	ASE							
e	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 CNM 2201.01-0205							
Dissimilar		CIAM 2201.01-0203							
			Nozzle to Sat	fe End					
			RV Outlet No: requirements Note: This we A vendor will I	zzle To Safe per MRP-13 Id location is have to be c	End At 158 D 9. For respon also required ontracted to p	egrees (Lo sibile indivi to be inspe erform this	op A). Reactor Bu dual, contact J. M ected per ASME \$ inspection.	uilding Coordinate is 22 De 1. Shuping, Alloy 600 Engir Section XI, Item Number B	grees. Inspect volume and neer Nuclear Technical Services). 05.010.006 Outage 6 (EOC19).
C2.G7.2.0002	2RPV202-121	BSE							
	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 Dissimilar		CNM 2201.01-0205			,				
			Nozzle to Sat	fe End					
			RV Outlet No: requirements Note: This we A vendor will I	zzle To Safe per MRP-13 Id location is have to be c	End At 22 De 9. For respon also required ontracted to p	grees (Loo sibile indivi to be inspe erform this	p B). Reactor Bui dual, contact J. N ected per ASME \$ inspection.	lding Coordinate is 158 De 1. Shuping, Alloy 600 Engir Section XI, Item Number B	grees. Inspect volume and teer Nuclear Technical Services). 05.010.005 Outage 6 (EOC19).
C2.G7.2.0003	2RPV202-1210	CSE	•						
	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 Dissimilar		CNM 2201.01-0205					•		
			Nozzle to Sal	fe End					
			RV Outlet No: (Loop C). Rea individual, cor Note: This we A vendor will ł	zzle To Safe actor Building atact J. M. Si Id location is nave to be co	End At 338 D g Coordinate is nuping, Alloy 6 also required ontracted to pe	egrees 3 202 Degre 300 Enginee to be inspe erform this i	ees. Inspect voluer Nuclear Techni acted per ASME S inspection.	ume and requirements per ical Services). Section XI, Item Number Bl	MRP-139. For responsibile 05.010.008 Outage 6 (EOC19).
2RPV202-12 Class 1 NC		CSE E 8871-171-009 CNM 2201.01-74/5 CNM 2201.01-0205	Nozzle to Sat RV Outlet Noz requirements Note: This we A vendor will I SI-UT-130 Nozzle to Sat RV Outlet Noz (Loop C). Rea individual, cor Note: This we A vendor will I	fe End zzle To Safe per MRP-13 Id location is have to be c UT UT fe End zzle To Safe itact J. M. S Id location is have to be c	End At 22 De 9. For respon also required ontracted to pr SS-CS End At 338 D b Coordinate is also required ontracted to pr	grees (Loo sibile indivi to be inspe- erform this erform this 202 Degre 300 Enginee to be inspe- erform this	p B). Reactor Buil dual, contact J. M acted per ASME S inspection. 2.625 / 29.000 2.625 / 29.000 ees. Inspect volu er Nuclear Techni acted per ASME S inspection.	Iding Coordinate is 158 De 1. Shuping, Alloy 600 Engir Section XI, Item Number Bi SI-32-AX-01 Ime and requirements per ical Services). Section XI, Item Number Bi	grees. Inspect volume and neer Nuclear Technical Services). 05.010.005 Outage 6 (EOC19). G07.002.003 MRP-139. For responsibile 05.010.008 Outage 6 (EOC19).

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG									
C2.G7.2.0004	2RPV202-121	DSE							•
Circumferential Terminal End Dissimilar	Class 1 NC	E 8871-171-009 CNM 2201.01-74/5 CNM 2201.01-0205	SI-UT-130	UT	SS-CS		2.625 / 29.000	SI-32-AX-01	G07.002.004
			Nozzle to Sa	fe End					
			RV Outlet No. requirements Note: This we A vendor will	zzle To Safe per MRP-13 ald location is have to be c	End At 202 I 9. For response also required ontracted to p	Degrees (Lo nsibile indivi d to be inspe perform this	op D). Reactor Bu dual, contact J. M ected per ASME \$ inspection.	uilding Coordinate is 338 I. Shuping, Alloy 600 Eng Section XI, Item Number	Degrees. Inspect volume and gineer Nuclear Technical Services). B05.010.007 Outage 6 (EOC19).
C2.G8.2.0001	2RPV202-121/	ASE							,
Circumferential Terminal End Dissimilar	Class 1 NC	E 8871-171-009 CNM 2201.01-74/5 CNM 2201.01-0205	NDE-68	VT-2	SS-CS		2.625 / 29.000		G08.002.001
			Nozzle to Sa	fe End					
			RV Outlet No: C2.B9.11.000 Bare Metal Vi M. Shuping, A	zzle To Safe 01 sual Examin Alloy 600 Eng	End At 158 [ation by VT-2 gineer Nuclea	Degrees (Lo qualified in r Technical	op A). Reactor Bu spector per requir Services).	ilding Coordinate is 22 E ements of MRP-139. (F	Degrees. To Be Done With or responsible individual, contact J.
C2.G8.2.0002	2RPV-202-121	BSE						· · · · · · · · · · · · · · · · · · ·	
Circumferential Terminal End Dissimilar	Class 1 NC	E 8871-171-009 CNM 2201.01-74/5 CNM 2201.01-0205	NDE-68	VT-2	SS-CS		2.625 / 29.000		G08.002.002
			Nozzle to Sa	fe End					
	-		RV Outlet No: C2.B9.11.000 Bare Metal Vi M. Shuping, A	zzle To Safe 95. sual Examin Alloy 600 Eng	End At 22 De ation by VT-2 gineer Nuclea	egrees (Looj qualified in: r Technical	p B). Reactor Buil spector per requir Services).	ding Coordinate is 158 E ements of MRP-139.(F	begrees. To Be Done With or responsible individual, contact J.
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Summary Num	Component II Class / Syster	D ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category AUG								· · · ·	
C2.G8.2.0003	2RPV-202-121	ICSE							
	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									
1			Nozzle to Sal	e End					
			RV Outlet Noz C2.B9.11.000 Bare Metal Vis M. Shuping, A	zzle To Safe 9. sual Examin Iloy 600 Eng	End At 338 E ation by VT-2 gineer Nuclea	egrees (Lo qualified in: r Technical	op C). Reactor Bu spector per require Services).	ilding Coordinate is 2 ements of MRP-139.	202 Degrees. To Be Done With (For responsible individual, contact J.
C2.G8.2.0004	2RPV-202-121	DSE	······································	•			<u>.</u>	•	· · · ·
· ·	Class 1 NC	E 8871-171-009	NDE-68	VT-2	SS-CS		2.625 / 29.000	·	G08.002.004
Circumferential		CNM 2201.01-74/5						•	
Terminal End		CNM 2201.01-0205					1.0°	· · ·	· · · · · · · ·
Dissimilar							* *		. ·
	•		Nozzle to Sat	e End				•	
		· · · · · ·	C2.B9.11.001 Bare Metal Via M. Shuping, A	zzie To Safe 3. sual Examin Illoy 600 Eng	ation by VT-2 gineer Nuclea	egrees (Lo qualified in r Technical	op D). Reactor Bu spector per require Services).	ements of MRP-139.	(For responsible individual, contact J.
Category B-G-2							•		
C2.B7.10.0001	2RPV-CETNA	-74			٠				· · · · · · · · · · · · · · · · · · ·
	Class 1 NC		NDE-62	VT-1	SS 2		See Comments	y* • ·	
		CNM-2201.01-74 007			× 1		1. S.		· · · · · · · · · · · · · · · · · · ·
	· .	E-2005979-156-009 03	·			•			· · · · · · · · · · · · · · · ·
			Core Exit The 009 03) and G Reassembly F	rmocouple N Frayloc Stud Procedure M	Nozzle Assem s/Nuts. For lo P/2/A/7150/1	bly (CETNA cation of Cl 15, Enclosu	474). Perform V ETNA #74, see Co re 13.1.	T-1 on Hold Down No pre Exit Thermocoup	ut (Item 4 Dwg. No. E-2005979-156- le Nozzle Disassembly and
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 The 009 03) and G Reassembly F	rmocouple N Frayloc Stud Procedure M	Nozzle Assem s/Nuts. For lo P/2/A/7150/1	bly (CETNA cation of CI 15, Enclosu	475). Perform V ETNA #75, see Co re 13.1.	T-1 on Hold Down Nu pre Exit Thermocoup	ut (Item 4 Dwg. No. E-2005979-156- le Nozzle Disassembly and
		·	· , .						· · · · · · · · · · · · · · · · · · ·

Summary Num	Component I Class / Syste	D ISO/DWG Numbers m	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	0.04.0004.04.74.007	NDE-62	VT-1	SS		See Comments		
		CNM-2201.01-74 007 E-2005979-156-009 03				·			
			Core Exit The 009 03) and (Reassembly	ermocouple N Grayloc Stud: Procedure M	lozzle Assem s/Nuts. For le P/2/A/7150/1	bly (CETNA ocation of C 15, Enclosu	A #76). Perform VT ETNA #76, see Co ire 13.1.	F-1 on Hold Down Nut (ire Exit Thermocouple I	Item 4 Dwg. No. E-2005979-156- Nozzle Disassembly and
C2.B7.10.0004	2RPV-CETNA	-77					· · · · · · · · · · · · · · · · · · ·		
	Class 1 NC		NDE-62	VT-1	SS		See Comments		
,		CNM-2201.01-74 007 E-2005979-156-009 03							
•			Core Exit The 009 03) and (Reassembly (ermocouple N Grayloc Studs Procedure M	lozzle Assem s/Nuts. For lo P/2/A/7150/1	ibly (CETNA ocation of C 15, Enclosu	A #77). Perform V1 ETNA #77, see Co ire 13.1.	r-1 on Hold Down Nut (re Exit Thermocouple i	Item 4 Dwg. No. E-2005979-156- Nozzle Disassembly and
C2.B7.10.0005	2RPV-CETNA	-78							
	Class 1 NC		NDE-62	VT-1	SS		See Comments		
		CNM-2201.01-74 007 E-2005979-156-009 03			•				
			Core Exit The 009 03) and (Reassembly	ermocouple N Grayloc Stud: Procedure M	lozzle Assem s/Nuts. For k P/2/A/7150/1	bly (CETNA ocation of C 15, Enclosu	A #77). Perform VI ETNA #77, see Co ire 13.1.	I-1 on Hold Down Nut (re Exit Thermocouple I	Item 4 Dwg. No. E-2005979-156- Nozzle Disassembly and
C2.B7.30.0003	2SGB-MW-W-	-X							
	Class 1 NC		NDE-62	VT-1	CS		0.000 / 1.880		B07.030.00
		CNM 2201.01-59/1 CNM 2201.01-106/1							· .
			Steam Gener Material.	ator 2B Man	way Bolting (*	16 Studs an	d Nuts). Primary M	anway in W-X Quadrar	nt (Inlet Side). Examine All Bolting
C2.B7.30.0004	2SGB-MW-Z-\	N						· · · · · · · · · · · · · · · · · · ·	
	Class 1 NC		NDE-62	VT-1	CS		0.000 / 1.880	•	B07.030.004
		CNM 2201.01-59/1 CNM 2201.01-106/1	•				·		
		• •	Steam Gener Material.	ator 2B Man	way Bolting (*	16 Studs an	d Nuts). Primary N	lanway in Z-W Quadra	nt (Outlet Side). Examine All Bolting
· · ·									· · · ·
		· .							

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componen	et 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	g (4 Studs, 8	Nuts). Exam	ine All Bolti	ng 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.	.050.01€
			Flange Bolting	g (8 Studs, 1	6 Nuts). Exa	mine All Bol	ting 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	g (4 Studs, 8	Nuts). Exam	ine All Bolti	ng 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 Nu	uts). Examine	e All Studs /	And Nuts. Inspect	Only One Valve In 1	his 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		B09.0)11.042, 11.0424
Circumferential		CN-ISIN3-2553-1.0							500.0	
			Elbow to Pipe	e						
			Procedure NE used , then th	DE-600 uses the calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure P d.	PDI-UT-2 may be use	d in lieu of NDE-600. If PDI-UT-2 is	5
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Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	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	e						
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibrith	ation. Procedure d.	PDI-UT-2 may be used	in lieu of NDE-600.	If PDI-UT-2 is
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 Elbov	v						
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibration	ation. Procedure d.	PDI-UT-2 may'be used i	in lieu of NDE-600.	If PDI-UT-2 is
C2.B9.11.0043	2NC26-4									analy and the second
	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 Elbov	v						
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibration in the second s	ation. Procedure d.	PDI-UT-2 may be used i	in lieu of NDE-600.	If PDI-UT-2 is
C2.B9.11.0046	2NC33-14									
	Class 1 NC	CN-2NC-33	NDE-35	PT	SŚ	160	0.513 / 4.000			B09.011.046, B09.011.046A
Circumferential		CN-ISIN3-2553-1.1								
			Elbow to Pipe Procedure ND used , then th	e E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure I J.	PDI-UT-2 may be used i	in lieu of NDE-600.	If PDI-UT-2 is
			· .							

Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	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	9					
			Procedure NC used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr	ation. Procedure d.	PDI-UT-2 may be used in lieu	u of NDE-600. If PDI-UT-2 is
C2.B9.11.0048	2NC33-2								·
	Class 1 NC	CN-2NC-33	NDE-35	PT	SS	160	0.531 / 4.000		B09.011.048, B09.011.048A
Circumferential		CN-ISIN3-2553-1.1							· .
			Pipe to Elbov	V					
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
C2.B9.11.0048	2NC33-2	•							
	Class 1 NC	CN-2NC-33 CN-1SIN3-2553-1.1	PDI-UT-2	UT	SS	160	0.531 / 4.000	Component PDI-UT-2-C	B09.011.048, B09.011.048A
Circumferential									
			Pipe to Elbov	v					
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
C2.B9.11.0049	2NC42-11								
	Class 1 NC	CN-2NC-42	NDE-35	PT	SS	140	1.125 / 12.000		B09.011.049, B09.011.049A
Circumferential	¥.	CN-ISIN3-2553-1.0							
			Tee to Elbow	•					
		· ·	Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	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,
Circumferential		CN-ISIN3-2553-1.0						PDI-UT-2-C	B09.011.0494
Circumerential									
			Tee to Elbow	,					
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ration. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
C2.B9.11.0050	2NC42-12		·						
•	Class 1 NC	CN-2NC-42	NDE-35	PT	SS	140	1.125 / 12.000		B09.011.050,
Circumferential		CN-ISIN3-2553-1.0					•		B09.011.050A
			Elbow to Pipe	e					
			Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ration. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
C2.B9.11.0050	2NC42-12								
	Class 1 NC	CN-2NC-42 CN-ISIN3-2553-1.0	PDI-UT-2	UT	SS	140	1.125 / 12.000	Component PDI-UT-2-C	B09.011.050, B09.011.050A
Circumferential							·		
			Elbow to Pipe	9					
		•	Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
C2.B9.11.0074	2ND67-11	• *			~			<u> </u>	· · · ·
	Class 1 ND	CN-2ND-67	NDE-35	PT	SS	140	1.125 / 12.000		B09.011.105,
Circumferential		CN-ISIN3-2561-1.0						· · · ·	B09.011.105A
		•	Elbow to Pine	.					
			Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Component ID Class / Systen) ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks		Componenet ID 2
2ND67-11		11 189 <u>0</u>		<u> </u>		~			
Class 1 ND	CN-2ND-67	PDI-UT-2	UT	SS	140	1.125 / 12.000	Component		B09.011.105,
	CN-ISIN3-2561-1.0						PDI-UT-2-C		B09.011.1054
		Elbow to Pip	e						
		Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	ent for calibr shall be use	ration. Procedure I d.	PDI-UT-2 may be used	in lieu of NDE-600.	If PDI-UT-2 is
2ND67-8									
Class 1 ND	CN-2ND-67	NDE-35	PT	SS	140	1.125 / 12.000			B09.011.106, B09.011.106A
	CN-ISIN3-2561-1.0								
		Pipe to Elboy	v	•			. •	• • • •	
		Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used	in lieu of NDE-600.	If PDI-UT-2 is
2ND67-8									
Class 1 ND	CN-2ND-67	PDI-UT-2	UT	SS	140	1.125 / 12.000	Component		B09.011.106,
	CN-ISIN3-2561-1.0						PDI-UT-2-C	x	B09.011.100/
		Pipe to Elboy	v						
		Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibr	ation. Procedure I d.	PDI-UT-2 may be used	in lieu of NDE-600.	If PDI-UT-2 is
2ND67-9								÷ _	
Class 1 ND	CN-2ND-67	NDE-35	РТ	SS	140	1.125 / 12.000			B09.011.107, B09.011.1074
	CN-ISIN3-2561-1.0								
		Elbow, to Pipe	•				•		
		Procedure NE used , then th	∍)E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used	in lieu of NDE-600.	If PDI-UT-2 is
							·		
	Component IE Class / System 2ND67-11 Class 1 ND 2ND67-8 Class 1 ND 2ND67-8 Class 1 ND 2ND67-9 Class 1 ND	Component ID Class / SystemISO/DWG Numbers Class / System2ND67-11 Class 1ND ND CN-2ND-67 CN-ISIN3-2561-1.02ND67-8 Class 1ND ND CN-2ND-67 CN-ISIN3-2561-1.02ND67-8 Class 1ND ND CN-2ND-67 CN-ISIN3-2561-1.02ND67-9 Class 1ND ND CN-2ND-67 CN-ISIN3-2561-1.0	Component ID Class / SystemISO/DWG NumbersProcedure Description Comments2ND67-11 Class 1 NDCN-2ND-67 CN-ISIN3-2561-1.0PDI-UT-22ND67-8 Class 1 NDCN-2ND-67 CN-ISIN3-2561-1.0Pipe to Elbow Procedure ND used , then th2ND67-8 Class 1 NDCN-2ND-67 CN-ISIN3-2561-1.0Pipe to Elbow Procedure ND used , then th2ND67-8 Class 1 NDCN-2ND-67 CN-ISIN3-2561-1.0PDI-UT-22ND67-8 Class 1 NDCN-2ND-67 CN-ISIN3-2561-1.0PDI-UT-22ND67-9 Class 1 NDCN-2ND-67 CN-ISIN3-2561-1.0Pipe to Elbow Procedure ND used , then th2ND67-9 Class 1 NDCN-2ND-67 CN-ISIN3-2561-1.0Pipe to Elbow Procedure ND used , then th	Component ID Class / System ISO/DWG Numbers Procedure Description Comments Insp Req Description Comments 2ND67-11 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT Elbow to Pipe Procedure NDE-600 uses used , then the calibration Elbow to Pipe Procedure NDE-600 uses used , then the calibration 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 NDE-35 PT 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT 2ND67-9 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 Pipe to Elbow Procedure NDE-600 uses used , then the calibration 2ND67-9 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 NDE-35 PT Elbow to Pipe Procedure NDE-600 uses used , then the calibration Elbow to Pipe Procedure NDE-600 uses used , then the calibration	Component ID Class / System ISO/DWG Numbers Procedure Description Comments Insp Req Material Material Description Comments 2ND67-11 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT SS 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT SS 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 NDE-35 PT SS 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 Pipe to Elbow Procedure NDE-600 uses the compone used , then the calibration block listed s 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT SS 2ND67-9 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 Pipe to Elbow Procedure NDE-600 uses the compone used , then the calibration block listed s 2ND67-9 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 NDE-35 PT SS 2ND67-9 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 Elbow to Pipe Procedure NDE-600 uses the compone used , then the calibration block listed s	Component ID Class / System ISO/DWG Numbers Procedure Insp Req Material Sched 2ND67-11 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT SS 140 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT SS 140 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT SS 140 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 NDE-35 PT SS 140 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 Pipe to Elbow Procedure NDE-600 uses the component for calibrit used, then the calibration block listed shall be use 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT SS 140 Pipe to Elbow Procedure NDE-600 uses the component for calibrit used, then the calibration block listed shall be use 2ND67-9 2ND67-9 S 140 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PIE-35 PT S 140 Elbow to Pipe Procedure NDE-600 uses the component for calibrit used, then the calibration block listed shall be use Elbow to Pipe Procedure NDE-600 uses the component for calibrit used, then the calibration block listed shall be use	Component ID Class / System ISO/DWG Numbers Description Comments Procedure Description Comments Insp Req Material Sched Thick/NPS 2ND67-11 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT SS 140 1.125 / 12.000 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PDI-UT-2 UT SS 140 1.125 / 12.000 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 NDE-35 PT SS 140 1.125 / 12.000 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 NDE-35 PT SS 140 1.125 / 12.000 2ND67-8 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure I used , then the calibration block listed shall be used. 2ND67-9 Class 1 ND CN-2ND-67 CN-ISIN3-2561-1.0 PIpe to Elbow Procedure NDE-600 uses the component for calibration. Procedure I used , then the calibration block listed shall be used. 2ND67-9 Class 1 ND CN-2ND-67 NDE-35 PT S 140 1.125 / 12.000 CN-ISIN3-2561-1.0 Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure I used , then the calibration block listed shall b	Component ID ISO/DWG Numbers Procedure Insp Req Material Sched Thick/NPS Cal Blocks 2ND67-11 Class 1 ND CN-2ND-67 PDI-UT-2 UT SS 140 1.125 / 12.000 Component Class 1 ND CN-SIN3-2561-1.0 PDI-UT-2 UT SS 140 1.125 / 12.000 Component ZND67-8 Class 1 ND CN-ZND-67 NDE-35 PT SS 140 1.125 / 12.000 Component ZND67-8 Class 1 ND CN-2ND-67 NDE-35 PT SS 140 1.125 / 12.000 CN-ISIN3-2561-1.0 Pipe to Elbow Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used used , then the calibration block listed shall be used. 2ND67-8 Class 1 ND CN-2ND-67 PDI-UT-2 UT SS 140 1.125 / 12.000 Component PDI-UT-2 may be used used , then the calibration block listed shall be used. 2ND67-9 Class 1 ND CN-2ND-67 PDI-UT-2 UT SS 140 1.125 / 12.000 Component PDI-UT-2 may be used used , then the calibration block listed shall be used.	Component ID ISO/DWG Numbers Procedure insp Req Description Comments Material Sched Thick/NPS Cal Blocks 2N067-11 Class 1 ND CN-2ND-67 PDI-UT-2 UT SS 140 1.125 / 12.000 Component PDI-UT-2-C 2N067-11 Class 1 ND CN-2ND-67 PDI-UT-2 UT SS 140 1.125 / 12.000 Component PDI-UT-2-C 2N067-8 Elbow to Pipe Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. used , then the calibration block listed shall be used. 1.125 / 12.000 2N067-8 Class 1 ND CN-2ND-67 NDE-35 PT SS 140 1.125 / 12.000 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. used , then the calibration block listed shall be used. 2ND67-8 Class 1 ND CN-2ND-67 PDI-UT-2 UT SS 140 1.125 / 12.000 Component PDI-UT-2 2ND67-9 Class 1 ND CN-2ND-67 PDI-UT-2 UT SS 140 1.125 / 12.000 Component PDI-UT-2 2ND67-9 Class 1 ND CN-2ND-67 <t< td=""></t<>

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Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component l Class / Syste	ID ISO/DWG Numbers m	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	e					
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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 ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be used	ation. Procedure I d.	PDI-UT-2 may be used in lieu	u of NDE-600. If PDI-UT-2 is
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 ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be used	ation. Procedure I d.	PDI-UT-2 may be used in lieu	u of NDE-600. If PDI-UT-2 is
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 ND used , then the	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure I d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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Summary Num	Component II Class / Syster) ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category B-J									н. С. С. С
C2.B9.11.0105	2NI70-1							-	
	Class 1 NI	CN-2NI-70	NDE-600	UT	SS	160	0.719 / 6.000	Component	B09.011.179,
Circumferential		CN-ISIN3-2562-1.3						PDI-UT-2-C	B09.011.179A
			Elbow to Pipe	9 ·					
			Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibration in the second s	ation. Procedure d.	PDI-UT-2 may be used in l	ieu of NDE-600. If PDI-UT-2 is
C2.B9.11.0106	2NI70-4								· · · · ·
	Class 1 NI	CN-2NI-70	NDE-35	PT	SS	160	0.719 / 6.000		B09.011.180,
Circumferential		CN-ISIN3-2562-1.3							D09.011.180/
			Valve 2NI175	to Pipe					
			Procedure ND used , then th)E-600 uses e calibration	the compone block listed s	nt for calibra	ation. Procedure	PDI-UT-2 may be used in li	eu of NDE-600. If PDI-UT-2 is
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 NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure	PDI-UT-2 may be used in li	eu of NDE-600. If PDI-UT-2 is
C2.B9.11.0111	2NI75-6								
	Class 1 NI	CN-2NI-75	NDE-35	PT	SS	160	0.719 / 6.000		B09.011.185,
Circumferential		CN-ISIN3-2562-1.3		·					B09.011.1837
			Pipe to Elbov	v					•
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure 1.	PDI-UT-2 may be used in li	eu of NDE-600. If PDI-UT-2 is
			· · ·						·
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							•		• •
Category B-J									
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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-U1-2-C Circumferential	B03.011.100F								
Pipe to Elbow									
Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of NDE-600. used , then the calibration block listed shall be used.	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. I used, then the calibration block listed shall be used.	f PDI-UT-2 is								
C2.B9.11.0112 2NI75-8									
Class 1 NI CN-2NI-75 PDI-UT-2 UT SS 160 0.719 / 6.000 Component CN-ISIN3-2562-1.3 PDI-UT-2-C	B09.011.186, 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. used , then the calibration block listed shall be used.	f PDI-UT-2 is								
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									
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									
Pipe to Valve 2NV041									

Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2		
Category B-J							•				
C2.B9.21.0032	2NV209-RCP2	2A-1									
	Class 1 NV	CN-2NV-209	NDE-35	PT	SS	80	0.200 / 1.500		B09.021.105		
Circumferential		CNM 1201.01-151 CNM 1201.01-0115 002									
			Pipe to Fland	je							
		·	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	0/ 1 D 1/								
			Stub Barrel to	Lower Shell	Barrel Pc 3 1	To Lower Sh					
C2 C1 10 0001	25GB-03-04A		Glean Gener								
02.01.10.0001	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 Gener	ator 2B Stub	Barrel Pc.3 1	To Lower Sh	nell 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	o Transition C	one						
			Steam Gener	ator 2C Lowe	r Shell Pc.4E	3 To Transit	ion Cone Pc.5.				
C2.C1.10.0002	2SGC-04B-05										
Circumferential	Class 2 NC	CN-ISIN3-2553-1.0 CNM 2201.01-59 CNM 2201.01 <u>.</u> 102	NDE-640	UT	CS		3.060 / 0.000	5135230	C01.010.002		
			Lower Shell to	o Transition C	one	.*	·				
	7		Steam Gener	ator 2C Lowe	r Shell Pc.4E	3 To Transit	ion Cone Pc.5.				

Summary Num	Component IE Class / Systen) ISO/DWG Numbers n	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2		
Category C-A		· · · ·							· · · · · · · · · · · · · · · · · · ·		
C2.C1.10.0003	2SGD-05-06A								· · · · ·		
Circumferential	Class 2 NC	CN-ISIN3-2553-1.0 CNM 2201.01-59 CNM 2201.01-102	NDE-640	UT	CS	×	4.000 / 0.000	50366	C01.010.00		
		· .	Transition Co	ne to Upper :	Shell						
			Steam Generator 2D Transition Cone Pc.5 To Upper Shell Pc.6A.								
C2.C1.10.0003	2SGD-05-06A										
Circumferential	Class 2 NC	CN-ISIN3-2553-1.0 CNM 2201.01-59 CNM 2201.01-102	NDE-820	UT	CS		4.000 / 0.000	50366	C01.010.005		
			Transition Co	ne to Upper \$	Shell						
			Steam Generator 2D Transition Cone Pc.5 To Upper Shell Pc.6A.								
C2.C1.10.0007	2ARHRHX-5-9						•				
Circumferential	Class 2 ND	CN-ISIN3-2561-1.0 CNM 1201.06-38	NDE-68	VT-2	SS		0.875 / 44.000		C01.010.007		
			Shell to Fland	e							
			Residual Hea	t Removal He	eat Exchange	r 2A Shell P	c.5 To Flange P	c.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 wil Addendum C:	ll be performe 2-PT-031、A	ed under the l VT-2 visual e	Pressure tes xam will be	et Program. Refe performed for thi	erence Drawing Number C is weld.	N-ISIL3-2561-1.0 and Plan		

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description	Insp Req	Mâterial	Sched	Thick/NPS	Cal Blocks		Componenet ID 2
Category C-A			Comments							
C2.C1.10.0011	2BRHRHX-5-9)								
Circumferential	Class 2 ND	CN-ISIN3-2561-1.1 CNM 1201.06-38	NDE-68	VT-2		ł	0.875 / 44.000			C01.010
			Residual Hea	it Removal H	leat Exchange	er 2B Shell Pc.	.5 To Flange Po	.9.		
			Code Case N The Residual will receive a (Record Rete	I-706 has bee Heat Remov VT-2 exam c Intion Code #	en incorporate val Heat Exch once each per # 000252)	ed for use duri langer 2B She riod. For addit	ng the Third Int Il Pc.5 To Flang ional informatic	erval which allows a le Pc.9. is inside the n, reference PIP#G-	n alternative exam Class 2 Pressure -08-00480 and Fil	n (VT-2) for this weld. Test Boundary and e No. CN-1212.03
			If evidence of evaluation ca or configuration	f leakage is d n be perform on if leakage	letected for th ied. Use of th has been de	nis item during nis code case s tected.	system leakag shall be discont	e test, the NDE Plan inued for the heat ex	Manager will be kchangerand othe	notified of leakage so rs of the same design
			This exam wi Addendum C	ll be perform 2-PT-031. A	ed under the VT-2 visual e	Pressure test exam will be pe	Program. Refe erformed for thi	rence Drawing Numl s weld.	ber CN-ISIL3-256	1-1.1 and Plan
C2.C1.20.0001	2SGD-06B-07									
Circumferential	Class 2 NC	CN-ISIN3-2553-1.0 CNM 2201.01-59	NDE-820	UT	cs		3.890 / 0.000	50366		C01.020.001
		CNM 2201.01-102								
			Steam Gener 6 may be use	ator 2D Upp ator 2D Upp d in lieu of P	u er Shell Pc.6E Procedure NDI	3 To Upper He E-620.	ad Pc.7. Deper	nding upon the exam	iner's qualificatio	ns, Procedure PDI-UT-
C2.C1.20.0001	2SGD-06B-07									
Circumferential	Class 2 NC	CN-ISIN3-2553-1.0 CNM 2201.01-59 CNM 2201.01-102	NDE-640	. UT	CS.		3.890 / 0.000	50366	•	C01.020.001
			Upper Shell t	o Upper Hea	d					
			Steam Gener 6 may be use	ator 2D Uppe d in lieu of P	er Shell Pc.6E rocedure ND	3 To Upper He E-620	ad Pc.7. Deper	nding upon the exam	iner's qualification	ns, Procedure PDI-UT-

Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
C2.C1.20.0004	2REGHX-SH1	-HD1					-		
Circumferential	Class 2 NV	CN-ISIN3-2554-1.0 CNM 1201.06-31 CNM 1201.06-83	NDE-68	VT-2	SS		1.070 / 10.900		C01.020.004
			Shell to Head	l					
			Regenerative	Heat Exchar	nger (Shell 1)	. Shell (1) P	c.3 to Head (1) Po	c.5.	
			Code Case N The Regener will receive a (Record Rete	I-706 has bee ative Heat Ex VT-2 exam o ntion Code #	en incorporate changer (Sh nce each per 000252)	ed for use di ell 1). Shell (riod. For ad	uring the Third Inte (1) Pc.3 to Head (ditional informatio	erval which allows an altern 1) Pc.5 is inside the Class 2 n, reference PIP#G-08-004	ative exam (VT-2) for this weld. 2 Pressure Test Boundary and 80 and File No. CN-1212.03
			If evidence of evaluation ca or configuration	leakage is d n be perform on if leakage	etected for th ed. Use of th has been de	iis item durir his code cas tected.	ng system leakage e shall be discont	e test, the NDE Plan Manag inued for the heat exchange	er will be notified of leakage so erand others of the same design
			This exam wi Addendum C	ll be performe 2-PT-031. A	ed under the VT-2 visual e	Pressure te exam will be	st Program. Refe performed for this	rence Drawing Number CN s weld.	-ISIL3-2554-1.0 and Plan
C2.C1.20.0005	2REGHX-SH1	-HD2						· ·	
Circumferential	Class 2 NV	CN-ISIN3-2554-1.0 CNM 1201.06-83 CNM 1201.06-31	NDE-68	VT-2	SS		1.070 / 10.900		C01.020.00£
			Shell to Head	l	•				
			Regenerative	Heat Exchar	nger (Shell 1)	. Shell (1) P	c.2 to Head (2) Po	c.5.	
			Code Case N The Regenera will receive a (Record Rete	-706 has bee ative Heat Ex VT-2 exam o ntion Code #	en incorporate schanger (She nce each pei 000252)	ed for use di ell 1). Shell (riod. For ad	uring the Third Inte (1) Pc.2 to Head (ditional informatio	erval which allows an altern 2) Pc.5 is inside the Class 2 n, reference PIP#G-08-004	ative exam (VT-2) for this weld. 2 Pressure Test Boundary and 80 and File No. CN-1212.03
			If evidence of evaluation ca or configuration	leakage is d n be perform on if leakage	etected for th ed. Use of th has been de	iis item durir iis code cas tected.	ng system leakage e shall be discont	e test, the NDE Plan Manag inued for the heat exchange	er will be notified of leakage so erand others of the same design
			This exam wil Addendum C	ll be performe 2-PT-031.A	ed under the VT-2 visual e	Pressure te: exam will be	st Program. Refer performed for this	rence Drawing Number CN- s weld.	ISIL3-2554-1.0 and Plan

Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A			oonnonto						
C2.C1.20.0006	2REGHX-SH2	-HD1	<u>-</u>						
Circumferential	Class 2 NV	CN-ISIN3-2554-1.0 CNM 1201.06-83 CNM 1201.06-31	NDE-68	VT-2	SS		1.070 / 10.900		C01.020.006
			Shell to Head	l					
			Regenerative	Heat Exchar	nger (Shell 2)	. Shell (2) P	c.3 to Head (1) P	c.5.	
			Code Case N The Regener will receive a (Record Rete	I-706 has bee ative Heat Ex VT-2 exam o ntion Code #	en incorporate changer (She nce each per 000252)	ed for use du ell 2). Shell (riod. For ad	ring the Third Int 2) Pc.3 to Head (ditional informatio	erval which allows an alte 1) Pc.5 is inside the Clas n, reference PIP#G-08-0	ernative exam (VT-2) for this weld. as 2 Pressure Test Boundary and 10480 and File No. CN-1212.03
			If evidence of evaluation ca or configuration	leakage is de n be performe on if leakage	etected for th ed. Use of th has been def	is item durir iis code cas ected.	ig system leakage e shall be discont	e test, the NDE Plan Mar inued for the heat exchai	nager will be notified of leakage so ngerand others of the same design
	-		This exam wi Addendum C	ll be performe 2-PT-031. A	ed under the VT-2 visual e	Pressure tes exam will be	t Program. Refe performed for this	rence Drawing Number C s weld.	CN-ISIL3-2554-1.0 and Plan
C2.C1.20.0007	2REGHX-SH2	-HD2							
Circumferential	Class 2 NV	CN-ISIN3-2554-1.0 CNM 1201.06-83 CNM 1201.06-31	NDE-68	VT-2	SS		1.070 / 10.900		C01.020.007
			Shell to Head						
			Regenerative	Heat Exchar	nger (Shell 2)	. Shell (2) P	c.2 to Head (2) Po	c.5 <i>.</i>	
		,	Code Case N The Regenera will receive a (Record Rete	-706 has bee ative Heat Ex VT-2 exam o ntion Code #	en incorporate changer (She nce each per 000252)	ed for use du ell 2). Shell (iod. For add	ring the Third Inte 2) Pc.2 to Head (ditional informatio	erval which allows an alte 2) Pc.5 is inside the Clas n, reference PIP#G-08-0	ernative exam (VT-2) for this weld. s 2 Pressure Test Boundary and 0480 and File No. CN-1212.03
			If evidence of evaluation ca or configuratio	leakage is do n be performe on if leakage	etected for th ed. Use of th has been det	is item durir is code case ected.	g system leakage shall be discont	e test, the NDE Plan Mar inued for the heat exchar	nager will be notified of leakage so ngerand others of the same design
	·		This exam wi Addendum C	ll be performe 2-PT-031,A	ed under the l VT-2 visual e	Pressure tes exam will be	t Program. Refe performed for this	rence Drawing Number C s weld.	CN-ISIL3-2554-1.0 and Plan

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Componenet ID :	Cal Blocks	Thick/NPS	Sched	Material	Insp Req	Procedure Description Comments	ISO/DWG Numbers	Component ID Class / System	Summary Num
									Category C-A
							D1	2REGHX-SH3-H	C2.C1.20.0008
C01.020.0		1.070 / 10.900		SS	VT-2	NDE-68	CN-ISIN3-2554-1.0 CNM 1201.06-83 CNM 1201.06-31	Class 2 NV	Circumferential
						Shell to Head			
	.5.	c.3 to Head (1) Pc	Shell (3) Po	ger (Shell 3)	Heat Exchan	Regenerative			
ernative exam (VT-2) for this weld. ss 2 Pressure Test Boundary and 00480 and File No. CN-1212.03	erval which allows an alte I) Pc.5 is inside the Class n, reference PIP#G-08-00	ring the Third Inte 3) Pc.3 to Head (1 ditional informatior	d for use du ell 3). Shell (iod. For add	n incorporate changer (She nce each per 000252)	706 has bee itive Heat Ex VT-2 exam o ition Code #	Code Case N The Regenera will receive a (Record Rete	^х	·	
nager will be notified of leakage so ngerand others of the same design	test, the NDE Plan Mana nued for the heat exchan	g system leakage e shall be discontii	is item durin is code case ected.	etected for th ed. Use of th nas been det	leakage is de be performe in if leakage	If evidence of evaluation car or configuration			
CN-ISIL3-2554-1.0 and Plan	ence Drawing Number Cl weld.	t Program. Reference performed for this	Pressure tes xam will be	d under the l VT-2 visual e	be performe P-PT-031. A	This exam wil Addendum C			
							D2	2REGHX-SH3-H	C2.C1.20.0009
C01.020.0		1.070 / 10.900		SS	VT-2	NDE-68	CN-ISIN3-2554-1.0 CNM 1201.06-83 CNM 1201.06-31	Class 2 NV (Circumferential
					•	Shell to Head			
· · · · · · · · · · · · · · · · · · ·	.5.	c.2 to Head (2) Pc	Shell (3) Po	ger (Shell 3)	Heat Exchan	Regenerative			
ernative exam (VT-2) for this weld. ss 2 Pressure Test Boundary and 00480 and File No. CN-1212.03	erval which allows an alter 2) Pc.5 is inside the Class n, reference PIP#G-08-00	ring the Third Inte 3) Pc.2 to Head (2 ditional informatior	d for use du ell 3). Shell (iod. For ado	n incorporate changer (She nce each per 000252)	706 has bee tive Heat Ex /T-2 exam of tion Code #	Code Case N The Regenera will receive a (Record Rete	÷		
nager will be notified of leakage so ngerand others of the same design	test, the NDE Plan Mana nued for the heat exchan	g system leakage e shall be discontii	is item durin is code case ected.	etected for th d. Use of th has been det	leakage is de 1 be performe 1 if leakage i	If evidence of evaluation car or configuratio			
CN-ISIL3-2554-1.0 and Plan	ence Drawing Number Cl	t Program. Refer	Pressure tes	d under the l	be performe	This exam wil			

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks		Componenet ID 2			
Category C-A			••••••••										
C2.C1.20.0013	2ARHRHX-5-6												
Circumferential	Class 2 ND	CN-ISIN3-2561-1.0 CNM 1201.06-38	NDE-68	VT-2	SS		0.770 / 44.000		•	C01.020.012			
			Shell to Lower Head Residual Heat Removal Heat Exchanger 2A Shell Pc.5 to Lower Head Pc.6.										
			Code Case N The Residual and will receiv (Record Rete	Ilternative exam (V e Class 2 Pressure G-08-00480 and Fi	T-2) for this weld. • Test Boundary le No. CN-1212.03								
			If evidence of evaluation car or configuratio	leakage is do be performo on if leakage	etected for thi ed. Use of thi has been dete	s item durir s code cas ected.	ng system leakage e shall be disconti	test, the NDE Plan M nued for the heat exch	anager will be notif angerand others o	ìed of leakage so f the same design			
			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	· · · · · · · · · · · · · · · · · · ·						-		· · · · · · · · · · · · · · · · · · ·			
Circumferential	Class 2 ND	CN-ISIN3-2561-1.1 CNM 1201.06-38	NDE-68	VT-2			0.770 / 44.000			- C01.020			
			Residual Hea	t Removal He	eat Exchange	r 2B Shell F	Pc.5 to Lower Hea	d Pc.6.					
			Code Case N The Residual and will receiv (Record Rete	-706 has bee Heat Remov ve a VT-2 exa ntion Code #	en incorporate al Heat Excha am once each 000252)	d for use du anger 2B SI period. Fo	uring the Third Intenent of the tenent of	erval which allows an a Head Pc.6 is inside th ation, reference PIP#(Ilternative exam (V e Class 2 Pressure G-08-00480 and Fil	T-2) for this weld. ∍ Test Boundary le No. CN-1212.03			
			If evidence of evaluation car or configuratio	leakage is do be performe on if leakage	etected for thi ed. Use of thi has been dete	s item durir s code cas ected.	ng system leakage e shall be disconti	e test, the NDE Plan M nued for the heat exch	anager will be notif angerand others o	ied of leakage so f the same design			
			This exam wil Addendum C2	l be performe 2-PT-031. A	ed under the P VT-2 visual e	Pressure tes xam will be	st Program. Refer performed for this	ence Drawing Number weld.	r CN-ISIL3-2561-1.	1 and Plan			

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Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A			, .						
C2.C1.30.0001	2SGA-02-03								
Circumferential	Class 2 NC	CN-ISIN3-2553-1.0 CNM 2201.01-113	NDE-820	UŤ	CS		3.310 / 0.000	5135230	C01.030.001
			Tubesheet to Steam Gener	Stub Barrell	sheet Pc 2 to	Stub Barre	l Pc 3		
C2 C1 30 0001	2564-02-03								
02.01.00.0001	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 Gener	ator 2A Tube	sheet Pc.2 to	Stub Barre	I Pc.3.		
C2.C1.30.0002	2REGHX-SH1	-TS							· ·
Circumferential	Class 2 NV	CN-ISIN3-2554-1.0 CNM 1201.06-31 CNM 1201.06-83	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.002
			Shell to Tube	sheet					
			Regenerative	Heat Exchar	nger (Shell 1)	. Shell (1) P	c.3 to Tubesheet	Pc.4.	
	_		Code Case N The Regener will receive a (Record Rete	-706 has bee ative Heat Ex VT-2 exam o ntion Code #	en incorporate changer (She nce each per 000252)	ed for use du ell 1). Shell (iod. For ad	uring the Third In (1) Pc.3 to Tubes ditional information	terval which allows an alter heet Pc.4 is inside the Cla on, reference PIP#G-08-00	native exam (VT-2) for this weld. ss 2 Pressure Test Boundary and 480 and File No. CN-1212.03
			If evidence of evaluation ca or configuratio	leakage is de n be performe on if leakage	etected for th ed. Use of th has been det	is item durir is code cas tected.	ng system leakag e shall be discon	e test, the NDE Plan Mana tinued for the heat exchang	ger will be notified of leakage so gerand others of the same design
			This exam wi Addendum C	ll be performe 2-PT-031. A	ed under the l VT-2 visual e	Pressure tes exam will be	st Program. Refe performed for th	erence Drawing Number Cl is weld.	N-ISIL3-2554-1.0 and Plan
•									
				,	•				

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component I Class / Syste	D ISO/DWG Numbers m	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-A									
C2.C1.30.0003	2REGHX-SH2	-TS							
Circumferential	Class 2 NV	CN-ISIN3-2554-1.0 CNM 1201.06-83	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.003
		CNM 1201.06-31		- h i					•
·.			Shell to Tube	sneet			- O to Tubechest	De 4	
	· ·		Regenerative	Heat Exchar	nger (Snell 2)	Sneil (2) P	C.3 to Tubesneet	PC.4.	
		н н	Code Case N The Regenera will receive a (Record Reter	-706 has bee ative Heat Ex VT-2 exam o ntion Code #	en incorporate kchanger (Sho nce each per 000252)	d for use du ell 2). Shell (iod. For ad	uring the Third Int 2) Pc.3 to Tubes ditional informatio	erval which allows an alter neet Pc.4 is inside the Cla n, reference PIP#G-08-00	native exam (VT-2) for this weld. ss 2 Pressure Test Boundary and 480 and File No. CN-1212.03
		ал. С	evaluation car or configuration	n be perform on if leakage	etected for th ed. Use of th has been def	is code cas ected.	e shall be discont	inued for the heat exchang	ger and others of the same design
			This exam wil Addendum C2	I be performe 2-PT-031. A	ed under the VT-2 visual e	Pressure tes xam will be	st Program. Refe performed for thi	rence Drawing Number Cf s weld.	N-ISIL3-2554-1.0 and Plan
C2.C1.30.0004	2REGHX-SH3	-TS							
Circumferential	Class 2 NV	CN-ISIN3-2554-1.0 CNM 1201.06-83 CNM 1201.06-31	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.004
			Shell to Tube	sheet					
			Regenerative	Heat Exchar	nger (Shell 3)	Shell (3) P	c.3 to Tubesheet	Pc.4.	
· .	•.		Code Case N The Regenera will receive a (Record Rete	-706 has bee ative Heat Ex VT-2 exam o ntion Code #	en incorporate changer (She nce each per 000252)	d for use du ell 3). Shell (iod. For ad	uring the Third Int 3) Pc.3 to Tubest ditional informatio	erval which allows an alter neet Pc.4 is inside the Cla n, reference PIP#G-08-00	native exam (VT-2) for this weld. ss 2 Pressure Test Boundary and 480 and File No. CN-1212.03
			If evidence of evaluation car or configuratio	leakage is d n be perform on if leakage	etected for th ed. Use of th has been def	is item durir is code cas ected.	ng system leakage e shall be discont	e test, the NDE Plan Mana inued for the heat exchang	ager will be notified of leakage so gerand others of the same design
			This exam wil Addendum C2	l be performe 2-PT-031. A	ed under the VT-2 visual e	Pressure tes xam will be	st Program. Refe performed for this	rence Drawing Number CN s weld.	N-ISIL3-2554-1.0 and Plan

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Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2		
Category C-A											
C2.C1.30.0005	2REGHX-TS-S	SH1									
Circumferential	Class 2 NV	CN-ISIN3-2554-1.0 CNM 1201.06-83 CNM 1201.06-31	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.005		
			Tubesheet to	Shell							
			Regenerative	Heat Exchai	nger (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 evaluation ca or configurati	f leakage is d n be perform on if leakage	etected for th ed. Use of th has been def	is item durir is code cas ected.	ng system leakag e shall be discont	e test, the NDE Plan Man inued for the heat exchan	ager will be notified of leakage so gerand others of the same design		
			This exam wi Addendum C	ll be performe 2-PT-031. A	ed under the l VT-2 visual e	Pressure tes xam will be	st Program. Refe performed for thi	rence Drawing Number C s weld.	N-ISIL3-2554-1.0 and Plan		
C2.C1.30.0006	2REGHX-TS-S	SH2									
Circumferential	Class 2 NV	CN-ISIN3-2554-1.0 CNM 1201.06-83 CNM 1201.06-31	NDE-68	VT-2	SS		1.070 / 10.900		C01.030.00€		
			Tubesheet to	Shell							
			Regenerative	Heat Exchar	nger (Shell 2)	Tubesheet	Pc.4 to Shell (2)	Pc.2			
			Code Case N The Regener will receive a (Record Rete	I-706 has bee ative Heat Ex VT-2 exam c intion Code #	en incorporate kchanger (She once each per 000252)	d for use du ell 2). Tubes iod. For add	uring the Third Int heet Pc.4 to Shel ditional informatio	erval which allows an alte I (2) Pc.2 is inside the Cla n, reference PIP#G-08-00	rnative exam (VT-2) for this weld. ass 2 Pressure Test Boundary and 0480 and File No. CN-1212.03		
	·		If evidence of evaluation ca or configuratio	f leakage is d n be perform on if leakage	etected for th ed. Use of th has been det	is item durir is code case ected.	ng system leakage e shall be discont	e test, the NDE Plan Man inued for the heat exchan	ager will be notified of leakage so Igerand others of the same design		
			This exam wi Addendum C	ll be performe 2-PT-031. A	ed under the l VT-2 visual e	Pressure tes xam will be	st Program. Refe performed for this	rence Drawing Number C s weld.	N-ISIL3-2554-1.0 and Plan		

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Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componene	t ID 2
Category C-A		· •								
C2.C1.30.0007	2REGHX-TS-S	5H3 .								
Circumferential	Class 2 NV	CN-ISIN3-2554-1.0 CNM 1201.06-83 CNM 1201.06-31	NDE-68	VT-2	SS		1.070 / 10.900		. C01.0	30.007
			Tubesheet to	Shell						
			Regenerative	Heat Excha	nger (Shell 3)	. Tubesheet	Pc.4 to Shell (3)	Pc.2.		
			Code Case N The Regenera will receive a (Record Rete If evidence of	-706 has bee ative Heat E VT-2 exam c ntion Code # leakage is d	en incorporate kchanger (She once each per 000252) letected for th	ed for use du ell 3). Tubes iod. For ad is item durir	uring the Third Intender heet Pc.4 to Shel ditional information ng system leakage	erval which allows an I (3) Pc.2 is inside the n, reference PIP#G-0 e test, the NDE Plan N	alternative exam (VT-2) for this weld Class 2 Pressure Test Boundary an 8-00480 and File No. CN-1212.03 Manager will be notified of leakage s	l. h
			evaluation can or configuration	n be perform on if leakage	ed. Use of th has been def	is code cas ected.	e shall be discont	inued for the heat exc	hangerand others of the same desig	۱n
			This exam wil Addendum C	ll be perform 2-PT-031.A	ed under the l VT-2 visual e	Pressure tes exam will be	st Program. Refe performed for this	rence Drawing Numbe s weld.	er CN-ISIL3-2554-1.0 and Plan	
Category C-B									<u>.</u>	
C2.C2.21.0004	2ARHRHX-5-A									
	Class 2 ND	CNM 1201.06-38	NDE-68	VT-2	SS		0.375 / 14.000		C02.02	1.004, 1.004A
Circumferential		CN-ISIN3-2561-1.0								1.00 //
			Nozzle to She	ell						
	-		Residual Hea	t Removal H	eat Exchange	r 2A Inlet N	ozzle Pc.5 To She	ell Pc.A.		
			Code Case N The Residual and will receiv (Record Rete	-706 has bee Heat Remov ve a VT-2 ex ntion Code #	en incorporate /al Heat Exch am once each 000252)	d for use du anger 2A Ini a period. Fo	uring the Third Inte let Nozzle Pc.5 To or additional inform	erval which allows an Shell Pc.A. is inside nation, reference PIP#	alternative exam (VT-2) for this weld the Class 2 Pressure Test Boundar (G-08-00480 and File No. CN-1212.)	l. ry 03
			If evidence of evaluation car or configuratio	leakage is d n be perform on if leakage	etected for th ed. Use of th has been det	is item durir is code case ected.	ng system leakage e shall be discont	e test, the NDE Plan M inued for the heat exc	lanager will be notified of leakage so hangerand others of the same desig	o Jn
			This exam wil Addendum C2	l be perform 2-PT-031. A	ed under the l VT-2 visual e	Pressure tes xam will be	st Program. Reference performed for this	rence Drawing Numbe s weld.	r CN-ISIL3-2561-1.0 and Plan	

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Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description	Insp Req	Material	Sched	Thick/NPS	Cai Blocks	Componenet ID 2
Category C-B			Comments						х
C2.C2.21.0005	2ARHRHX-5-E	}		•				······································	
	Class 2 ND	CNM 1201.06-38	NDE-68	VT-2	SS		0.375 / 14.000		C02.021.005, C02.021.0054
Circumferential		CN-ISIN3-2561-1.1							002.02.000
			Nozzle to She	ell					
	t		Residual Hea	t Removal H	eat Exchange	er 2A Outlet	Nozzle Pc.5 To S	hell Pc.B.	
			Code Case N The Residual and will recei (Record Rete	-706 has bee Heat Remov ve a VT-2 exa ntion Code #	en incorporate val Heat Exch am once eacl 000252)	ed for use di anger 2A O h period. Fo	uring the Third Int utlet Nozzle Pc.5 or additional inform	erval which allows an alte To Shell Pc.B is inside the nation, reference PIP#G-(rnative exam (VT-2) for this weld. e Class 2 Pressure Test Boundary 08-00480 and File No. CN-1212.03
			If evidence of evaluation ca or configurati	ⁱ leakage is d n be perform on if leakage	etected for th ed. Use of th has been de	iis item durin his code cas tected.	ng system leakage e shall be discont	e test, the NDE Plan Mana inued for the heat exchan	ager will be notified of leakage so gerand others of the same design
			This exam wi Addendum C	ll be performe 2-PT-031. A	ed under the VT-2 visual e	Pressure te exam will be	st Program. Refe performed for this	rence Drawing Number C s weld.	N-ISIL3-2561-1.0 and Plan
C2.C2.21.0012	2RHRHXB-5-A								
Circumferential	Class 2 ND	CNM 1201.06-38 CN-ISIN3-2561-1.1	NDE-68	VT-2			0.375 / 14.000		C02.021
			Residual Hea	t Removal H	eat Exchange	er 2B Inlet N	ozzle Pc.5 To Sh	ell Pc.A.	
			Code Case N The Residual and will recei (Record Rete	-706 has bee Heat Remov ve a VT-2 exa ntion Code #	en incorporate ral Heat Exch am once eacl 000252)	ed for use di anger 2B In n period. Fo	uring the Third Intelet Nozzle Pc.5 Teletant	erval which allows an alte o Shell Pc.A is inside the nation, reference PIP#G-0	rnative exam (VT-2) for this weld. Class 2 Pressure Test Boundary 08-00480 and File No. CN-1212.03
			If evidence of evaluation ca or configuration	leakage is d n be perform on if leakage	etected for th ed. Use of th has been de	is item durir iis code cas tected.	ng system leakage e shall be discont	e test, the NDE Plan Man inued for the heat exchan	ager will be notified of leakage so gerand others of the same design
			This exam wi Addendum C	ll be performe 2-PT-031. A	ed under the VT-2 visual e	Pressure te exam will be	st Program. Refe performed for this	rence Drawing Number C s weld.	N-ISIL3-2561-1.1 and Plan

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Summary Num	Component II Class / Syster) ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched Thick/NI	PS Cal Blocks	Componenet ID 2
Category C-B								
C2.C2.21.0015	2BRHRHX-5-B	· · · · · · · · · · · · · · · · · · ·						
Circumferential	Class 2 ND	CNM 1201.06-38 CN-ISIN3-2561-1.1	NDE-68	VT-2	•	0.375 / 14.	000	C02.021
			Residual Hea	it Removal H	leat Exchange	r 2B Outlet Nozzle Pc.5	To Shell Pc.B.	• •
	· .		Code Case N The Residual and will recei (Record Rete	I-706 has be Heat Remo ve a VT-2 ex ntion Code #	en incorporate val Heat Exch (am once each # 000252)	d for use during the Thi anger 2B Outlet Nozzle period. For additional i	rd Interval which allows an alte Pc.5 To Shell Pc.B is inside th nformation, reference PIP#G-I	ernative exam (VT-2) for this weld. e Class 2 Pressure Test Boundary 08-00480 and File No. CN-1212.03
			If evidence of evaluation ca or configurati	f leakage is o n be perform on if leakage	detected for th ned. Use of th has been det	s item during system lea s code case shall be dia acted.	akage test, the NDE Plan Man scontinued for the heat exchar	ager will be notified of leakage so Igerand others of the same design
			This exam wi Addendum C	ll be perform 2-PT-031. A	ed under the l VT-2 visual e	Pressure test Program. xam will be performed f	Reference Drawing Number C or this weld.	N-ISIL3-2561-1.1 and Plan
Category C-C								· · · · · · · · · · · · · · · · · · ·
C2.C3.20.0010	2-R-NS-1219							
	Class 2 NS	CN-2491-NS001	NDE-35	PT	SS	0.750 / 8.0	000	C03.020.051
Rigid Restraint		CN-ISIN3-2563-1.0 CN-1678-14						
			Inpingement	Ring must be	e removed			•
C2.C3.20.0013	2-A-NV-3684	······						
	Class 2 NV	CN-2492-NV150	NDE-35	PŤ	SS	0.438 / 3.0	000	C03.020.062
Rigid Restraint		CN-ISIN3-2554-1.1						
C2.C3.30.0001	2RHRPA-LUG	S						
	Class 2 ND	CN-ISIN3-2561-1.0 CNM 1201.05-289	NDE-35	PT	SS	0.000 / 0.0	000	C03.030.001
		CNM 1201.05-0318						
		CNM 1201.05-0318	Lugs to Casir	g				

Summary Num	Component IE Class / Systen	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,
Circumferential		CN-ISIN3-2592-1.1							C05.011.013#
			Pipe to Elbow	N					
		н Тарана Тарана Тарана Тарана Тарана Тарана	Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lie	u of NDE-600. If PDI-UT-2 is
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 Elbov	v				· .	
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lie	u of NDE-600. If PDI-UT-2 is
C2.C5.11.0014	2CA156-31	· · · · · · · · · · · · · · · · · · ·							
	Class 2 CA	CN-2CA-156	NDE-35	PT	SS	80	0.432 / 6.000		C05.011.014, C05.011.0144
Circumferential		CN-ISIN3-2592-1.1							000.011.014
			Elbow to Pipe	9					
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lie	u of NDE-600. If PDI-UT-2 is
C2.C5.11.0014	2CA156-31	, . E 1						· · · · · · · · · · · · · · · · · · ·	
	Class 2 CA	CN-2CA-156	PDI-UT-2	UT	SS	80	0.432 / 6.000	Component	C05.011.014,
Circumferential		CN-ISIN3-2592-1.1						PDI-01-2-C	000.011.014
			Elbow to Pipe	a					
			Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lier	u of NDE-600. If PDI-UT-2 is

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	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,
Circumferential		CN-ISIN3-2592-1.1							
cst.			Pipe to Elbov	v			, ,		
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	ent for calibr shall be use	ation. Procedure I d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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									
			Pine to Elboy	v					
			Procedure NE used , then th	•)E-600 uses e calibration	the compone block listed s	ent for calibr shall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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 Elbov	v					
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	ent for calibr shall be use	ation. Procedure I d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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 Elbov	v				·	
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	ent for calibration that has a second s	ation. Procedure I d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	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,
Circumferential		CN-ISIN3-2561-1.0								
	×		Elbow to Pipe	e						
	•		Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be	used in lieu of NDE-600.	If PDI-UT-2 is
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	e						
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be t	used in lieu of NDE-600.	If PDI-UT-2 is
C2.C5.11.0037	2ND15-17									
	Class 2 ND	CN-2ND-15	NDE-35	РТ	SS	STD	0.375 / 12.000			C05.011.153, C05.011.153A
Circumferential		CN-ISIN3-2561-1.1								•
			Pipe to Elbov	v	r					
	4 .		Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be i	used in lieu of NDE-600.	If PDI-UT-2 is
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	· · · ·									
			Procedure NE	v)E-600 uses e calibration	the compone block listed s	nt for calibr	ation. Procedure I d.	PDI-UT-2 may be u	used in lieu of NDE-600.	If PDI-UT-2 is
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Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers	Procedure Description	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1			oonnonto						
C2.C5.11.0038	2ND15-18								
	Class 2 ND	CN-2ND-15	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.154, C05.011.154/
Circumferential		CN-ISIN3-2561-1.1							
			Elbow to Pipe	e					
		• •	Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibrication in the second seco	ation. Procedure l d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
C2.C5.11.0038	2ND15-18	· · · ·			· · · · ·				
	Class 2 ND	CN-2ND-15	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component	C05.011.154,
Circumferential		CN-ISIN3-2561-1.1				•		PDI-01-2-C	000.011.104
encamorentia									
			Elbow to Pipe	Э -					
		·	Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
C2.C5.11.0039	2ND16-2								
	Class 2 ND	CN-2ND-16	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.155,
Circumferential		CN-ISIN3-2561-1.1							000.011.100
			Elbow to Pipe	•					
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
C2.C5.11.0039	2ND16-2			- · · ·					
	Class 2 ND	CN-2ND-16	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component	C05.011.155,
Circumferential		CN-ISIN3-2561-1.1						PDI-UT-2-C	C05.011.155/
		•	Elbow to Pipe	e					
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is

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Catawba 2, 3rd Interval, outage 3 (EOC-16)

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	NDE-35	PT	SS	STD	0.375 / 12.000		C05.011.156, C05.011.156A
Circumferential		CN-ISIN3-2561-1.1							
			Pipe to Elbov	N					
		•	Procedure NI used , then th	DE-600 uses le calibration	the compone block listed s	ent for calibr shall be use	ration. Procedure d.	PDI-UT-2 may be used in I	ieu of NDE-600. If PDI-UT-2 is
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	N					
			Procedure NI used , then th	DE-600 uses le calibration	the compone block listed s	ent for calibr shall be use	ration. Procedure d.	PDI-UT-2 may be used in I	ieu of NDE-600. If PDI-UT-2 is
C2.C5.11.0041	2ND16-6								
	Class 2 ND	CN-2ND-16	NDE-35	PT	SS	40	0.438 / 14.000		C05.011.157, C05.011.157A
Circumferential		CN-ISIN3-2561-1.1							
			14X12 Reduc	er to Tee					
			Procedure NE used , then the	DE-600 uses le calibration	the compone block listed s	ent for calibr shall be use	ation. Procedure [°] d.	PDI-UT-2 may be used in I	ieu of NDE-600. If PDI-UT-2 is
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 Reduc	er to Tee					
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	ent for calibr shall be use	ation. Procedure d.	PDI-UT-2 may be used in l	ieu of NDE-600. If PDI-UT-2 is

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Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description Comments	Ínsp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-1			o o nini o nio						
C2.C5.11.0042	2ND16-7								
	Class 2 ND	CN-2ND-16	NDE-35	PT	SS	40	0.438 / 14.000	_	C05.011.158,
Gircumferential		CN-ISIN3-2561-1.1		. *	÷			¢	000.011.1007
			Tee to Pipe						
			Procedure NE used , then the	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ration. Procedure d.	PDI-UT-2 may be used in lie	u of NDE-600. If PDI-UT-2 is
C2.C5.11.0042	2ND16-7								
	Class 2 ND	CN-2ND-16	PDI-UT-2	UT	SS	40	0.438 / 14.000	Component	C05.011.158, C05.011.1584
Circumferential		CIN-ISIN3-2501-1.1	· .					PDI-01-2-C	
			Tee to Pipe						
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used in lier	u of NDE-600. If PDI-UT-2 is
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 Elboy	N [,]					
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ration. Procedure I d.	PDI-UT-2 may be used in lier	u of NDE-600. If PDI-UT-2 is
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									
· · · ·	ς		Pipe to Elbov	N					
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	u of NDE-600. If PDI-UT-2 is
									· ·
				· .					
									· · · ·

Summary Num	Component IE Class / Systen	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 Elbov	N					
			Procedure NI used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
C2.C5.11.0044	2ND18-8							· · · ·	
	Class 2 ND	CN-2ND-18	PDI-UT-2	UT	SS	STD	0.375 / 12.000	Component	C05.011.160, C05.011.160A
Circumferential		CN-131N3-2501-1.1				*		FDI-01-2-C	
	-		Pipe to Elboy	N .					
			Procedure NI used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
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							
2			Elbow to Pip	e					
			Procedure NI used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ration. Procedure I d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
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 Pip	8					
		. •	Procedure NI used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
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Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	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, C05.011.1634
Circumferential		CN-ISIN3-2561-1.1							000.011.100
			Flange to Pip	be					·
		•	Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	ent for calibi shall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
C2.C5.11.0047	2ND19-9			· · ·					
	Class 2 ND	CN-2ND-19	PDI-UT-2	UT	SS	40	0.438 / 14.000	Component	C05.011.163,
Circumferential		CN-ISIN3-2561-1.1						PDI-01-2-C	000.011.100
	29					·			
			Flange to Pip	be		-			
			Procedure NE used, then th	DE-600 uses le calibration	the compone block listed s	ent for calibr shall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
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 Reduce	r to Residual	HX 2B			,	
			Residual Hea be used in lie	t Removal H u of NDE-600	eat Exchange). If PDI-UT-2	er 2B. Proc 2 is used , ti	edure NDE-600 us	ses the component for calib block listed shall be used.	ration. Procedure PDI-UT-2 may
			⁻ Code Case ⁻ N The Residual once each pe 000252)	-706 has bee Heat Remov riod. For add	en incorporate al Heat Exch ditional inform	ed for use d anger 2B is nation, refer	uring the Third Int inside the Class ence PIP#G-08-0	erval which allows an altern 2 Pressure Test Boundary a 0480 and File No. CN-1212	ative exam (VT-2) for this weld. and will receive a VT-2 exam .03 (Record Retention Code #
			If evidence of evaluation ca or configuration	leakage is d n be perform on if leakage	etected for th ed. Use of th has been det	is item duri iis code cas tected.	ng system leakag se shall be discont	e test, the NDE Plan Manag inued for the heat exchange	er will be notified of leakage so erand others of the same design
			This exam wil Addendum C	l be performe 2-PT-031. A	ed under the f VT-2 visual e	Pressure te exam will be	st Program. Refe performed for thi	rence Drawing Number CN- s weld.	-ISIL3-2561-1.1 and Plan
				. • • ·					

Summary Num	Component II Class / Syster) ISO/DWG Numbers n	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,
Circumferential		CN-ISIN3-2561-1.0							000.011.100
			12X4 Reducir	ng Tee to Pip	e				
		· .	Procedure NE used , then th	DE-600 uses the calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	u of NDE-600. If PDI-UT-2 is
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 Reducir	ng Tee to Pip	e				
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	au of NDE-600. If PDI-UT-2 is
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	Ð				-	
			Procedure NE used , then th	DE-600 uses the calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure I d.	PDI-UT-2 may be used in lie	au of NDE-600. If PDI-UT-2 is
C2.C5.11.0110	2N185-2	·····	£						· · · · · · · · · · · · · · · · · · ·
	Class 2 NI	CN-2NI-85	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component	C05.011.325, C05.011.325A
Circumferential		CIN-131113-2302-1.3						101-2-0	
			Elbow to Pipe	e					· · · · · ·
•			Procedure NE	DE-600 uses the calibration	the compone block listed s	nt for calibr	ation. Procedure I	PDI-UT-2 may be used in lie	au of NDE-600. If PDI-UT-2 is
			·	• ••••••					
		•							

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Compone Class / Sy	ent ID ysterr	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
Circumferential			CN-ISIN3-2562-1.3							000.011.020/
				Pipe to Elbov	v					Λ
				Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in	lieu of NDE-600. If PDI-UT-2 is
C2.C5.11.0111	2N185-3							•		
	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 C05.011.326
Circumferential										
				Ring to Elbou	,	•				
				Procedure NE used , then th	PE-600 uses e calibration	the compone block listed s	nt for calibr	ation. Procedure d.	PDI-UT-2 may be used in	lieu of NDE-600. If PDI-UT-2 is
C2.C5.11.0112	2N185-5									
	Class 2	NI	CN-2NI-85	NDE-35	PT	SS	160	0.719 / 6.000		C05.011.327, C05.011.327/
Circumferential			CN-ISIN3-2562-1.3							
				Elbow to Pipe	9					
				Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be used	ation. Procedure d.	PDI-UT-2 may be used in	lieu of NDE-600. If PDI-UT-2 is
C2.C5.11.0112	2NI85-5			-						
	Class 2	NI	CN-2NI-85	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component	C05.011.327, C05.011.327/
Circumferential			CN-ISIN3-2562-1.3						PDI-01-2-C	000.011.0217
									· ·	
			·	Elbow to Pipe) —					
				Procedure ND used, then th	e calibration	the compone block listed s	hall be used	ation. Procedure d.	PDI-UT-2 may be used in	I lieu of NDE-600. If PDI-01-2 Is
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Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component ID Class / System		ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	ned 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 Elbov	v		-			
				Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibration of the second s	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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 Elbov	v					
				Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibration	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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	e ·					
				Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra	ation. Procedure 5.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
C2.C5.11.0114	2NI85-7									· · · · ·
	Class 2	NI	CN-2NI-85	PDI-UT-2	UT	SS	160	0.719 / 6.000	Component	C05.011.329,
Circumferential			CN-ISIN3-2562-1.3						PDI-UT-2-C	005.011.5294
	,			Elbow to Pipe Procedure ND used , then th	e calibration	the compone block listed s	nt for calibra	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is

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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	2N185-8								
	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 Elboy	w					
			Procedure NI used , then th	DE-600 uses ne calibration	the compone block listed s	ent for calibra shall be used	ation. Procedure I.	PDI-UT-2 may be used in lie	u of NDE-600. If PDI-UT-2 is
C2.C5.11.0115	2N185-8	_							
	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 Elboy	N					
			Procedure NI used , then th	DE-600 uses ne calibration	the compone block listed s	ent for calibra shall be used	ation. Procedure I.	PDI-UT-2 may be used in lie	u of NDE-600. If PDI-UT-2 is
C2.C5.11.1126	2ND34-17							· ·	
Circumferential	Class 2 ND	CN-2ND-34 CN-ISIN3-2561-1.1	NDE-68	VT-2			0.322 / 14.000		C05.011
			Residual Hea	it Removal H	eat Exchange	ər 2B			
			Code Case N The Residual once each pe 000252)	I-706 has bee Heat Removeriod. For add	en incorporate /al Heat Exch ditional inform	ed for use du langer 2B is nation, refere	uring the Third In inside the Class ance PIP#G-08-0	terval which allows an alterna 2 Pressure Test Boundary a 0480 and File No. CN-1212.	ative exam (VT-2) for this weld. nd will receive a VT-2 exam 03 (Record Retention Code #
			If evidence of evaluation ca or configuratio	f leakage is d n be perform on if leakage	etected for th ed. Use of th has been de	nis item durin nis code case tected.	ig system leakag e shall be discon	e test, the NDE Plan Manag tinued for the heat exchange	er will be notified of leakage so erand others of the same design
			This exam wi Addendum C	ll be perform 2-PT-031. A	ed under the VT-2 visual e	Pressure tes exam will be	st Program. Refe performed for thi	erence Drawing Number CN- is weld.	ISIL3-2561-1.1 and Plan
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Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num Component ID ISO/DW Class / System		D ISO/DWG Numbers m	Procedure Description Comments	Insp Req	Material	Sched Thick/NPS		Cal Blocks	Componenet ID 2
Category C-F-1									· · · · · · · · · · · · · · · · · · ·
C2.C5.11.1654	2ND25-19								
Circumferential	Class 2 ND	CN-2ND-25 CN-ISIN3-2561-1.0	NDE-68	VT-2			0.438 / 14.000		C05.011
			Residual Hea	t Removal H	eat Exchange	er 2A			
·			Code Case N The Residual once each pe 000252)	-706 has bee Heat Remov riod. For add	en incorporate val Heat Exch ditional inform	ed for use di anger 2A is nation, refer	uring the Third Inte inside the Class 2 ence PIP#G-08-00	erval which allows an alterna 2 Pressure Test Boundary a 0480 and File No. CN-1212.0	ative exam (VT-2) for this weld. nd will receive a VT-2 exam 03 (Record Retention Code #
			If evidence of evaluation ca or configuration	leakage is d n be perform on if leakage	etected for th ed. Use of th has been de	is item duri iis code cas tected.	ng system leakage e shall be discont	e test, the NDE Plan Manage inued for the heat exchange	er will be notified of leakage so rand others of the same design
			This exam wi Addendum C	ll be perform 2-PT-031、A	ed under the VT-2 visual e	Pressure te exam will be	st Program. Refe performed for this	rence Drawing Number CN-I s weld.	SIL3-2561-1.0 and Plan
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 Hea	t Removal H	eat Exchange	er 2A			· · · · · · · · · · · · · · · · · · ·
			Code Case N The Residual once each pe 000252)	-706 has bee Heat Remov riod. For add	en incorporate val Heat Exch ditional inform	ed for use di anger 2A is nation, refer	uring the Third Into inside the Class 2 ence PIP#G-08-00	erval which allows an alterna 2 Pressure Test Boundary ar 0480 and File No. CN-1212.0	tive exam (VT-2) for this weld. nd will receive a VT-2 exam 03 (Record Retention Code #
			If evidence of evaluation ca or configuratio	leakage is d n be perform on if leakage	etected for th ed. Use of th has been det	is item durii iis code cas ected.	ng system leakage e shall be discont	e test, the NDE Plan Manage inued for the heat exchange	er will be notified of leakage so rand others of the same design
			This exam wil Addendum C	ll be performe 2-PT-031. A	ed under the VT-2 visual e	Pressure te exam will be	st Program. Refer performed for this	rence Drawing Number CN-I s weld.	SIL3-2561-1.0 and Plan

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Summary Num	Component ID Class / Systen) ISO/DWG Numbers n	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, C05.021.1114
Circumferential		CN-ISIN3-2562-1.2							000.021.111
			Pipe to 3X2 I	Reducer					
			Procedure NI used , then th	DE-600 uses le calibration	the compone block listed s	ent for calibration calibration in the second se	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
C2.C5.21.0015	2NI200-2		· ,						
	Class 2 NI	CN-2NI-200	PDI-UT-2	UT	SS	80	0.218 / 2.000	Component	C05.021.111,
Circumferential		CN-ISIN3-2562-1.2					• ·	PDI-UT-2-C	C05.021.1114
Chroambrondar									
•			Pipe to 3X2 F	Reducer					
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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 Orific	ce				
			Procedure NI used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibr	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
C2.C5.21.0016	2NI200-3		· . e						
	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 Orific	ce				
			Procedure NE used , then the	DE-600 uses le calibration	the compone block listed s	nt for calibr	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is

Summary Num	Compon Class / S	nent ID Systen	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,
Circumferential			CN-ISIN3-2562-1.2							000.021.110
				Pipe to Elbov	v					
				Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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							•			
				Pine to Elbow	d					
				Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
C2.C5.21.0018	2NI23-5									
	Class 2	NI	CN-2NI-23	NDE-35	PT	SS	80	0.337 / 4.000		C05.021.114,
Circumferential			CN-ISIN3-2562-1.2						``	
				Elbow to Pipe	•					
				Procedure ND used, then th	E-600 uses e calibration	the compone block listed s	nt for calibration hall be used	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
C2.C5.21.0018	2NI23-5		· · ·							:
	Class 2	NI	CN-2NI-23	PDI-UT-2	UT	SS	80	0.337 / 4.000	Component	C05.021.114, C05.021.1144
Circumferential			CN-ISIN3-2562-1.2						PDI-01-2-C	000.021.114
				Elbow to Pipe	e j					
	ι.			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	a of NDE-600. If PDI-UT-2 is

Summary Num	Component II Class / Systen	D 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	0.3374-4.000		C05.021.115, C05.021.115A
Circumferential		CN-ISIN3-2562-1.2							
			Pipe to Elboy	v					
			Procedure NE used , then the	DE-600 uses e calibration	the compone block listed s	nt for calibration in the second s	ation. Procedure d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
C2.C5.21.0019	2NI24-1	·							·
	Class 2 NI	CN-2NI-24	PDI-UT-2	UT	SS	80	0.337 / 4.000	Component	C05.021.115,
Circumferential		CN-ISIN3-2562-1.2					. '	PDI-UT-2-C	C05.021.115#
			Pipe to Elbov	v					
			Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibration in the second s	ation. Procedure d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-ÙT-2 is
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 Elbov	v					
			Procedure NE used , then th	E-600 uses t e calibration	the compone block listed s	nt for calibration in the second s	ation. Procedure d.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
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 Elbov	v					
			Procedure NI used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is

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Summary Num	Component I Class / Syste	D ISO/DWG Numbers m	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	8					
			Procedure NC used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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	Э.,					
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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 Elbov	v					
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibr hall be use	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is
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 Elbov	v					
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure d.	PDI-UT-2 may be used in lieu	of NDE-600. If PDI-UT-2 is

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Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	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 F	Reducer					
			Procedure NE used , then the	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure 1.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
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
Circumferential		CIN-131N3-2502-1.2	·					FDI-01-2-C	
			Pipe to 3X2 F	Reducer				· .	
	-		Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra	ation. Procedure	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
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 Orific	e				· · · ·
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra	ation. Procedure 1.	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
C2.C5.21.0024	2NI255-5	• •	· · · · ·		•		,	···	
	Class 2 NI	CN-2NI-255 CN-ISIN3-2562-1.2	PDI-UT-2	UT	SS	160	0.438 / 3.000	Component PDI-UT-2-C	C05.021.120, C05.021.120A
Circumferential					• .		•		
			3X2 Reducer	to Flow Orific	e				
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure	PDI-UT-2 may be used in lie	eu of NDE-600. If PDI-UT-2 is
			·						

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	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, C05.021.2264
Circumferential Terminal End		CN-ISIN3-2554-1.6							000.021.2207
	,		Nozzle to Pip	e					
			Seal Water H of NDE-600. I	eat Exchang If PDI-UT-2 is	er. Procedure s used , then	NDE-600 the calibrati	uses the compone ion block listed sh	ent for calibration. Proced all be used.	lure PDI-UT-2 may be used in lieu
C2.C5.21.0060	2NV181-1			· _ · _ · _ · _ · _ · _ · _ · _ ·		<u></u>			
	Class 2 NV	CN-2NV-181	PDI-UT-2	UT	SS	40	0.237 / 4.000	Component	C05.021.226, C05.021.226A
Circumferential Terminal End		614-151145-2004-1.0						10-01-2-0	· · · ·
			Nozzle to Pip	e					
			Seal Water H of NDE-600. I	eat Exchang f PDI-UT-2 is	er. Procedure s used , then	NDE-600 t the calibrati	uses the compone ion block listed sh	ent for calibration. Proced all be used.	lure PDI-UT-2 may be used in lieu
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 Elboy	N					
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	ent for calibr shall be use	ation. Procedure d.	PDI-UT-2 may be used ir	lieu of NDE-600. If PDI-UT-2 is
C2.C5.21.0061	2NV181-14	 					· · ·		· · ·
	Class 2 NV	CN-2NV-181 CN-ISIN3-2554-1.6	PDI-UT-2	UT	SS	40	0.237 / 4.000	Component PDI-UT-2-C	C05.021.227, C05.021.227A
Circumferential									
			Pipe to Elboy	v					
			Procedure NE used , then th	DE-600 uses le calibration	the compone block listed s	nt for calibration in the second s	ation. Procedure d.	PDI-UT-2 may be used ir	n lieu of NDE-600. If PDI-UT-2 is
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Catawba 2, 3rd Interval, outage 3 (EOC-16)

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Summary Num	Component II Class / Systen	D ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	c	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, C05.021.228/
Circumferential Terminal End		CN-ISIN3-2554-1.6								
			Nozzle to Pip	e						
			Seal Water H of NDE-600. I	eat Exchang f PDI-UT-2 is	er. Procedure s used , then t	NDE-600 ι the calibrati	uses the compon on block listed st	ent for calibration. all be used.	Procedure PDI-UT-2 may be	e used in lieu
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 Pip	е						
	·	· .	Seal Water H of NDE-600. I	eat Exchange f PDI-UT-2 is	er. Procedure s used , then t	NDE-600 ι the calibrati	uses the compon on block listed st	ent for calibration. all be used.	Procedure PDI-UT-2 may be	e used in lieu
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	e						
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure J.	PDI-UT-2 may be	used in lieu of NDE-600. If F	PDI-UT-2 is
C2.C5.21:0063	2NV182-3	*. ·						· . · ·	· ·	- 7
	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	9						
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure	PDI-UT-2 may be	used in lieu of NDE-600. If F	PDI-UT-2 is

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Summary Num	Component IE Class / Systen) ISO/DWG Numbers n	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							000.021.2477
			Elbow to Noz	zle				-	
			Volume Contr 600. If PDI-U	rol Tank. Pro T-2 is used ,	cedure NDE-	600 uses th pration block	e component for k listed shall be us	calibration. Procedure PD sed.	I-UT-2 may be used in lieu of NDE-
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 Noz	zle					
			Volume Contr 600. If PDI-U	rol Tank. Pro T-2 is used ,	cedure NDE-(then the calib	600 uses th pration block	e component for listed shall be us	calibration. Procedure PD sed.	I-UT-2 may be used in lieu of NDE-
C2.C5.30.0002	2CA53-11								
Circumferential	Class 2 CA	CN-2CA-53 CN-ISIN3-2592-1.1	NDE-35	PT	SS-CS	80	0.218 / 2.000		C05.030.002
			Valve 2CA19	to Pine			2		· · ·
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,
Circumferential		CN-ISIN3-2592-1.1							
			Elbow to Pipe	9					
			Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure d.	PDI-UT-1 may be used in	lieu of NDE-600. If PDI-UT-1 is
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Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category C-F-2									
C2.C5.51.0012	2CA97-10							All	
	Class 2 CA	CN-2CA-97	NDE-600	UT	CS	80	0.432 / 6.000	Component	C05.051.012,
Circumferential		CN-ISIN3-2592-1.1						PDI-UT-1-C	C05.051.012A
			Elbow to Pipe	9					
17 ¹			Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure d.	PDI-UT-1 may be used in lie	eu of NDE-600. If PDI-UT-1 is
C2.C5.51.0013	2CA97-9								
	Class 2 CA	CN-2CA-97	NDE-25	MT	CS	80	0.432 / 6.000	×	C05.051.013,
Circumferential		CN-ISIN3-2592-1.1							665.651.615
			Pipe to Elbov	v					
			Procedure NE used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure d.	PDI-UT-1 may be used in lie	eu of NDE-600. If PDI-UT-1 is
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 Elbov	v					
			Procedure NE used , then th	DE-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure d.	PDI-UT-1 may be used in lie	eu of NDE-600. If PDI-UT-1 is
C2.C5.51.0018	2CF65-24				•	÷		,	
	Class 2 CF	CN-2CF-65	NDE-25	мт	CS	80	0.844 / 16.000		C05.051.055, C05.051.0554
Circumferential		CN-ISIN3-2591-1.1							
			Elbow to Valv	e 2CF044		· ·			
			Procedure ND used , then th	E-600 uses e calibration	the compone block listed s	nt for calibra hall be used	ation. Procedure I J.	PDI-UT-1 may be used in lie	u of NDE-600. If PDI-UT-1 is
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Summary Num	Component II Class / Systen	D 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											
	-										
		1	Elbow to Valv								
		· · · ·	used, then th	e calibration	the compone block listed s	hall be use	ation. Procedure I d.	PDI-UT-1 may be used in lieu	i of NDE-600. If PDI-UT-1 is		
C2.C5.51.0019	2CF65-27										
	Class 2 CF	CN-2CF-65	NDE-25	ΜТ	CS .	80	0.844 / 16.000		C05.051.056,		
									C05.051.056A		
Circumferential		CN-ISIN3-2591-1.1									
Terminal End	•										
- .			Elbow to Noz	zle							
			Steam Genera 600. If PDI-UT	ator 2B. Proc [-1 is used ,	edure NDE-6	00 uses the ration block	e component for c listed shall be us	alibration. Procedure PDI-UT	-1 may be used in lieu of NDE-		
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 Noz	zle							
			Steam Genera 600. If PDI-UT	ator 2B. Proc I-1 is used,	edure NDE-6 then the calib	00 uses the ration block	e component for c listed shall be us	alibration. Procedure PDI-UT ed.	-1 may be used in lieu of NDE-		
Category C-G			•						. 1		
C2.C6.20.0001	2CF-60							· · · · · · · · · · · · · · · · · · ·			
	Class 2 CF	CN-ISIN3-2591-1.1	NDE-25	МТ	CS		1.782 / 18.000		C06.020.001		
Circumferéntial		CNM 1205.12-0051									
			Valve Bodv to	Bonnet					-		
			Valve Body Weld - Valve Numbers in Valve Group 2CF-33, 2CF-42, 2CF-51, 2CF-60.								
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Summary Num	Component I Class / Syste	D ISO/DWG Numbers m	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category D-A									
C2.D1.10.0021	2DGEJWSTP	A-SUPPORT							
Rigid Support	Class 3 KD	CNM 1301.00-105 CN-ISIN3-2609-1.0 CNM 1301.00-106	NDE-65	VT-1	NA		1.000 / 0.000		D01.010.014
			Diesel Genera Item S, 4 Stiff Interval.	ator Engine J feners Item R	acket Water I, 3 Saddles I	Standpipe 2 tem B) Refe	A Support Welder erence PIP# C-08-	d Attachments. Reference 02442. Reference PIP Se	CNM 1301.00-0106 (1 Baseplate rial No. C-06-05445 - Missed 2nd
C2.D1.20.0009	2-R-TE-0022								
Rigid Support	Class 3 TE	CN-2492-TE001 CN-ISIN3-2593-1.2	NDE-65	VT-1	NA		0.750 / 12.000		D01.020.041
			Inspect with F	01.030.201.					
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 F	01.032.224.					
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 F	01.032.225.					
Category ELC									
C2.H3.1.0004	2ND22-1	· · · · · · · · · · · · · · · · · · ·	· · · · ·		2	· ,			
	Class 2 ND	CN-2ND-022	NDE-998	UT	SS		0.250 / 8.000	Component	
			Tee to Elbow	,					
			Thermal Fatig 08-01) Examination F	jue Managem Frequency: E	nent Program Beginning in E	(Reference OC16 (Out	QA-513J Form da	ated 4/17/2008 - Engineeri 6 years EOC20 (outage 7	ng Tracking Number ER-CNS-).

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Co	mponenet ID 2
Category ELC										
C2.H3.1.0005	2ND22-2									
	Class 2 ND	CN-2ND-022	NDE-998	UT	SS		0.250 / 8.000	Component	,	
			Pipe to Tee							
			Thermal Fatig 08-01)	gue Managen	nent Program	(Reference	QA-513J Form	dated 4/17/2008 - Engir	eering Tracking Number	ER-CNS-
			Examination	Frequency: E	Beginning in E	OC16 (Out	age 3) and even	y 6 years EOC20 (outaç	je 7).	
C2.H3.1.0006	2ND34-1									
	Class 2 ND	CN-2ND-034	NDE-998	UT	SS		0.250 / 8.000	Component		
			Pipe to Tee		•					
			Thermal Fatig	gue Managen	nent Program	(Reference	QA-513J Form	dated 4/17/2008 - Engir	eering Tracking Number	ER-CNS-
			Examination	Frequency: E	Beainnina in E	OC16 (Out	age 3) and even	/ 6 vears EOC20 (outad	ae 7).	
Category F-A			Examination	i i equality i					<u>,- , </u>	
C2.F1.10.0016	2-R-NI-1757									
	Class 1 NI	CN-2491-NI116	NDE-66	VT-3	NA		0.000 / 10.000			F01.010.057
Rigid Support		CN-ISIN3-2562-1.1								
C2.F1.10.0017	2-R-NI-1764									
	Class 1 NI	CN-2491-NI116	NDE-66	VT-3	NA		0.000 / 6.000			F01.010.058
Rigid Support	i.	CN-ISIN3-2562-1.1								
	0 D MI 4705									
G2.F1.10.0018	Z-R-INI-1705	CN-2491-NI116		VT-3	NΔ		0.000/6.000			F01.010.059
Rigid Support		CN-ISIN3-2562-1.1	NDL-00	V1-5			0.00070.000			101.010.000
C2.F1.10.0019	2-R-NI-1766									
	Class 1 NI	CN-2491-NI116	NDE-66	VT-3	NA		0.000 / 6.000			F01.010.060
Rigid Support		CN-ISIN3-2562-1.1								
C2.F1.20.0004	2-R-CA-1574									
	Class 2 CA	CN-2491-CA009	NDE-66	VT-3	NA		0.000 / 6.000			F01.020.004
Rigid Support		CN-ISIN3-2592-1.1								
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Catawba 2, 3rd Interval, outage 3 (EOC-16)

Category F-A Category F-A C2:F1 20:0005 2:R-CA-1877 Class 2 CA CN-2491-CA009 Rigid Support Ciss 2 CA C2:F1 20:0005 2:R-CA-1676 Class 2 CA CN-2491-CA009 C2:F1 20:0005 2:R-CA-1676 Class 2 CA CN-2491-CA009 C1:Si 2 CA CN-2491-CA005 C1:Si 2 CA CN-2492-ND010 C1:Si 2 CA CN-2492-ND010 C1:Si 2 ND CN-2492-ND010	Summary Num	Component II Class / Syster	D ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
C2_F1_20.0005 2-R-CA-1577 Class 2 CN-2491-CA009 CN-ISIN3-2592-1.1 NDE-66 VT-3 NA D.000 / 6.000 F01.02 C2_F1_20.0006 2-R-CA-1578 Class 2 CN-2491-CA009 CN-ISIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 6.000 F01.02 C2_F1_20.0009 2-R-CA-1578 Class 2 CA CN-2491-CA009 CN-ISIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 6.000 F01.02 C2_F1_20.0009 2-R-CA-1692 Class 2 CA CN-2491-CA005 CN-1SIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 4.000 F01.02 C2_F1_20.0022 2-R-ND-0036 Class 2 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2_F1_20.0023 2-R-ND-0037 Class 2 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2_F1_20.0024 2-R-ND-0037 Class 2 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2_F1_20.0024 2-R-ND-0040 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2_F1_20.0025 2-R-ND-0044 Class 2 NDE-66 VT-3 <td< th=""><th>Category F-A</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	Category F-A									
Class 2 CA CA+2491-CA009 CN-ISIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 6.000 F01.02 C2 F1.20.0006 2-R-CA-1576 Class 2 CA CA-2491-CA009 CN-ISIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 6.000 F01.02 Rigid Support Class 2 CA CA-2491-CA005 CN-ISIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 6.000 F01.02 C2 F1.20.0009 2-R-CA-1692 Class 2 CA CN-2491-CA005 CN-ISIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 4.000 F01.02 C2 F1.20.0022 2-R-ND-0036 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2 F1.20.0023 2-R-ND-0037 Class 2 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2 F1.20.0024 2-R-ND-0044 Class 2 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA </th <th>C2.F1.20.0005</th> <th>2-R-CA-1577</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	C2.F1.20.0005	2-R-CA-1577								
C2_F1_20_0006 2-R-CA-1578 Class 2 CA CN-2491-CA009 NDE-66 VT-3 NA 0.000 / 6.000 F01.02 C2_F1_20_0009 2-R-CA-1692 Class 2 CA CN-2491-CA005 NDE-66 VT-3 NA 0.000 / 4.000 F01.02 C2_F1_20_0009 2-R-CA-1692 Class 2 CA CN-2491-CA005 NDE-66 VT-3 NA 0.000 / 4.000 F01.02 C2_F1_20_0022 2-R-ND-0036 CN-15IN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2_F1_20_0023 2-R-ND-0037 Ch-3IN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2_F1_20_0024 2-R-ND-0037 Class 2 ND CN-15IN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2_F1_20_0024 2-R-ND-0040 CN-15IN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2_F1_20_0025 2-R-ND-0044 CN-15IN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024	Rigid Support	Class 2 CA	CN-2491-CA009 CN-ISIN3-2592-1.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.020.005
Cliss 2 CA CN-2491-CA009 NDE-66 VT-3 NA 0.000 / 6.000 F01.02 C2:F1.20.0009 2-R-CA-1692 CN-2491-CA005 NDE-66 VT-3 NA 0.000 / 4.000 F01.02 Rigid Support Class 2 CA CN-2491-CA005 NDE-66 VT-3 NA 0.000 / 4.000 F01.02 C2:F1.20.0022 2-R-ND-0036 CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2:F1.20.0023 2-R-ND-0037 Class 2 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2:F1.20.0024 2-R-ND-0037 CHass 2 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support Class 2 ND CN-2492-ND010 NDE-66 VT-3 N	C2 E1 20 0006	2-R-CA-1578		1. P						
Rigid Support CN-ISIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 4.000 F01.021 C2_F1_20_0022 2-R-VAD-0036 CN-ISIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 4.000 F01.021 C2_F1_20_0022 2-R-VAD-0036 CN-ISIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CIA-S2 N D CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2_F1_20_0023 2-R-ND-0037 CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2_F1_20_0024 2-R-ND-0047 CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2_F1_20_0024 2-R-ND-0044 CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2_F1_20_0025 2-R-ND-0044 CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021	02.1 1.20.0000	Class 2 CA	CN-2491-CA009	NDE-66	VT-3	NA		0.000 / 6.000		F01.020.00€
C2.F1.20.0009 2-R-CA-1692 Class 2 NDE-66 VT-3 NA 0.000 / 4.000 F01.02 Rigid Support Class 2 CA CN-2491-CA005 CN-ISIN3-2592-1.1 NDE-66 VT-3 NA 0.000 / 4.000 F01.02 C2.F1.20.0022 2-R-ND-0036 Class 2 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support Class 2 ND CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2.F1.20.0023 2-R-ND-0037 Class 2 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2.F1.20.0024 2-R-ND-0040 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2.F1.20.0025 2-R-ND-0044 Class 2 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2.	Rigid Support		CN-ISIN3-2592-1.1							
Class 2 CA CN-2491-CA005 NDE-66 VT-3 NA 0.000 / 4.000 F01.02 C2.F1.20.0022 2-R-ND-0036 CN-351N3-2592-1.1 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2.F1.20.0023 2-R-ND-0037 Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2.F1.20.0024 2-R-ND-0040 CN-15IN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 Rigid Support CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 C2.F1.20.0025 2-R-ND-0044 CN-15IN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02 G2.F1.20.0026 2-R-ND-0045 CN-15IN3-2561-1.0 NDE-66 VT-3	C2.F1.20.0009	2-R-CA-1692								
C2.F1.20.0022 2-R-ND-0036 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0023 2-R-ND-0037 Class 2 ND CN-2492-ND010 CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0024 2-R-ND-0040 CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0024 2-R-ND-0040 Class 2 ND CN-2492-ND010 CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0025 2-R-ND-0044 Class 2 ND CN-2492-ND010 CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0026 2-R-ND-0044 Class 2 ND CN-2492-ND010 CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0026 2-R-ND-0045 Class 2 ND CN-2492-ND010 CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0026 2-R-ND-0045 Class 2 ND CN-2492-ND010 CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024	Rigid Support	Class 2 CA	CN-2491-CA005 CN-ISIN3-2592-1.1	NDE-66	VT-3	NA		0.000 / 4.000		F01.020.00§
C2.F1.20.0022 2-R-ND-0036 Class 2 ND NN2-96 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0023 2-R-ND-0037 Class 2 ND CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0024 2-R-ND-0040 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0025 2-R-ND-0044 Class 2 ND CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020 C2.F1.20.0026 2-R-ND-0045 Class 2 ND CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020 Rigid Support CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020 Rigid Support CN-2492-ND010 CN-ISIN3-2561										
Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support 2-R-ND-0037 Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0024 2-R-ND-0040 CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0024 2-R-ND-0040 CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0025 2-R-ND-0044 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0026 2-R-ND-0045 CN-SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 </td <td>C2.F1.20.0022</td> <td>2-R-ND-0036</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	C2.F1.20.0022	2-R-ND-0036								
Rigid Support CN-ISIN3-2561-1.0 C2.F1.20.0023 2-R-ND-0037 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0024 2-R-ND-0040 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0025 2-R-ND-0044 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0026 2-R-ND-0045 Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 <t< td=""><td></td><td>Class 2 ND</td><td>CN-2492-ND010</td><td>NDE-66</td><td>VT-3</td><td>NA ·</td><td></td><td>0.000 / 8.000</td><td></td><td>F01.020.034</td></t<>		Class 2 ND	CN-2492-ND010	NDE-66	VT-3	NA ·		0.000 / 8.000		F01.020.034
C2.F1.20.0023 2-R-ND-0037 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 Rigid Support 2-R-ND-0040 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0024 2-R-ND-0040 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 Rigid Support 2-R-ND-0044 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0025 2-R-ND-0044 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 Rigid Support CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0026 2-R-ND-0044 Class 2 ND CN-2492-ND010 CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0026 2-R-ND-0045 Class 2 ND CN-2492-ND010 CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024	кідіа Support		CN-151N3-2561-1.0							
Class 2 ND CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0024 2-R-ND-0040 Class 2 ND CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0025 2-R-ND-0044 Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 C2.F1.20.0026 2-R-ND-0044 Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.021 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 Bigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020	C2.F1.20.0023	2-R-ND-0037								
Rigid Support CN-ISIN3-2561-1.0 C2.F1.20.0024 2-R-ND-0040 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0025 2-R-ND-0044 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0026 2-R-ND-0044 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0026 2-R-ND-0045 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024		Class 2 ND	CN-2492-ND010	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.035
C2.F1.20.0024 2-R-ND-0040 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 Rigid Support C1.ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0025 2-R-ND-0044 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 Rigid Support CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0026 2-R-ND-0045 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 Rigid Support CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.024 C2.F1.20.0026 2-R-ND-0045 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.024 Rigid Support CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.024	Rigid Support	•	CN-ISIN3-2561-1.0							
Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02i Rigid Support 2-R-ND-0044 Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02i Rigid Support 2-R-ND-0044 Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02i Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02i C2.F1.20.0026 2-R-ND-0045 CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02i C2.F1.20.0026 2-R-ND-0045 CIass 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.02i Rigid Support CN-S1N3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.02i	C2.F1.20.0024	2-R-ND-0040								
Rigid Support CN-ISIN3-2561-1.0 C2.F1.20.0025 2-R-ND-0044 Class 2 ND NDE-66 VT-3 NA 0.000 / 8.000 F01.020 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020 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 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 Bigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020		Class 2 ND	CN-2492-ND010	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.03€
C2.F1.20.0025 2-R-ND-0044 Class 2 ND CN-2492-ND010 CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020 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 Rigid Support CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020	Rigid Support		CN-ISIN3-2561-1.0							· · · ·
Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.020 Rigid Support CN-ISIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020 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 Rigid Support CN-1SIN3-2561-1.0 NDE-66 VT-3 NA 0.000 / 8.000 F01.020	C2.F1.20.0025	2-R-ND-0044			-					
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 Rigid Support CN-ISIN3-2561-1.0 CN-ISIN3-2561-1.0 F01.020 F01.020		Class 2 ND	CN-2492-ND010	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.037
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 Rigid Support CN-ISIN3-2561-1.0	Rigid Support		CN-ISIN3-2561-1.0							
Class 2 ND CN-2492-ND010 NDE-66 VT-3 NA 0.000 / 8.000 F01.020	C2.F1.20.0026	2-R-ND-0045								·
Rigid Support CN-ISIN3-2561-1.0		Class 2 ND	CN-2492-ND010	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.038
	Rigid Support		CN-ISIN3-2561-1.0							

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers m	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		F01.020.066
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		F01.020.068
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		F01.020.098
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		F01.020.14§
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		F01.020.150
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				-			
			-						· ·

Catawba 2, 3rd interval, outage 3 (EOC-16)

Summary Num	Component II Class / System	D ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
C2.F1.20.0081	2-R-NV-0248								
Rigid Support	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	2-R-NV-0249								
Rigid Support	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	2-R-CA-1571							· · · · · · · · · · · · · · · · · · ·	
Rigid Restraint	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	2-R-CA-1575								
Rigid Restraint	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	2-R-NI-1672								
Rigid Restraint	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	2-R-NS-1171								
	Class 2 NS	CN-2491-NS005	NDE-66	VT-3	NA		0.000 / 8.000		F01.021.096
Rigid Restraint		CN-ISIŇ3-2563-1.0	:				•	-	
C2.F1.21.0040	2-R-NS-1172								
	Class 2 NS	CN-2491-NS005	NDE-66	VT-3	NA		0.000 / 8.000		F01.021.097
Rigid Restraint		CN-ISIN3-2563-1.0							
C2.F1.21.0042	2-R-NS-1166								
	Class 2 NS	CN-2491-NS006	NDE-66	VT-3	NA		0.000 / 8.000	•	F01.021.099
Rigid Restraint		CN-ISIN3-2563-1.0	*					4	

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A			oomininini						
C2.F1.21.0043	2-R-NS-1167								
	Class 2 NS	CN-2491-NS006	NDE-66	VT-3	NA		0.000 / 8.000		F01.021.100
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		F01.021.166
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							

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks		Componenet ID 2
Category F-A										
C2.F1.22.0014	2-R-ND-0143									······
Spring Hgr	Class 2 ND	CN-2492-ND007 CN-ISIN3-2561-1.0	NDE-66	VT-3	NA		0.000 / 14.000			F01.022.033
C2 E1 22 0015	2-R-ND-0149									
02.1 1.22.0010	Class 2 ND	CN-2492-ND007	NDE-66	VT-3	NA		0.000 / 14.000			F01.022.034
Spring Hgr		CN-ISIN3-2561-1.0								
C2.F1.22.0038	2-R-SM-1554									
Spring Hgr	Class 2 SM	CN-2491-SM003 CN-ISIN3-2593-1.0	NDE-66	VT-3	NA		0.750 / 34.000			F01.022.207
C2 E1 30 0049	2-R-TE-0022			<u>.</u>						
02	Class 3 TE	CN-2492-TE001	NDE-66	VT-3	NA		0.750 / 12.000			F01.030.201
Rigid Support		CN-ISIN3-2593-1.2								
			Increat with (01 020 041					•	
	0.0.0000	-	inspect with t	201.020.041.						
C2.F1.31.0001	2-R-CA-0029	CN-2492-CA025	NDE-66	VT-3	NΔ		0.000 / 6.000			E01 031 001
Rigid Restraint		CN-ISIN3-2592-1.0		V1-5	NA NA		0.0007 0.000			101.001.007
C2.F1.31.0002	2-R-CA-0031									
÷ .	Class 3 CA	CN-2492-CA025	NDE-66	VT-3	[*] NA		0.000 / 6.000	• •	<u>≠</u> 95	F01.031.002
Rigid Restraint		CN-ISIN3-2592-1.0								
C2.F1.31.0003	2-R-CA-0032									
	Class 3 CA	CN-2492-CA025	NDE-66	VT-3	NA		0.000 / 6.000			F01.031.003
Rigid Restraint		CN-ISIN3-2592-1.0								
C2.F1.31.0007	2-R-CA-0024									
	Class 3 CA	CN-2492-CA025	NDE-66	VT-3	NA		0.000 / 6.000			F01.031.007
Rigid Restraint		CN-ISIN3-2592-1.0								
					•••					

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Catawba 2, 3rd Interval, outage 3 (EOC-16)

C2.F1.31.0031 Rigid Restraint	2-R-TE-0020 Class 3 TE 2-R-VN-0047 Class 3 VN	CN-2492-TE001 CN-ISIN3-2593-1.2 CN-2493-VN011 CN-ISIN3-2609-5.0	NDE-66 NDE-66	VT-3 VT-3	NA		0.000 / 12.000		· · ·	F01.031.201
C2.F1.31.0031 Rigid Restraint	2-R-TE-0020 Class 3 TE 2-R-VN-0047 Class 3 VN	CN-2492-TE001 CN-ISIN3-2593-1.2 CN-2493-VN011 CN-ISIN3-2609-5.0	NDE-66 NDE-66	VT-3 VT-3	NA		0.000 / 12.000			F01.031.201
Rigid Restraint	Class 3 TE 2-R-VN-0047 Class 3 VN	CN-2492-TE001 CN-ISIN3-2593-1.2 CN-2493-VN011 CN-ISIN3-2609-5.0	NDE-66 NDE-66	VT-3 VT-3	NA		0.000 / 12.000			F01.031.201
Rigid Restraint	2-R-VN-0047 Class 3 VN	CN-ISIN3-2593-1.2 CN-2493-VN011 CN-ISIN3-2609-5.0	NDE-66	VT-3	NA		0.750/00.000			
	2-R-VN-0047 Class 3 VN	CN-2493-VN011 CN-ISIN3-2609-5.0	NDE-66	VT-3	NA		0.750 / 00.000			
C2.F1.32.0018	Class 3 VN	CN-2493-VN011 CN-ISIN3-2609-5.0	NDE-66	VT-3	NA		0 750 / 00 000			
		CN-ISIN3-2609-5.0					0.750726.000			F01.032.221
Spring Hgr								. *		
C2.F1.32.0019	2-R-VN-0052									
	Class 3 VN	CN-2493-VN012	NDE-66	VT-3	NA		0.750 / 26.000			F01.032.222
Spring Hgr		CN-ISIN3-2609-5.0								
C2.F1.32.0021	2-R-VN-0006	. •							·	
	Class 3 VN	CN-2493-VN013	NDE-66	VT-3	NA		0.750 / 26.000			F01.032.224
Spring Hgr		CN-ISIN3-2609-5.0							·	
			Inspect with D	001.020.051.						
C2.F1.32.0022	2-R-VN-0011			t.						
	Class 3 VN	CN-2493-VN014	NDE-66	VT-3	NA		0.750 / 26.000		• •	. F01.032.228
Spring Hgr		CN-ISIN3-2609-5.0					·			
		-	Inspect with [001.020.052.					-	
C2.F1.32.0024	2-R-YC-0023									
	Class 3 YC	CN-2525-YC004	NDE-66	VT-3	NA		0.000 / 6.000		•	F01.032.252
Mech Snubber		CN-ISIN3-1578-2.2					•			
C2.F1.40.0029	2KCPA1-SUPP	PORT								
	Class 3 KC	CN-ISIN3-2573-1.0	NDE-66	VT-3	NA		0.000 / 0.000			F01.040.205
Rigid Support		CNM 1201.05-121								
			Component C	ooling Pump	2A1 Support.					
Distant 07/07/00 is - 500	00/10/00					A Cat "O"		Cata	wba 2 7/7/2000 8:25:20 AM	Page 62 of 64

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Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component II Class / Syster	D ISO/DWG Numbers n	Procedure Description Comments	insp Req	Material	Sched	Thick/NPS	Cal Blocks	Componenet ID 2
Category F-A									
C2.F1.40.0031	2MDCAPA-SU	PPORT							
Rigid 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
			Motor Driven	Auxillary Fee	dWater Pum	p 2A Suppo	rt.	· ·	
C2.F1.40.0103	2PZR-SUPPO	RT							
	Class 1 NC	CN-ISIN3-2553-1.0	NDE-66	VT-3	NA		0.000 / 0.000		· · · · · · · · · · · · · · · · · · ·
			Pressurizer L	ower Suppor	t 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 S 3 (EOC16) do of weld overla does count in	urge Nozzle: bes not count ay items that the code pe	Weld 2NC8 in code perc are required rcentages (2	3V is weld o entages. Th to be examin 5% for Appe	overlay that cover ne inspection in C ned during the 10 ndix Q).	s welds 2PZR-W1SE and a Dutage 6 (EOC19) is part o year interval. The weld in	2NC8-W3. Inspection in Outage If the 25% of the total population Ispection in Outage 6 (EOC19)
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 R Inspection-in the total popu Outage 6 (EC	elief Nozzle Outage 3 (E(Ilation of weld)C19) does c	(W-Z): Weld OC16) does r d overlay iten ount in the c	2NC117-7V not count in one of the termination of terminati	is weld overlay th code percentages equired to be examples ages (25% for Ap	nat covers welds 2PZR-W4 s. The inspection in Outag mined during the 10 year in pendix Q).	ICSE and 2NC117-W7. je 6 (EOC19) is part of the 25% of nterval. The weld inspection in
C2.Q1.1.0003	2NC44-28V	······································	· ·					· · ·	
	Class 1 NC	CN-2NC-0044	PDI-UT-8	UΤ	SS-CS		0.760/ 4.000	DE-6-CIRC-01 DE-6-AX-01	
Circumferential									
			Pressurizer S Outage 3 (EC	pray Nozzle:)C16) does n	Weld 2NC44 ot count in co	I-28V is weld ode percenta	d overlay that cov ages required (25	ers welds 2PZR-W2SE an % for Appendix Q) for the	Id 2NC44-W28. Inspection in 10 year interval.

Catawba 2, 3rd Interval, outage 3 (EOC-16)

Summary Num	Component ID Class / System	ISO/DWG Numb	bers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NP\$	S 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/ 6.00	0 DE-8-CIRC-01		
									DE-8-AX-01		
Circumierentia											
				Pressurizer S Inspection in	afety Nozzle Outage 3 (E	e (X-Y): Weld 2 OC16) does n	2NC119-1V	is weld overla code percenta	y that covers welds 2PZ des required (25% for A	R-W4ASE	and 2NC119-W3.
C2 O1 1 0005	2NC163-1V				0000300(1				300 / 0 1 / 0 / 0 / 0 / 0) ioi iiio io jour iiio iui
02.01.1.0000	Class 1 NC (CN-2NC-0163		PDI-UT-8	UT	SS-CS		0.960/ 6.00	0 DE-8-CIRC-01		
					•			0.000.000	DE-8-AX-01		
Circumferential											
				Pressurizer S Inspection in	afety Nozzle Outage 3 (E	e (X-W): Weld OC16) does n	2NC163-1V ot count in (/ is weld overla code percenta	y that covers welds 2P2 ges required (25% for A	R-W4BS pendix Q	E and 2NC163-W1.) 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/ 6.00	0 DE-8-CIRC-01		
Circumferential						÷					
				Pressurizer S in Outage 3 (I	afety Nozzle EOC16) doe	: (Y-Z): Weld 2 s not count in	2NC112-5V code perce	is weld overla ntages require	y that covers welds 2PZ d (25% for Appendix Q)	R-W3SE a for the 10	and 2NC112-W5. Inspection year interval.
						End of R	eport				
	STATIST	TICS ONLY	Class 1	65 Clas	s 2 183	Class 3 17	' Tota	al by Class 20	55 Systems	265	Total Count 265
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							,				
										s.	•
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4.0 <u>Results Of Inspections Performed</u>

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%.)	Ξ	Y Yes <u>N</u> No
Geo Ref (Geometric Reflector applies only to UT)	=	Y Yes <u>N</u> No
RFR (Relief Request required for limited inspection.)	=	<u>Y</u> Yes <u>N</u> No
Comments	=	General and/or Detail Description

EOC16 Refueling Outage Report Catawba Unit 2 Section 4 Page 1 of 2 Revision 0 July 7, 2009

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 C2.C1.10.0002 To be filed later To be filed later

EOC16 Refueling Outage Report Catawba Unit 2 Section 4 Page 2 of 2 Revision 0 July 7, 2009

Scheduleworks

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	<u>.</u> 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	Ň	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	Ν	N	Ν	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	Ν	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	Ν.	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	Ν	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	Ν	N	UT-09-134	
C2.B9,11.0050	2NC42-12	NC	03/29/09	CLR	N	Ν	N	PT-09-086	
		NC	03/29/09	CLR	Ν	Ν	N	UT-09-135	

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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	Ν	N	N	PT-09-091	
		ND	04/01/09	CLR	N	N	Ν	UT-09-141	
C2.B9.11.0075	2ND67-8	ND	04/01/09	CLR	N	N	N	PT-09-092	
		ND	04/01/09	ÇLR	N	N	Ν	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	Ν.	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	Ν	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	Ν	N	Ν	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	Ŷ	N	Y	UT-09-101	
								Limitation du	e to valve configuration
C2.B9.11.0111	2NI75-6	NI	03/15/09	CLR	Ν	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	

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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	Ν	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	Ν	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	Ν	UT-09-139
C2.C1.10.0002	2SGC-04B-05	NC	03/27/09	REC	Υ.	N	Y	UT-09-138
							. •	Limitation due to permenent restraint ring and tabs,
		NC	03/27/09	REC	Y	N	Y	UT-09-140
	<u> </u>							Limitation due to permenent restraint ring and tabs.
C2.C1.10.0003	2SGD-05-06A	NC	03/25/09	CLR	Ν	Ν	N	UT-09-125
		NC	03/25/09	CLR	N	N	Ν	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
		**************************************		وحسران سيجيه برجير الرجير ورويهم				

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Summary No	Component ID	System	lnsp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
C2.C1.20.0001	2SGD-06B-07	NC	03/25/09	CLR	Ν	N	Ν	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	Ν	UT-09-150
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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.

Component ID	System	Insp Date	Insp Status	insp Limited	Geo Ref	ŔĔŔ	Comment
2BRHRHX-5-B	ND	03/10/09	CLR	N	Ν	N	VT-09-200
							See Pressure Test Program for additional Results, Reference Code Case N-706.
2-R-NS-1219	NS	03/19/09	CLR	N	N	N	PT-09-069
2-A-NV-3684	NV	04/01/09	CLR	Ν	N	N	PT-09-090
2RHRPA-LUGS	ND	03/26/09	CLR	N	N	N	PT-09-083
2CA156-30	CA	03/21/09	CLR	N	N	N	PT-09-076
	CA	03/28/09	CLR	Ν	N	N	UT-09-129
2CA156-31	CA	03/21/09	CLR	N	N	N	PT-09-077
	CA	03/28/09	CLR	N	N .	N	UT-09-130
2CA156-32	CA	03/21/09	CLR	Ν	N	N .	PT-09-078
	СА	03/28/09	CLR	N .	N	N	UT-09-131
2ND10-8	ND	03/04/09	CLR	Ν	N	N	PT-09-051
	ND	03/04/09	CLR	Ν	Y	Ν	UT-09-081
							Geometric Reflector is root geometry 360 degrees
2ND10-9	• ND	03/04/09	CLR	N	N	N	PT-09-052
	ND	03/04/09	CLR	N	N	N	UT-09-082
	Component ID 2BRHRHX-5-B 2-R-NS-1219 2-A-NV-3684 2RHRPA-LUGS 2CA156-30 2CA156-31 2CA156-32 2ND10-8 2ND10-9	Component IDSystem2BRHRHX-5-BND2-R-NS-1219NS2-A-NV-3684NV2RHRPA-LUGSND2CA156-30CA2CA156-31CA2CA156-32CA2CA156-32CA2ND10-8NDNDND2ND10-9NDNDNDNDNDNDND2ND10-9NDNDNDNDND	Component ID System Insp Date 2BRHRHX-5-B ND 03/10/09 2-R-NS-1219 NS 03/19/09 2-A-NV-3684 NV 04/01/09 2RHRPA-LUGS ND 03/26/09 2CA156-30 CA 03/21/09 2CA156-31 CA 03/28/09 2CA156-32 CA 03/28/09 2CA156-32 CA 03/28/09 2ND10-8 ND 03/04/09 ND 03/04/09 ND 2ND10-9 ND 03/04/09 ND 03/04/09 ND 03/04/09 ND 03/04/09	Component ID System Date Status 2BRHRHX-5-B ND 03/10/09 CLR 2-R-NS-1219 NS 03/19/09 CLR 2-A-NV-3684 NV 04/01/09 CLR 2RHRPA-LUGS ND 03/26/09 CLR 2CA156-30 CA 03/21/09 CLR 2CA156-31 CA 03/21/09 CLR 2CA156-31 CA 03/21/09 CLR 2CA156-32 CA 03/21/09 CLR 2CA156-32 CA 03/21/09 CLR 2ND10-8 ND 03/04/09 CLR 2ND10-9 ND 03/04/09 CLR ND 03/04/09 CLR ND 03/04/09	Component ID System Insp Date Insp Status Insp Limited 2BRHRHX-5-B ND 03/10/09 CLR N 2-R-NS-1219 NS 03/19/09 CLR N 2-A-NV-3684 NV 04/01/09 CLR N 2RHRPA-LUGS ND 03/26/09 CLR N 2CA156-30 CA 03/21/09 CLR N 2CA156-31 CA 03/28/09 CLR N 2CA156-31 CA 03/21/09 CLR N 2CA156-31 CA 03/21/09 CLR N 2CA156-32 CA 03/21/09 CLR N 2ND10-8 ND 03/04/09 CLR N ND 03/04/09 CLR N N 2ND10-9 ND 03/04/09 CLR N ND 03/04/09 CLR N N	Insp Component ID System Date Status Limited Ref 2BRHRHX-5-B ND 03/10/09 CLR N N 2-R-NS-1219 NS 03/19/09 CLR N N 2-R-NV-3684 NV 04/01/09 CLR N N 2-R-NV-3684 NV 04/01/09 CLR N N 2CA156-30 CA 03/26/09 CLR N N 2CA156-30 CA 03/21/09 CLR N N 2CA156-31 CA 03/21/09 CLR N N 2CA156-31 CA 03/21/09 CLR N N 2CA156-32 CA 03/21/09 CLR N N 2ND10-8 ND 03/04/09 CLR N N 2ND10-9 ND 03/04/09 CLR N N 2ND10-9 ND 03/04/09 CLR N N	Component ID System Insp Date Insp Status Insp Limited Geo Ref RFR 2BRHRHX-5-B ND 03/10/09 CLR N N N 2-R-NS-1219 NS 03/19/09 CLR N N N 2-A-NV-3684 NV 04/01/09 CLR N N N 2RHRPA-LUGS ND 03/26/09 CLR N N N 2CA156-30 CA 03/21/09 CLR N N N 2CA156-31 CA 03/28/09 CLR N N N 2CA156-32 CA 03/21/09 CLR N N N 2CA156-32 CA 03/21/09 CLR N N N 2ND10-8 ND 03/04/09 CLR N N N 2ND10-9 ND 03/04/09 CLR N N N

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Summary No	Component ID	System	insp Date	ínsp Status	ínsp 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	Ν	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	Ň	Ν	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	Ň	UT-09-072	
C2.C5.11.0041	2ND16-6	ND	02/27/09	CLR	N	N .	Ň	PT-09-041	· · ·
		ND	02/27/09	CLR	N	N	N	UT-09-093	. у Э
C2.C5.11.0042	2ND16-7	ND	02/27/09	CLR	N	N	N	PT-09-042	
		ND	02/27/09	CLR	Ν	Ν	Ν	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	Ν	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	Ν	Ν	Ν	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	Ν	N	Ν	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	Ν	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
		. N I	03/20/09	CLR	Ν	Ν	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	Ν	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	Ň	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	2N185-6	NI	03/20/09	CLR	N	N	Ν	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	Ň	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	Ν	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	Ν	Ν	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	Ν	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	Ν	Ν	UT-09-083

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C2.C5.21.0018	2NI23-5	NI	03/04/09	CLR	N	Ν	N	PT-09-054	· · · · · · · · · · · · · · · · · · ·
•		· NI	03/04/09	CLR	N	Ν	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	Ν	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	Ν	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	

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C2.C5.21.0061	2NV181-14	NV	02/26/09	CLR	N	Ν	Ν	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	Ν	Ν	N	UT-09-078	
C2.C5.21.0081	2NV92-11	NV	03/26/09	CLR	Ν	N	N	PT-09-082	
	· ·	NV	03/25/09	CLR	Ν	N	Ν	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	Ν	N	N	UT-09-144	·
C2.C5.51.0013	2CA97-9	CA	04/01/09	CLR	N	N	N	MT-09-034	· ·
		СА	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	Ν	Y	N	UT-09-121	
								Indication is g	eometric reflector from counterbore in pipe
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C2.C5.51.0019	2CF65-27	ĈF	03/24/09	CLR	N	N	N	MT-09-032
		CF	03/24/09	CLR	N	Ņ	N	UT-09-122
C2.C6.20.0001	2CF-60	CF	03/21/09	CLR	N	N	N	MT-09-030
Ċ2.D1.10.0021	2DGEJWSTPA-SUPPORT	г кр	06/01/08	CLR	Ň	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	СА	03/12/09	CLR	N	N	N	VT-09-172
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C2.F1.20.0006	2-R-CA-1578	CA	03/12/09	CLR	Ν	Ν	Ν	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	Ν	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 four Shutt on 03/1	nd acceptable based on Evaluation Report No. EV-09-012 by Mark 1/09.

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المرافقا فكرد والمرافق مرافقا والمغالية

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	
	مر المراجع الم المراجع المراجع			- 79079441-2015446-2013-00-2-00-20	وروب المحافظ المراجع والمحافظ المراجع المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ المحافظ ا			الله ما و المحافظ المحا المحافظ المحافظ	

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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	Ν	Ν	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	ΤE	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	
	· ·								

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Summary No	Component ID	System	lnsp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment	
C2.F1.32.0021	2-R-VN-0006	VN	03/24/09	CLR	N	N	Ν	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	CLŖ	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	Ν	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	Ν	N	Ν	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	Ν	N	N	UT-09-115	
C2.G2.1.0004	2SM-5B-A	SM	03/22/09	CLR	N	N	N	MT-09-028	
v		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	

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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	Ν	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	Ņ	Ν	Ν	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	Ν	N	N	UT-09-119	
C2.G2.1.0008	2SM38-15	SM	03/22/09	CLR	Ν	N _.	N	MT-09-026	
		SM	03/23/09	CLR	Ν	Y	Ν	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	Ν	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	Ν	N	UT-09-098	
C2.G2.1.0011	2SM42-01	SM	03/19/09	CLR	. N	N	N	MT-09-021	
Ô		SM	03/19/09	CLR	Ν	N	Ν	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	Ν	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	Ν	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	Ň	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	2ŅD34-1	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	Ň	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	Ν	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	

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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.

EOC16 Refueling Outage Report Catawba Unit 2 Section 5 Page 1 of 1 Revision 0 July 7, 2009 2EOC16

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	Code				Repair,	Flaw Indication	Owner	
Work Order	Class	Sys	MOD No.	Description of Work	Replacement	Maint/ ISI (*Yes No)	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	6/1/1/2009	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	В	NV	NA	Bonnet Bolt for 2NV-472	Replacement	No	2/20/2008	2/26/2008
1709841-01	В	NV	NA	Bonnet Bolt for 2NV-471	Replacement	<u>No</u>	2/20/2008	2/26/2008
1709855-01	В	NV	NA	Bonnet Bolt for 2NV-170	Replacement	<u>No</u>	2/20/2008	2/26/2008
1820457-01	В	CF	NA	2CF-167 Valve Disc	Replacement	No	4/6/2009	5/20/2009
1820456-01	В	CF	NA	2CF-168 Valve Disc	Replacement	<u>No</u>	4/6/2009	5/20/2009
1820877-01	В	CF	NA	2CF-169 Valve Disc	Replacement	<u>No</u>	4/6/2009	5/20/2009
1820876-01	В	CF	NA	2CF-166 Valve Disc	Replacement	No	4/6/2009	5/13/2009
1861008-03	В	NV	NA	2NV-79 Body to Bonnet Seal Weld	Repair	No	4/13/2009	5/20/2009
1861490-01	В	NI	NA	Mechanical Joint Bolting	Replacement	<u>No</u>	4/13/2009	5/20/2009
1126797-02	В	NV	NA	2NV190 Valve Cover Bolt	Replacement	No	4/13/2009	5/20/2009
1829884-02	В	ND	NA	2ND-58B Valve Disc	Replacement	No	4/13/2009	5/20/2009
1862049-01	В	ND	NA	2NDFE5040 Bolting	Replacement	No	4/21/2009	5/19/2009
1785307-04	В	NV	NA	Valve 2NV-186A Disc	Replacement	<u>No</u>	4/21/2009	5/19/2009
1773946-02	В	CA `	NA	Valve 2CA-189	Replacement	No	4/21/2009	4/22/2009
1731351-11	В	NI	ŇA	Valve 2NI185A	Replacement	No	4/23/2009	5/14/2009
1822508-03	В	NV	NA	Valve 2NV222	Replacement	<u>No</u>	4/29/2009	4/30/2009
1865452-05	В	NI	NA	Valve 2NI118A Bonnet	Replacement	<u>No</u>	4/29/2009	5/14/2009
1858617-03	В	ND	NA	Valve 2ND59B Yoke	Replacement	No	4/29/2009	4/30/2009
1822507-02	В	NV	NA	Valve 2NV205	Replacement	<u>No</u>	4/29/2009	4/30/2009
1823041-01	В	NV	NA	Bolting for 2NV Pump 2A	Replacement	<u>No</u>	5/11/2009	5/18/2009
1777493-02	В	NV	NA	Bolting for 2NV-200	Replacement	No	5/11/2009	5/18/2009

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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-ND148	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
Section E Exhibit A

FORM NIS-2	OWNER'S	REPORT FOR	PEPAIRS OR	DEDI ACEMENTS
FUNIT 1115-2	Owner 9	ALLONI LOW	A REFAIRS OR	KELACEMENIS

As Required By The Provisions Of The ASME Code Section XI

				•	·			
1.0	Owner DUKE ENERG	<u> <u>SY</u></u>			1a Date 5/11/09	S	Sheet 1 of 1	
A	Address <u>526 S. CHUR</u>	CH STREET. C	<u>CHARLOTTE N</u>	. <u>C. 28201-</u>	1006			
2. Plant CATAWBA NUCLEAR STATION					2a Unit 🔲 1 🛛 📿 🗌	3 🗌 Sh	ared (specify U	nits)
	Address 4800 CONCO	RD RD. YORK	, S.C. 29745					
3.	Work Performed By	Duke Energy			3a Work Order # 1722492-50			
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>				
	Type Code Symbol	Stamp <u>N/A_</u> Autl	norization No. <u>N</u>	<u>I/A</u>	3b NSM or MN # CD200710			
	Expiration Date N/2	A						
4]	Identification of Sys	stem NC REAC	TOR COOLAN	T SYSTEM	1 Class A			
5. ((a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	ida, Code Cases			
((b) Applicable Edition	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Cor	mponents Repair	red or Replacem	ent Compo	nents		`	
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
	· · ·			4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
			Number				Installed	(yes or no)
Α	Bolting	NA	NA	NA	For valve 2NC-27	NA	Installed	No
							,	
В							-	-
C						1	-	-
			;					
D							-	-
E							-	<u>~</u>
							·	
F							-	-

ASME Section XI Manual	Form NIS-2 (Back)	Section E. Exibit A
NOTE: Supplemental sheets in form of lis nformation in items 1 through 6 on this re recorded at the top of this form.	sts, sketches, or drawings may be used, p ports included on each sheet, and (3) each	provided (1) size is 81/2in. x 11 in. (2) ch sheet is numbered and the number of sheets is
7. Description of Work Replace 2NC27 B	Sonnet Bolts	
3. Test Conducted: Hydrostatic Pne Pressure psig	umatic Nominal Operating Pressure Test Temp. deg.F.	Other Exempt
9. Remarks _ Code CasesNONE		·
	(Amiliashia Manufashiran Data Data	and to be ottached)
· .	(Applicable Manufacturers Data Reco	brds to be attached)
We certify that the statements ma rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIAN de in the report are correct and this repa	CE ir or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	Ē	Expiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Signed	<u>TECH SPEC II</u> Date <u>5/11</u> Title	,20 <u>09</u>
	·	· · · · · · · · · · · · · · · · · · ·
. Cl	ERTIFICATE OF INSERVICE INSP	ECTION
, the undersigned holding a valid commis	ssion issued by the National Board of Bo	biler and Pressure Vessel Inspectors and the
,		of Connecticut have inspected the components
State or Province of <u><u><u></u></u> <u></u> and described in this Owners Report during the belief, the Owner has performed examinate the requirements of the ASME Code, Sect</u>	employed by <u>HSB I AND I Company</u> ne period $5 - 18$ to $5 - 19$ ions and taken corrective measures desc ion XI.	and state that to the best of my knowledge and ribed in this Owner's Report in accordance with
State or Province of <u><u>A</u><u>C</u> and described in this Owners Report during the belief, the Owner has performed examinat the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure desc be liable in any manner for any personal in inspection.</u>	employed by <u>HSB I AND I Company</u> the period $5 - 18$ to $5 - 18$ ions and taken corrective measures desc ion XI. ector nor his employer makes any warran ribed in this Owners Report. Furthermon injury or property damage or a loss of an	and state that to the best of my knowledge and ribed in this Owner's Report in accordance with nty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall y kind arising from or connected with this
State or Province of $\underline{M} \underbrace{S} \underbrace{S} \underbrace{C}$ and described in this Owners Report during the belief, the Owner has performed examinate the requirements of the ASME Code, Sect By signing this certificate neither the Inspe- examinations and corrective measure desc be liable in any manner for any personal in inspection.	employed by <u>HSB I AND I Company</u> the period ≤ -18 to ≤ -18 ions and taken corrective measures described in XI. ector nor his employer makes any warrant ribed in this Owners Report. Furthermon njury or property damage or a loss of any Commissions $\leq < 23$	and state that to the best of my knowledge and ribed in this Owner's Report in accordance with nty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall y kind arising from or connected with this
State or Province of <u>MLC</u> of <u>and</u> described in this Owners Report during the belief, the Owner has performed examinate the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure desc be liable in any manner for any personal in inspection. <u>Xecouth</u> <u>Mathe</u> Inspector's Signature	employed by <u>HSB I AND I Company</u> the period ≤ -18 to ≤ -18 ions and taken corrective measures desc ion XI. ector nor his employer makes any warran ribed in this Owners Report. Furthermon njury or property damage or a loss of any Commissions $\leq < 23$	and state that to the best of my knowledge and ribed in this Owner's Report in accordance with nty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall y kind arising from or connected with this

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

As Required By The Provisions Of The ASME Code Section XI

				•				
1.0	Owner DUKE ENERC	<u>}Y</u>		1a Date 5/11/09	5	Sheet 1 of 1		
A	Address 526 S. CHUR	CH STREET. C	HARLOTTE N	1006				
2. F	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🗌 1 🛛 🔀 2	3 Sh	ared (specify U	nits)
	Address 4800 CONCO	RD RD. YORK	, S.C. 29745					•
3.	Work Performed By	Duke Energy			3a Work Order # 1722494-3	33		
	Address 526 S. Chu	rch St. Charlotte	, N.C. 28201-10	<u>)06</u>				
	Type Code Symbol S	Stamp <u>N/A_</u> Autl	norization No. <u>N</u>	<u>I/A</u>	3b NSM or MN # CD20071	0		
	Expiration Date N/A	4						
4]	Identification of Sys	tem NC REAC	TOR COOLAN	T SYSTEM	f Class A			
5. ((a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	ida, Code Cases			
((b) Applicable Editio	n of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents	· · · · · · · · · · · · · · · · · · ·		
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	-		Number				Installed	(yes or no)
Α	Bolting	NA	NA	NA	For valve 2NC-29	NA	Installed	No
					•			
B							-	-

Revision 6

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Section E Exhibit A

ASME Section XI Manual Form NIS-2 (Back) Section E Exibit A	
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is $81/2$ in. x information in items 1 through 6 on this reports included on each sheet, and (3) each sheet is numbered and the recorded at the top of this form.	11 in. (2) e number of sheets is
7. Description of Work Replace 2NC29 Bonnet Bolts	
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Exempt Pressure psig Test Temp. deg.F.	t 🖾
9. Remarks _ Code CasesNONE	
(Applicable Manufacturers Data Records to be attached)	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this <u>repair or replacement</u> conforms rules of the ASME Code, Section XI.	to the rules of the
Type Code Symbol Stamp N/A Expiration Date N/A	
Certificate of Authorization No. <u>N/A</u>	
Signed	
CERTIFICATE OF INSERVICE INSPECTION	· · · ·
I the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Ins	spectors and the
	spootoro una uro
State or Province of $\underline{\mathcal{FC}}$ and employed by <u>HSB I AND I Company of Connecticut</u> have inspected described in this Owners Report during the period $\underline{\mathcal{FPOS}}$ to $\underline{\mathcal{FVPOS}}$ to $\underline{\mathcal{FVPOS}}$ and state that to the best of belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report during the period $\underline{\mathcal{FVPOS}}$ to $\underline{\mathcal{FVPOS}}$ and state that to the best of belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report	ected the components of my knowledge and t 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, co examinations and corrective measure described in this Owners Report. Furthermore, neither the Inspector nor	oncerning the r his employer shall
be liable in any manner for any personal injury or property damage or a loss of any kind arising from or conne inspection.	ected with this
2 2 7 7 1	
Inspector's Signature	
Date 5-18_,20.09	
	Revision 6

Section E Exhibit A

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	SI	neet 1 of 1	
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006					<u>1006</u>			
2.1	Plant CATAWBA NU	ICLEAR STAT	ION		2a Unit 🗌 1 🔀 🗌	3 🗌 Sh	ared (specify U	Jnits)
	Address 4800 CONCO	RD RD. YORK	., S.C. 29745	• •				
3.	Work Performed By	Duke Energy		• • •	3a Work Order # 1778824-01			
	Address 526 S. Chu	rch St. Charlotte	<u>, N.C. 28201-10</u>	<u>)06</u>				
· ·	Type Code Symbol S	Stamp <u>N/A_</u> Autl	norization No. <u>N</u>	[<u>/A</u>	3b NSM or MN # NA			
	Expiration Date <u>N/A</u>	<u>J</u>		· •2		4.		
4	Identification of Sys	tem NC REAC	TOR COOLAN	T SYSTEN	1 Class A		·	
5.	(a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	ida, Code Cases		* *	. • f
. ((b) Applicable Edition	n of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			· · ·
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents			·
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		0
						1 17	('orreated	
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Removed or	ASME
	Name of Component	Manufacturer	Serial	N B Number	Other Identification (Size)	Year Built	Removed or Installed	ASIVIE Code Stamped
:	Name of Component	Manufacturer	Serial Number	N B Number	Den Maria In 1977 A 1976 D (D)	Year Built	Removed or Installed	ASIME Code Stamped (yes or no)
A	Name of Component Base Metal	Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR-	Year Built 2008	Removed or Installed	ASME Code Stamped (yes or no) Yes
A	Name of Component Base Metal Repair	Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR- 1 on valve 2NC005	Year Built 2008	Removed or Installed	ASIME Code Stamped (yes or no) Yes
A B	Name of Component Base Metal Repair	Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR- 1 on valve 2NC005	Year Built 2008	Removed or Installed Corrected	ASIME Code Stamped (yes or no) Yes
AB	Name of Component Base Metal Repair	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR- 1 on valve 2NC005	Year Built 2008	Corrected Corrected	ASIVIE Code Stamped (yes or no) Yes
A B C	Name of Component Base Metal Repair	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR- 1 on valve 2NC005	Year Built 2008	Corrected -	ASIME Code Stamped (yes or no) Yes -
A B C	Name of Component Base Metal Repair	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR- 1 on valve 2NC005	Year Built 2008	Corrected -	ASIVIE Code Stamped (yes or no) Yes -
A B C D	Name of Component Base Metal Repair	Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR- 1 on valve 2NC005	Year Built 2008	Corrected - -	ASIME Code Stamped (yes or no) Yes -
A B C D	Name of Component Base Metal Repair	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR- 1 on valve 2NC005	Year Built 2008	Corrected - -	ASIVIE Code Stamped (yes or no) Yes - -
A B C D E	Name of Component Base Metal Repair	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR- 1 on valve 2NC005	Year Built 2008	Corrected - -	ASIME Code Stamped (yes or no) Yes -
A B C D E F	Name of Component Base Metal Repair	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR- 1 on valve 2NC005	Year Built 2008	- Corrected	ASME Code Stamped (yes or no) Yes - -
A B C D E F	Name of Component Base Metal Repair	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NC	N B Number 171	Base Metal Repair #E371A-19-6-BMR- 1 on valve 2NC005	Year Built 2008	- Corrected	ASME Code Stamped (yes or no) Yes - -

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lists, information in items 1 through 6 on this reported at the top of this form.	sketches, or drawings may be used, p rts included on each sheet, and (3) eac	rovided (1) size is 81/2in. x 11 in. (2) ch sheet is numbered and the number of sheets is
 Description of Work Weld Repair on Val- Test Conducted: Hydrostatic Pneum 	ve 2NC005_ natic 🔲 Nominal Operating Pressure	Other Exempt
Pressure psig	Test Temp. deg.F.	
9. Remarks _ Code CasesNONE_		
	(Applicable Manufacturers Data Reco	ords to be attached)
······	CERTIFICATE OF COMPLIAN	CE
We certify that the statements made rules of the ASME Code, Section XI.	in the report are correct and this repa	ir or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	E	Expiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u>		
Signed	<u>TECH SPEC II</u> Date <u>3/9</u> le	,20 <u>09</u>
	· · · · · · · · · · · · · · · · · · ·	
·		
CER	TIFICATE OF INSERVICE INSP	ECTION
I, the undersigned, holding a valid commission	on issued by the National Board of Bo	piler and Pressure Vessel Inspectors and the
State or Province of \underline{SC} and end described in this Owners Report during the public f, the Owner has performed examination the requirements of the ASME Code, Section By signing this certificate neither the Inspect examinations and corrective measure describe be liable in any manner for any personal inju- inspection.	ployed by <u>HSB I AND I Company</u> period $4-9-08$ to $4-23-00$ is and taken corrective measures descr in XI. or nor his employer makes any warranted in this Owners Report. Furthermo ry or property damage or a loss of any	of Connecticut have inspected the components 2 and state that to the best of my knowledge and ribed in this Owner's Report in accordance with hty, expressed or implied, concerning the re, neither the Inspector nor his employer shall y kind arising from or connected with this
Date 3-23,20 DC	Commissions <u>5 C</u> 2	33 INA

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.	Owner <u>DUKE ENERC</u>	<u>FY</u>			1a Date 4/13/09	Ś	Sheet 1 of 1	
•	Address 526 S. CHUR	CH STREET. C	CHARLOTTE N	.C. 28201-	1006			
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 1 1	3 🗍 Sh	ared (specify U	Units)
	Address 4800 CONCO	RD RD. YORK	. S.C. 29745	,		· • • • • •		· سـ ·
3.	Work Performed By	Duke Energy			3a Work Order # 1779932-06	,		
	Address 526 S. Chu	rch St. Charlotte	. N.C. 28201-10)06			•	
•	Type Code Symbol	Stamp N/A Aut	norization No. N	I/A	3b NSM or MN # NA			
	Expiration Date N/	4		<u></u>				
4	Identification of Sys	_ tem_NISAFET	Y INJECTION	SYSTEM	Class A			
5	(a) Applicable Const	ruction Code III	1974 Edition	S'75 Adder	ida. Code Cases			•
	(b) Applicable Editio	on of Section XI	Utilized for Rer	pairs or Rer	placements 1998 Addenda 2000			
6	Identification of Cor	npopents Repair	red or Replacem	ent Compo	nents		. .	
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
	Containin 1		Corumni 2	4		6		8
i				·		<u> </u>	<u> </u>	
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Name of Component	Name of Manufacturer	Manufacturer Serial	N B Number	Other Identification (Size)	Year Built	Corrected, Removed or	ASME Code
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	N B Number	Other Identification (Size)	Year Built	Corrected, Removed or Installed	ASME Code Stamped
	Name of Component Seal Weld	Name of Manufacturer	Manufacturer Serial Number C-2NI	N B Number	Other Identification (Size) Body to Bonnet Seal Weld for valve	Year Built 2009	Corrected, Removed or Installed	ASME Code Stamped (yes or no) Yes
A	Name of Component Seal Weld	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NI	N B Number 172	Other Identification (Size) Body to Bonnet Seal Weld for valve 2NI-352	Year Built 2009	Corrected, Removed or Installed Installed	ASME Code Stamped (yes or no) Yes.
A	Name of Component Seal Weld	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NI	N B Number 172	Other Identification (Size) Body to Bonnet Seal Weld for valve 2NI-352	Year Built 2009	Corrected, Removed or Installed Installed	ASME Code Stamped (yes or no) Yes.
A B	Name of Component Seal Weld	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NI	N B Number 172	Other Identification (Size) Body to Bonnet Seal Weld for valve 2NI-352	Year Built 2009	Corrected, Removed or Installed Installed	ASME Code Stamped (yes or no) Yes.
A B C	Name of Component Seal Weld	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NI	N B Number 172	Other Identification (Size) Body to Bonnet Seal Weld for valve 2NI-352	Year Built 2009	Corrected, Removed or Installed Installed	ASME Code Stamped (yes or no) Yes.
A B C	Name of Component Seal Weld	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NI	N B Number 172	Other Identification (Size) Body to Bonnet Seal Weld for valve 2NI-352	Year Built 2009	Corrected, Removed or Installed Installed -	ASME Code Stamped (yes or no) Yes. -
A B C	Name of Component Seal Weld	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NI	N B Number 172	Other Identification (Size) Body to Bonnet Seal Weld for valve 2NI-352	Year Built 2009	Corrected, Removed or Installed Installed -	ASME Code Stamped (yes or no) Yes. -
A B C D	Name of Component Seal Weld	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NI	N B Number 172	Other Identification (Size) Body to Bonnet Seal Weld for valve 2NI-352	Year Built 2009	Corrected, Removed or Installed Installed - -	ASME Code Stamped (yes or no) Yes. -
A B C D E	Name of Component Seal Weld	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NI	N B Number 172	Other Identification (Size) Body to Bonnet Seal Weld for valve 2NI-352	Year Built 2009	Corrected, Removed or Installed Installed - -	ASME Code Stamped (yes or no) Yes. - -
A B C D E	Name of Component Seal Weld	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NI	N B Number 172	Other Identification (Size) Body to Bonnet Seal Weld for valve 2NI-352	Year Built 2009	Corrected, Removed or Installed Installed - -	ASME Code Stamped (yes or no) Yes. - - -
A B C D F	Name of Component Seal Weld	Name of Manufacturer Duke Energy	Manufacturer Serial Number C-2NI	N B Number 172	Other Identification (Size) Body to Bonnet Seal Weld for valve 2NI-352	Year Built 2009	Corrected, Removed or Installed - - -	ASME Code Stamped (yes or no) Yes. - - -

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lists, sketch information in items 1 through 6 on this reports incl recorded at the top of this form.	hes, or drawings may be used, provide luded on each sheet, and (3) each shee	ed (1) size is 81/2in. x 11 in. (2) et is numbered and the number of sheets is
7. Description of Work Repair Valve 2NI-352_		
8. Test Conducted: Hydrostatic Pneumatic Pressure psig Test T	Nominal Operating Pressure Cemp. deg.F.	Other Exempt
9. Remarks _ Code CasesNONE		·
(Appl:	icable Manufacturers Data Records to	be attached)
CER We certify that the statements made in the rules of the ASME Code, Section XI.	TIFICATE OF COMPLIANCE report are correct and this <u>repair or re</u>	placement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	Expirat	ion Date <u>N/A</u>
Certificate of Authorization No. N/A		
Signed Auto J State TEC Owner or Owner's Designee, Title	<u>H SPEC II</u> Date <u>4/6</u> ,2	0 <u>09</u>
		· · · · ·
CERTIFIC	CATE OF INSERVICE INSPECTION	ON
I, the undersigned, holding a valid commission issu	ed by the National Board of Boiler an	d Pressure Vessel Inspectors and the
State or Province of SC and employe	d by HSB I AND I Company of Co	nnecticut have inspected the components

described in this Owners Report during the period $\underline{s-2o-of}$ to $\underline{s-2o-of}$ 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.

arthe Inspector's Signature

Commissions SC 237 TNA

Date 5-20,2009

Section E Exhibit A

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	ç	Sheet 1 of 1	
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006					1006	14 E		
2. Plant CATAWBA NUCLEAR STATION					$2a$ Unit $\Box 1$ $\Box 2$	3 🗌 Sh	ared (specify II	nits)
Address 4800 CONCORD RD YORK SC 29745						utou (speenij e		
3	Work Performed By	Duke Energy	, 0.0.277.0		3a Work Order # 1820477-01			
5.	Address 526 S Chu	rch St. Charlotte	NC 28201-10	006				
	Type Code Symbol	Stamp N/A Aut	porization No. N	<u>//</u>	3b NSM or MN # NA			
	Expiration Date N/	A	1011240011110. <u>11</u>					
4	Identification of Sys	tem NC REAC	TOR COOLAN	T SYSTEM	f Class A			
5	(a) Applicable Const	ruction Code III	1974 Edition	S'75 Adder	da. Code Cases			
	(b) Applicable Editic	on of Section XI	Utilized for Rer	pairs or Rer	lacements 1998 Addenda 2000			-4
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
			001011110	4	· · · · ·	6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
							Installed	Stamped
			Number				Instanco	(yes or no)
A	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant	NA	Installed	(yes or no) No
A	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed	(yes or no) No
AB	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed	(yes or no) No -
A B	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed	(yes or no) No -
A B C	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed -	(yes or no) No -
A B C	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed -	(yes or no) No -
A B C D	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed - -	(yes or no) No -
A B C D	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed - -	(yes or no) No - -
A B C D E	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed - -	(yes or no) No - - -
A B C D E	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed - -	(yes or no) No - - -
A B C D E F	Bolting	NA	Number NA	NA	Hex Nut- SA194 for Reactor Coolant Pump 2A	NA	Installed 	(yes or no) No - - -

				-	
		·			
			·		
ASME Section XI Manual	Form NI	S-2 (Back)	Section E	Exibit A	• •
NOTE: Supplemental sheets in for information in items 1 through 6 or recorded at the top of this form.	m of lists, sketches, or draw n this reports included on eac	ings may be used, p ch sheet, and (3) eac	rovided (1) size is h sheet is number	81/2in. x 11 in. (2 ed and the number) of sheets is
- · ·					
7. Description of Work Inspect RC	CP 2A Seal_	, . ,	V		
8. Test Conducted: Hydrostatic Pressure psig	Pneumatic Nominal Test Temp.	Operating Pressure deg.F.	Other] Exempt 🔀	•
9. Remarks Code Cases N	IONE	. · · · · ·			
		· · · · · · · · · · · · · · · · · · ·		······	_ ·
	(Applicable Manu	ifacturers Data Reco	ords to be attached	<u>.</u>	~
	~-FF			· .	i
We certify that the statemer rules of the ASME Code, Section 3	CERTIFICATE ents made in the report are c KI.	COF COMPLIANC correct and this <u>repai</u>	CE ir or replacement	conforms to the rul	les of the
Type Code Symbol Stamp <u>N/A</u>	•	E	xpiration Date <u>N</u>	/ <u>A</u>	
Certificate of Authorization No.	J/A	•	4		
$\frac{1}{1} \int A = 1 \int A$		11.			
Signed	TECH SPEC II	Date <u>4/30</u>	,20 <u>09</u>		
Owner of Owner SL	Jesignee, Thie				
, ••					
				· · · · · · · · · · · · · · · · · · ·	
	CERTIFICATE OF I	NSERVICE INSPI	ECTION		
I, the undersigned, holding a valid	CERTIFICATE OF I	NSERVICE INSPI ational Board of Bo	ECTION iler and Pressure	Vessel Inspectors a	nd the
I, the undersigned, holding a valid	CERTIFICATE OF I commission issued by the N	NSERVICE INSPI ational Board of Bo	ECTION iler and Pressure	Vessel Inspectors a	nd the
I, the undersigned, holding a valid State or Province of <u>f</u>	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period 3 3 3 5	NSERVICE INSPI ational Board of Bo <u>AND I Company</u>	ECTION iler and Pressure of Connecticut and state that to	Vessel Inspectors a have inspected the	nd the components
I, the undersigned, holding a valid State or Province of <u>5 c</u> described in this Owners Report d belief, the Owner has performed ex	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period _ ? -2.3.0 caminations and taken correct	NSERVICE INSP ational Board of Bo <u>AND I Company</u> 99_ to <u>5-/3-09</u> ctive measures descr	ECTION iler and Pressure of Connecticut and state that to ribed in this Owne	Vessel Inspectors a have inspected the o the best of my known er's Report in according	nd the components owledge and dance with
I, the undersigned, holding a valid State or Province of <u>f</u> described in this Owners Report dubelief, the Owner has performed ex the requirements of the ASME Coo By signing this certificate neither the	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period	NSERVICE INSP ational Board of Bo <u>AND I Company</u> of to <u>5-/3-09</u> ctive measures descr er makes any warra	ECTION iler and Pressure of Connecticut and state that to ribed in this Owne	Vessel Inspectors a have inspected the o the best of my known er's Report in accor mplied concerning	nd the components owledge and dance with
I, the undersigned, holding a valid State or Province of <u>f</u> described in this Owners Report d belief, the Owner has performed ex the requirements of the ASME Coo By signing this certificate neither th examinations and corrective measu	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period _ <u>7-2</u> 3 . caminations and taken correct de, Section XI. he Inspector nor his employed are described in this Owners	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> 9 to <u>5-/3-09</u> ctive measures descr er makes any warrar Report. Furthermo	ECTION iler and Pressure of Connecticut and state that to ribed in this Owne ity, expressed or i re, neither the Ins	Vessel Inspectors a have inspected the o the best of my kno er's Report in accor mplied, concerning pector nor his empl	and the components owledge and dance with the oyer shall
I, the undersigned, holding a valid State or Province of <u>f</u> described in this Owners Report do belief, the Owner has performed ex the requirements of the ASME Coo By signing this certificate neither the examinations and corrective measure be liable in any manner for any per-	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period _ ? -2 ? - <i>g</i> caminations and taken correct de, Section XI. he Inspector nor his employed the described in this Owners rsonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> of to <u>5-/3-09</u> ctive measures descr er makes any warrar Report. Furthermon nage or a loss of any	ECTION iler and Pressure of Connecticut and state that to ribed in this Owner ity, expressed or i re, neither the Ins v kind arising from	Vessel Inspectors a have inspected the o the best of my known er's Report in accorn mplied, concerning pector nor his empl n or connected with	and the components owledge and dance with the oyer shall this
I, the undersigned, holding a valid State or Province of <u>f</u> described in this Owners Report de belief, the Owner has performed ex the requirements of the ASME Coo By signing this certificate neither the examinations and corrective measus be liable in any manner for any per inspection.	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period <u>7-23-0</u> caminations and taken correct de, Section XI. he Inspector nor his employed ure described in this Owners rsonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> 9 to <u>5-/3-09</u> ctive measures descr er makes any warrar Report. Furthermon nage or a loss of any	ECTION iler and Pressure of Connecticut and state that to ribed in this Owne ity, expressed or i re, neither the Ins kind arising from	Vessel Inspectors a have inspected the o the best of my kno er's Report in accor mplied, concerning pector nor his empl n or connected with	and the components owledge and dance with the oyer shall this
I, the undersigned, holding a valid State or Province of <u>fc</u> described in this Owners Report de belief, the Owner has performed ex the requirements of the ASME Coo By signing this certificate neither the examinations and corrective measu be liable in any manner for any per inspection.	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period ? - 2 3 - p caminations and taken correct de, Section XI. he Inspector nor his employed are described in this Owners resonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> 9_ to <u>5-/3-09</u> ctive measures descr er makes any warrar Report. Furthermon nage or a loss of any	ECTION iler and Pressure of Connecticut and state that to ribed in this Owne ity, expressed or i re, neither the Ins kind arising from	Vessel Inspectors a have inspected the o the best of my kno er's Report in accor mplied, concerning pector nor his empl n or connected with	and the components owledge and dance with the oyer shall this
I, the undersigned, holding a valid State or Province of <u>f</u> described in this Owners Report d belief, the Owner has performed ex the requirements of the ASME Coo By signing this certificate neither the examinations and corrective measu be liable in any manner for any per inspection. <u>Kaunth</u> Month Inspector's Signature	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period ? - 2 3 - p caminations and taken correct de, Section XI. he Inspector nor his employed the described in this Owners resonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> $29_to 5-/3-09ctive measures descrer makes any warrarReport. Furthermonnage or a loss of anyssions 56 23$	ECTION iller and Pressure of Connecticut and state that to ribed in this Owner ity, expressed or i re, neither the Ins kind arising from	Vessel Inspectors a have inspected the o the best of my known er's Report in accor mplied, concerning pector nor his empl n or connected with	and the components owledge and dance with the oyer shall this
I, the undersigned, holding a valid State or Province of <u>fc</u> described in this Owners Report d belief, the Owner has performed ex the requirements of the ASME Coo By signing this certificate neither the examinations and corrective measure be liable in any manner for any per inspection. <u>Kumuth Month</u> Inspector's Signature	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period <u>7-23.0</u> caminations and taken correct te, Section XI. he Inspector nor his employed in this Owners resonal injury or property dan	NSERVICE INSP ational Board of Bo <u>AND I Company</u> 99 to <u>5-/3-09</u> ctive measures descr er makes any warrar Report. Furthermon nage or a loss of any ssions <u>5 (2.3</u>	ECTION iler and Pressure <u>of Connecticut</u> and state that to ribed in this Owne ity, expressed or i re, neither the Ins kind arising from 3 IN A	Vessel Inspectors a have inspected the o the best of my kno er's Report in accor mplied, concerning pector nor his empl n or connected with	and the components owledge and dance with the oyer shall this
I, the undersigned, holding a valid State or Province of $\underline{\varsigma c}$ described in this Owners Report d belief, the Owner has performed ex the requirements of the ASME Coo By signing this certificate neither the examinations and corrective measu be liable in any manner for any per inspection. $\mathcal{K}_{\text{curve the Monthele}}$ Inspector's Signature Date $\varsigma_{-1} \varsigma_{-2} \varsigma_{-2} \varrho \varsigma_{-2}$	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period _ ?-2 ?.c caminations and taken correct de, Section XI. he Inspector nor his employed the described in this Owners rsonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> 29_{-} to <u>5-/3-09</u> ctive measures descr er makes any warrar Report. Furthermon nage or a loss of any ssions <u>$\xi \in 2.3^{-}$</u>	ECTION iler and Pressure of Connecticut and state that to ribed in this Owne ity, expressed or i re, neither the Ins kind arising from	Vessel Inspectors a have inspected the o the best of my kno er's Report in accor mplied, concerning pector nor his empl n or connected with	and the components owledge and dance with the oyer shall this
I, the undersigned, holding a valid State or Province of <u>f</u> (described in this Owners Report d belief, the Owner has performed ex- the requirements of the ASME Coo By signing this certificate neither the examinations and corrective measure be liable in any manner for any per- inspection. <u>Keyentth</u> <u>Montth</u> Inspector's Signature Date <u>f-13</u> ,20 <u>9</u> g	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period ? - 2 3 - 0 caminations and taken correct de, Section XI. he Inspector nor his employed ire described in this Owners resonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> 9 to <u>5-/3-09</u> ctive measures descr er makes any warrar Report. Furthermon nage or a loss of any ssions <u>\$ 2.3</u>	ECTION iler and Pressure of Connecticut and state that to ribed in this Owne ity, expressed or i re, neither the Ins kind arising from	Vessel Inspectors a have inspected the o the best of my kno er's Report in accor mplied, concerning pector nor his empl n or connected with	and the components owledge and dance with the oyer shall this
I, the undersigned, holding a valid State or Province of <u>f</u> (described in this Owners Report d belief, the Owner has performed ex the requirements of the ASME Coo By signing this certificate neither the examinations and corrective measu be liable in any manner for any per inspection. <u>Hermith Month</u> Inspector's Signature Date <u>f-13</u> ,2009	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period ?-2 ?- <u>e</u> caminations and taken correct te, Section XI. he Inspector nor his employed are described in this Owners rsonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> $29_to 5-/3-09ctive measures descrer makes any warrarReport. Furthermonnage or a loss of anyssions 56 23$	ECTION iler and Pressure of Connecticut and state that to ribed in this Owne ity, expressed or i re, neither the Ins kind arising from 3 I N A	Vessel Inspectors a have inspected the o the best of my kno er's Report in accor mplied, concerning pector nor his empl n or connected with	and the components owledge and dance with the oyer shall this evision 6
I, the undersigned, holding a valid State or Province of $\underline{\varsigma}$ described in this Owners Report d belief, the Owner has performed ex the requirements of the ASME Coc By signing this certificate neither the examinations and corrective measure be liable in any manner for any per inspection. $\underline{\mathcal{K}}$ Inspector's Signature Date $\underline{\varsigma}$ 13, 2009	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period <u>7-2</u> 3 - <u>c</u> caminations and taken correct de, Section XI. he Inspector nor his employed are described in this Owners resonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> $29_to 5-/3-09ctive measures descrer makes any warrarReport. Furthermonnage or a loss of anyssions 5 \le 2.3$	ECTION iller and Pressure of Connecticut and state that to ribed in this Owne ity, expressed or i re, neither the Ins kind arising from	Vessel Inspectors a have inspected the o the best of my known or's Report in accorn mplied, concerning pector nor his emplen or connected with	and the components owledge and dance with the oyer shall this evision 6
I, the undersigned, holding a valid State or Province of $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period ?.23.00 caminations and taken correct te, Section XI. he Inspector nor his employed in this Owners resonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> 29 to <u>5-/3-09</u> ctive measures descr er makes any warrar Report. Furthermon nage or a loss of any ssions <u>$5 \le 2.3$</u>	ECTION iler and Pressure <u>of Connecticut</u> and state that to ribed in this Owne aty, expressed or i re, neither the Insy kind arising from 3 I M A	Vessel Inspectors a have inspected the o the best of my kno er's Report in accor mplied, concerning pector nor his empl n or connected with	evision 6
I, the undersigned, holding a valid State or Province of $ $	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period <u>7-2</u> 3 - g caminations and taken correct de, Section XI. he Inspector nor his employed are described in this Owners rsonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> 9 to 5-/3-09ctive measures descrer makes any warrarReport. Furthermonnage or a loss of anyssions 56 23	ECTION iler and Pressure of Connecticut and state that to ribed in this Owne ity, expressed or i re, neither the Ins whind arising from 3 I IV A	Vessel Inspectors a have inspected the o the best of my kno er's Report in accor mplied, concerning pector nor his empl n or connected with	evision 6
I, the undersigned, holding a valid State or Province of $\underline{\varsigma}$ described in this Owners Report d belief, the Owner has performed ex- the requirements of the ASME Coo By signing this certificate neither the examinations and corrective measu be liable in any manner for any per inspection. \mathcal{K} Inspector's Signature Date $\underline{\varsigma}$ - 1 3 20 9 9	CERTIFICATE OF I commission issued by the N and employed by <u>HSB I</u> uring the period <u>3-23.0</u> caminations and taken correct de, Section XI. he Inspector nor his employed ire described in this Owners resonal injury or property dan	NSERVICE INSPI ational Board of Bo <u>AND I Company</u> 9 to $5 - 13 - 09$ ctive measures descr er makes any warrar Report. Furthermon nage or a loss of any ssions $5 < 2.3$	ECTION iler and Pressure <u>of Connecticut</u> and state that to ribed in this Owne ity, expressed or i re, neither the Ins kind arising from 3 IN A	Vessel Inspectors a have inspected the o the best of my kno er's Report in accor mplied, concerning pector nor his empl n or connected with	evision 6

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner <u>DUKE ENERGY</u>					1a Date 4/30/09		Sheet 1 of 1	
	Address <u>526 S. CHUR</u>	CH STREET. C	CHARLOTTE N	<u>.C. 28201-</u>	<u>1006</u>	. .		. — .
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		$2a Unit \square 1 \square 2 \square$	3 📋 Sh	ared (specify U	nits)
	Address 4800 CONCC	RD RD. YORK	, S.C. 29745	•	· · · · ·			
3. Work Performed By <u>Duke Energy</u> 3a Work Order # 1722492-60								
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>				
	Type Code Symbol	Stamp <u>N/A</u> Autl	horization No. <u>N</u>	<u>I/A</u>	3b NSM or MN # CD200710			
	Expiration Date <u>N/</u>	<u>A</u>						
4	Identification of Sys	tem NC REAC	TOR COOLAN	T SYSTEM	I Class A		•	
5.	(a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	nda, Code Cases	• •		
. ((b) Applicable Edition	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Con	mponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
			Number			· .	Installed	(yes or no)
Α	Pipe/Fitting	Duke Energy	C-2NC	171	2NC System	1985	Installed	Yes
B.	Valve	Fisher	6306295	3920	Valve tag 2NC27	1979	Removed	Yes
С	Valve	Fisher	18059880	NÁ	Valve tag 2NC27	2008	Installed	Yes
D	•	,					-	-
	· · ·						· · ·	
E	· · · · · · · · · · · · · · · · · · ·	·.		· · · · ·			-	-
	· · · · ·		· .					
F		· · · · · · · · · · · · · · · · · · ·		·			-	-
						i.		

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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lists, information in items 1 through 6 on this reported at the top of this form.	, sketches, or drawings may be used, orts included on each sheet, and (3) e	provided (1) size is $81/2$ in x 11 in. (2) each sheet is numbered and the number of sheets is
7. Description of Work Replace Valve 2NC	27_	re 🕅 Other 🗌 Exempt 🗖
Pressure 2245 psig	Test Temp. 557 deg.F.	
9. Remarks _ Code CasesNONE_		· · · · · · · · · · · · · · · · · · ·
	(Applicable Manufacturers Data Re	ecords to be attached)
We certify that the statements made rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIA in the report are correct and this rep	NCE <u>pair or replacement</u> conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	an a	Expiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Signed	<u>TECH SPEC II</u> Date <u>4//3</u> (tle	<u>ر م 20</u> ,20
CEF	RTIFICATE OF INSERVICE INS	PECTION
I, the undersigned, holding a valid commission	on issued by the National Board of I	Boiler and Pressure Vessel Inspectors and the
State or Province of $\underline{\boldsymbol{\varsigma}} \underline{\boldsymbol{\varsigma}}$ and end described in this Owners Report during the belief, the Owner has performed examination the requirements of the ASME Code, Section By signing this certificate neither the Inspect examinations and corrective measure describe be liable in any manner for any personal inju- inspection.	nployed by <u>HSB I AND I Company</u> period <u>12-11 ~ 5 - 4 - 97</u> to <u>5 - 4 - 97</u> ns and taken corrective measures dee n XI. tor nor his employer makes any warn bed in this Owners Report. Furthern my or property damage or a loss of a	y of Connecticut have inspected the components and state that to the best of my knowledge and scribed in this Owner's Report in accordance with ranty, expressed or implied, concerning the hore, neither the Inspector nor his employer shall my kind arising from or connected with this
Inspector's Signature	Commissions <u>Sc</u> 2.3	3 INA
Date 5-6,20 <u>0</u> 9		

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.0	Owner DUKE ENERC	<u>FY</u>			1a Date 4/30/09	S	Sheet 1 of 1	
1	Address 526 S. CHUR	CH STREET. C	CHARLOTTE N	.C. 28201-	<u>1006</u>			•
2.1	Plant CATAWBA NU	UCLEAR STAT	ION		2a Unit 1 22	3 🗌 Sh	ared (specify U	nits)
	Address 4800 CONCO	RD RD. YORK	, S.C. 29745			—		
3.	Work Performed By	Duke Energy			3a Work Order # 1722494-43			
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>				
	Type Code Symbol	Stamp <u>N/A_</u> Autl	norization No. <u>N</u>	[<u>/A</u>	3b NSM or MN # CD200710	*		
	Expiration Date N/A	<u>4</u>						
4	Identification of Sys	tem NC REAC	TOR COOLAN	T SYSTEM	f Class A			
5.	(a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	ida, Code Cases			
((b) Applicable Editic	n of Section XI	Utilized for Rep	oairs or Rep	blacements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents	<u></u>		. <u>.</u>
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	-		Number				Installed	(yes or no)
A	Pipe/Fitting	Duke Energy	C-2NC	171	2NC System	1985	Installed	Yes
В	Valve	Fisher	6306297	3922	Valve tag 2NC29	1979	Removed	Yes
			, , , , , , , , , , , , , , , , , , ,					
C	Valve	Fisher	18059879	NA	Valve tag 2NC29	2008	Installed	Yes
			·					
D		-					-	-
E							-	-
					· · · · · · · · · · · · · · · · · · ·		·	
F	-						-	-
					·			

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lis information in items 1 through 6 on this rep recorded at the top of this form.	ts, sketches, or drawings may be used, proports included on each sheet, and (3) each	ovided (1) size is $81/2$ in. x 11 in. (2) sheet is numbered and the number of sheets is
7. Description of Work Replace Valve 2N	[C29_	
8. Test Conducted: Hydrostatic Pner Pressure 2245 psig	umatic Nominal Operating Pressure Test Temp. 557 deg.F.	Other Exempt
9. Remarks _ Code CasesNONE		
	(Applicable Manufacturers Data Recor	ds to be attached)
We certify that the statements may rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIANC de in the report are correct and this <u>repair</u>	E <u>or replacement</u> conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	Ex	piration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u>		
Signed	<u>TECH SPEC II</u> Date <u>4/30</u> Title	,20_
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	· · · · · · · · · · · · · · · · · · ·	
СІ	ERTIFICATE OF INSERVICE INSPE	CTION
I, the undersigned, holding a valid commis	sion issued by the National Board of Boil	er and Pressure Vessel Inspectors and the

State or Province of $\underline{5C}$ and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{12-16-09}$ to $\underline{5-11-09}$ 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.

Inspector's Signature

Commissions NB12410 INA

Date 5-11_,20_09_

Section E Exhibit A

FORM NIS-2 C	DWNER'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	S	Sheet 1 of 1	·
A	Address <u>526 S. CHUR</u>	<u>CH STREET. C</u>	<u>CHARLOTTE N</u>	<u>.C. 28201-1</u>		•	-	
2. F	Plant CATAWBA NU	CLEAR STAT	ION		$2a \text{ Unit } 1 X ^2 1$	3 📋 Sh	ared (specify U	nits)
- '	Address 4800 CONCO	RD RD. YORK	., S.C. 29745		0 W 1 0 1 // 1010007 40			
3.	Work Performed By	Duke Energy			3a Work Order # 1819297-40			
	Address <u>526 S. Chu</u>	rch St. Charlotte	<u>, N.C. 28201-10</u>	<u>106</u>				
	Type Code Symbol	Stamp <u>N/A</u> Auth	norization No. <u>N</u>	<u>/A</u>	36 NSM or MN # CD201489			
	Expiration Date N/A	<u>A</u>		-				, .
4	Identification of Sys	tem NC REAC	TOR COOLAN	T SYSTEM	1 Class A			
5. ((a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	da, Code Cases			
. ((b) Applicable Editio	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents			·
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		°
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code Stamped
			Number				mistaned	(yes or no)
A	Pipe	Duke Energy	C-2NC	171	Base metal repair on the Reactor Vessel "A" Hot Leg.	1985	Corrected	Yes
В							-	-
					·			<u> </u>
С							-	-
								<u> </u>
D							-	-
E					······································			
	•							
F							-	-
						1		1 1

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A			
NOTE: Supplemental sheets in form of lists, ske information in items 1 through 6 on this reports recorded at the top of this form.	tches, or drawings may be used, paint included on each sheet, and (3) eac	rovided (1) size is 81/2in. x 11 in. (2) h sheet is numbered and the number of sheets is			
7. Description of Work Perform Base Metal Re	pair RV Hot Leg "A"				
8. Test Conducted: Hydrostatic Pneumatic Pressure 2244 psig Tes	c Nominal Operating Pressure st Temp. 556 deg.F.	Other Exempt			
9. Remarks _ Code CasesNONE_Ref.	PIP C-09-1818				
	·				
- (Aj	oplicable Manufacturers Data Reco	rds to be attached)			
С	ERTIFICATE OF COMPLIANO	CE			
We certify that the statements made in rules of the ASME Code, Section XI.	the report are correct and this <u>repai</u>	<u>r or replacement</u> conforms to the rules of the			
Type Code Symbol Stamp <u>N/A</u>	E	xpiration Date <u>N/A</u>			
Certificate of Authorization No. N/A					
Signed Owner or Owner's Designee, Title	ECH SPEC II Date 6/11	,20 <u>09</u>			
CERTI	FICATE OF INSERVICE INSPI	ECTION			
I, the undersigned, holding a valid commission i	ssued by the National Board of Bo	iler and Pressure Vessel Inspectors and the			
State or Province of 5 c and employed by HSB I AND I Company of Connecticut have inspectors and the described in this Owners Report during the period $4-11-09$ to $4-11-09$ 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.					
Kesseth Doutlet Inspector's Signature	Commissions _ <u>SC 2</u> 7	3. TNA			

Section E Exhibit A

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	S	heet 1 of 1	
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006					• — ·		, , , , , , , , , , , , , , , , , , , ,	
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		$2a \text{ Unit } 1 \times 2$	3 📋 Sh	ared (specify U	nits])
•	Address 4800 CONCO	RD RD. YORK	., S.C. 29745					
3.	Work Performed By	Duke Energy			3a Work Order # 1819307-24			·
	Address <u>526 S. Chu</u>	rch St. Charlotte	<u>, N.C. 28201-10</u>	<u>)06</u>				
	Type Code Symbol	Stamp <u>N/A</u> Auti	norization No. \underline{N}	/ <u>A</u>	36 NSM of MN # CD201489			
4	Expiration Date $N/2$	\underline{A}						
4	Identification of Sys	tem NC REAC	TOR COULAN	ISYSTEM	1 Class A			
5.	(a) Applicable Const	ruction Code Se	e Comments.	·	1		•	
6	(b) Applicable Editio	on of Section XI	Utilized for Rep	bairs or Rep	blacements 1998 Addenda 2000			
0.	Identification of Cor	nponents Repair	Colorer 2	ent Compo	Column 6	Column	Calumn 7	Column
	Column I	Column 2	Column 3	Column	Column 5	6	Column /	8
	Name of	Name of	Monufacturer	N. D	Other Identification (Size)	Vear	Corrected	ASME
	Component	Manufacturar	Sorial	Number	Other Identification (Size)	Built	Removed or	Code
	Component	Ivialiulactulei	Number	Inumber		Dunt	Installed	Stamped
						1	1	(yes or no)
Δ	Dine	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor	1085	Installed	Vec
A	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI	1985	Installed	Yes
A	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI.	1985	Installed	Yes
AB	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI.	1985	Installed	Yes -
A B C	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI.	1985	Installed -	Yes -
A B C	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI.	1985	Installed	Yes - -
A B C D	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI.	1985	Installed	Yes - -
A B C D	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI.	1985	Installed	Yes - -
A B C D E	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI.	1985	Installed	Yes - - -
A B C D E	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI.	1985	Installed	Yes - - -
A B C D E F	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor Vessel "B" Hot Leg performed by WSI.	1985	Installed - - - -	Yes - - - -

ASME Section XI Manual Form NIS-2 (Back) Section E Exibit A 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). (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 alts 1 TECH SPEC II Date 6/3 ,2009 Signed 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 5 C and employed by HSB I AND I Company of Connecticut have inspected the components described in this Owners Report during the period <u>1-3-09</u> to <u>1-3-09</u> 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. Inspector's Signature Commissions <u>SC233 ZNR</u> Date 1-3 ,2009

Section E Exhibit A

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	SI	neet 1 of 1		
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006				<u>1006</u>				
2. Plant CATAWBA NUCLEAR STATION				2a Unit 🔲 1 🛛 📿 🗌	3 🔲 Sh	ared (specify U	nits)	
	Address 4800 CONCO	RD RD. YORK	, S.C. 29745					
3.	Work Performed By	Duke Energy			3a Work Order # 1819309-23	-		
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	006				
	Type Code Symbol	Stamp N/A Autl	norization No. N	I/A	3b NSM or MN # CD201489			
	Expiration Date N/	A						
4	Identification of Svs	tem NC REAC	TOR COOLAN	T SYSTEM	Class A			
5.	(a) Applicable Const	ruction Code Se	e Comments.					
	(b) Applicable Edition	on of Section XI	Utilized for Ren	pairs or Rer	placements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
			001011111	4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	Component		Number	1			Installed	Stamped (ves or no)
A	Pipe	Duke Energy	C-2NC	171	Allov 600 Weld Overlay on the Reactor	1985	Installed	Yes
	r -				Vessel "C" Hot Leg performed by WSI.			
B			·····	<u></u>				
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C	·						-	-
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Revision 6

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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A				
NOTE: Supplemental sheets in form of lists information in items 1 through 6 on this rep recorded at the top of this form.	s, sketches, or drawings may be used, provorts included on each sheet, and (3) each s	rided (1) size is 81/2in. x 11 in. (2) heet is numbered and the number of sheets is				
7. Description of Work Reactor Vessel "C"	' Hot Leg Weld Overlay_	·				
8. Test Conducted: Hydrostatic Pneu Pressure 2244 psig	matic 🗌 Nominal Operating Pressure 🔀 Test Temp. 556 deg.F.] Other Exempt				
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	s to be attached)				
We certify that the statements mad rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIANCE le in the report are correct and this <u>repair o</u>	r replacement conforms to the rules of the				
Type Code Symbol Stamp <u>N/A</u>	Exp	iration Date <u>N/A</u>				
Certificate of Authorization No. <u>N/A</u> Signed <u>Authorization No. TECH SPEC II</u> Date <u>6/3</u> ,20 <u>49</u> Owner or Owner's Designee, Title						
						
СЕ	RTIFICATE OF INSERVICE INSPEC	TION				

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

State or Province of \underline{fc} and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{f \cdot 3 \cdot pq}$ to $\underline{f \cdot 7 \cdot pq}$ 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.

Inspector's Signature

Commissions <u>SC233 Inn</u>

Date <u>6</u>-3 __,20<u>09</u>

Section E Exhibit A

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	SI	neet 1 of 1	
	Address 526 S. CHUR	CH STREET. C	CHARLOTTE N	I.C. 28201-	1006		•	
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🔲 1 🛛 📿 🗌	3 🗌 Sh	ared (specify U	Inits)
	Address 4800 CONCC	RD RD. YORK	L, S.C. 29745		·			
3.	Work Performed By	Duke Power C	<u>'ompany</u>		3a Work Order # 1819310-23			
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u> 206</u>				
	Type Code Symbol	Stamp N/A Aut	horization No. <u>N</u>	V/A	3b NSM or MN # CD201489			
	Expiration Date N/2	A	•			•		
4	Identification of Sys	stem NC REAC	TOR COOLAN	T SYSTEM	1 Class A			
5.	(a) Applicable Const	ruction Code S	ee Comments.					
	(b) Applicable Edition	on of Section XI	Utilized for Rep	pairs or Rep	blacements 1998 Addenda 2000			
6.	Identification of Con	mponents Repair	red or Replacem	ient Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	▲ ·		Number			1	Installed	(yes or no)
A	Pipe	Duke Energy	C-2NC	171	Alloy 600 Weld Overlay on the Reactor	1985	Installed	Yes
	, , , , , , , , , , , , , , , , , , ,				Vessel "D" Hot Leg performed by WSI		-	
В	`	<u>_</u> _	· · ·					-
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C				·			-	-
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D		· · · · · · · · · · · · · · · · · · ·					-	
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E	· · · · · · · · · · · · · · · · · · ·	<u> </u>	······································				•	-
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F			· · · · · · · · · · · · · · · · · · ·					<u> </u> [

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A				
NOTE: Supplemental sheets in form of linformation in items 1 through 6 on this recorded at the top of this form.	ists, sketches, or drawings may be used, pr eports included on each sheet, and (3) each	rovided (1) size is 81/2in. x 11 in. (2) h sheet is numbered and the number of sheets is				
7. Description of Work Reactor Vessel "	D" Hot Leg Weld Overlay_					
 Test Conducted: Hydrostatic Pn Pressure 2244 psig 	eumatic Nominal Operating Pressure Test Temp. 556 deg.F.	Other Exempt				
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).						
<u> </u>	(Applicable Manufacturers Data Reco	ords to be attached)				
We certify that the statements m rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIANC ade in the report are correct and this repai	CE r or replacement conforms to the rules of the				
Type Code Symbol Stamp <u>N/A</u>	E	xpiration Date <u>N/A</u>				
Certificate of Authorization No. <u>N/A</u> Signed	<u>TECH SPEC II</u> Date <u>6/3</u> , Title	,20 <u>09</u>				
· · · ·	·					
	ERTIFICATE OF INSERVICE INSPI	ECTION				

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

State or Province of $\underline{\checkmark}$ and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{\checkmark} - \underline{?} - \underline{\circ} \underline{\varsigma}$ to $\underline{\checkmark} - \underline{?} - \underline{\circ} \underline{\varsigma}$ 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.

Inspector's Signature

Commissions <u>SC237 tNb</u>

Date <u>6-3</u>,20<u>09</u>

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.0	Owner DUKE ENERG	J Y			1a Date 4/23/09	S	Sheet 1 of 1			
	Address 526 S. CHUR	CH STREET. C	CHARLOTTE N	.C. 28201-	1006					
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🗌 1 🔀 2	3 🗍 Sh	ared (specify U	Inits)		
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 <u>N/A</u> Autl	horization No. <u>N</u>	V/A	3b NSM or MN # NA					
	Expiration Date N/A									
4]	Identification of Sys	tem NC REAC	TOR COOLAN	T SYSTEM	1 Class A					
5. ((a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	ida, Code Cases					
((b) Applicable Editic	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000					
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents		·			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column		
				4		6		8		
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year.	Corrected,	ASME		
	Component	Manufacturer	Serial	Number		Built	Installed	Code Stamped		
	·		Number				mistaned	(yes or no)		
Α	Valve	Dresser	BS-02872	NA	Valve tag 2NC-2	1980	Removed	Yes		
	·					[· · · · · · · · · · · · · · · · · · ·			
В	Valve	Dresser	BS-02870	NA	Valve tag 2NC-2	1979	Installed	Yes		
			 					·		
C							-	-		
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D							-	-		
E							-	-		
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ASME Section XI Manual	Form NIS-2 (Back) Section E Exibit A
NOTE: Supplemental sheets in information in items 1 through 6 recorded at the top of this form.	form of lists, sketches, or drawings may be used, provided (1) size is 81/2in. x 11 in. (2) 6 on this reports included on each sheet, and (3) each sheet is numbered and the number of sheets i
7. Description of Work Replace	e Valve 2NC-3_
8. Test Conducted: Hydrostatic Pressure 2233 psig	C Pneumatic Nominal Operating Pressure Other Exempt 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 stat rules of the ASME Code, Section	tements made in the report are correct and this <u>repair or replacement</u> conforms to the rules of the on XI.
Type Code Symbol Stamp <u>N/</u>	Expiration Date <u>N/A</u>
Certificate of Authorization No.	<u>N/A</u>
Signed <u>Author</u> Owner or Owner	TECH SPEC II Date <u>4/23</u> ,2009 r's Designee, Title
Signed <u>AULS Nor</u> Owner or Owner	TECH SPEC II Date <u>423</u> ,2009 r's Designee, Title
Signed <u>Autor State</u> Owner or Owner	TECH SPEC II Date 4/23 ,2009 r's Designee, Title CERTIFICATE OF INSERVICE INSPECTION
Signed <u>AULS Star</u> Owner or Owner	TECH SPEC II Date <u>423</u> ,2009 r's Designee, Title CERTIFICATE OF INSERVICE INSPECTION alid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
I, the undersigned, holding a va State or Province of <u>S</u> C described in this Owners Repor belief, the Owner has performed the requirements of the ASME By signing this certificate neithe examinations and corrective me be liable in any manner for any inspection.	CERTIFICATE OF INSERVICE INSPECTION and employed by HSB I AND I Company of Connecticut have inspectors and the main and employed by HSB I AND I Company of Connecticut have inspected the component t during the period $f_{-1}g_{-0}$ to $f_{-1}g_{-0}g_{-1}$ and state that to the best of my knowledge ard d examinations and taken corrective measures described in this Owner's Report in accordance with Code, Section XI. er the Inspector nor his employer makes any warranty, expressed or implied, concerning the easure described in this Owners Report. Furthermore, neither the Inspector nor his employer shall personal injury or property damage or a loss of any kind arising from or connected with this
Signed <u>Cull S State</u> Owner or Owner Owner or Owner I, the undersigned, holding a va State or Province of <u>S</u> <u>C</u> described in this Owners Repor belief, the Owner has performed the requirements of the ASME of By signing this certificate neither examinations and corrective me be liable in any manner for any inspection.	TECH SPEC II Date $\frac{4}{23}$, 2009 r's Designee, Title CERTIFICATE OF INSERVICE INSPECTION Add commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by HSB I AND I Company of Connecticut have inspected the component t during the period <u>5-19-09</u> to <u>5-19-09</u> and state that to the best of my knowledge ard d examinations and taken corrective measures described in this Owner's Report in accordance with Code, Section XI. er the Inspector nor his employer makes any warranty, expressed or implied, concerning the easure described in this Owners Report. Furthermore, neither the Inspector nor his employer shall personal injury or property damage or a loss of any kind arising from or connected with this
Signed <u>Cull S State</u> Owner or Owner Owner or Owner I, the undersigned, holding a var State or Province of $\leq c$ described in this Owners Repor belief, the Owner has performed the requirements of the ASME By signing this certificate neither examinations and corrective me be liable in any manner for any inspection. Xemate Date $5 - 18^{-}$, 20, 09	CERTIFICATE OF INSERVICE INSPECTION Alid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by HSB I AND I Company of Connecticut have inspected the component t during the period $f_{-1}f_{-0}f_{-0}$ and state that to the best of my knowledge ar d examinations and taken corrective measures described in this Owner's Report in accordance with Code, Section XI. er the Inspector nor his employer makes any warranty, expressed or implied, concerning the easure described in this Owners Report. Furthermore, neither the Inspector nor his employer shall personal injury or property damage or a loss of any kind arising from or connected with this Commissions $\int C 2 3 3 INA$

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

As Required By The Provisions Of The ASME Code Section XI

1.	Owner <u>DUKE ENERC</u>	<u> <u>BY</u></u>			1a Date 4/23/09		Sheet 1 of 1		
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006									
2.1	Plant CATAWBA NU	JCLEAR SŢAT	ION		2a Unit 🔲 1 🛛 🔀 2	3 Sh	ared (specify U	Inits)	
	Address 4800 CONCO	RD RD. YORK	, S.C. 29745	,					
3. Work Performed By <u>Duke Energy</u> 3a Work Order # 1820755-03									
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10)06					
	Type Code Symbol	Stamp N/A Autl	norization No. N	I/A	3b NSM or MN # NA				
	Expiration Date N/A	A 1	-						
4	Identification of Svs	tem NC REAC	TOR COOLAN	T SYSTEM	1 Class A				
5.	(a) Applicable Const	ruction Code III	1974 Edition.	S'75 Adden	da. Code Cases				
	(b) Applicable Editio	on of Section XI	Utilized for Ren	pairs or Ren	lacements 1998 Addenda 2000				
6.	Identification of Cor	mponents Repair	red or Replacem	ent Compo	nents	· .			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column	
			Corumn 5	4		6		8	
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME	
	Component	Manufacturer	Serial	Number		Built	Removed or	Code	
			Number				Installed	Stamped (yes or no)	
A	Valve	Dresser	BS-02870	NA	Valve tag 2NC-3	1980	Removed	Yes	
		210000	200 02010			1,000			
В	Valve	Dresser	BS-02868	NA	Valve tag 2NC-3	1979	Installed	Yes	
	· ·								
С							-	-	
D							-	-	
E	•						-	-	
F					· · · · · · · · · · · · · · · · · · ·		-	- _	

Revision 6

Section E Exhibit A

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A							
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 2N	C-3								
8. Test Conducted: Hydrostatic Pnew Pressure 2233 psig	umatic Nominal Operating Pressur Test Temp. 652.1 deg.F.	e 🛛 Other 🗌 Exempt 🔲							
9. Remarks _ Code CasesNONE_									
	(Applicable Manufacturers Data Rec	cords 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 20 09 Owner or Owner's Designee, Title Date 20 09									
CI	ERTIFICATE OF INSERVICE INSE	PECTION							
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the									
State or Province of <u>f</u> and described in this Owners Report during th belief, the Owner has performed examination the requirements of the ASME Code, Section By signing this certificate neither the Inspective examinations and corrective measure describe be liable in any manner for any personal in	employed by <u>HSB I AND I Company</u> e period <u>$\varsigma_{-1} \varphi_{-0} \varsigma_{-1}$</u> to <u>$\delta_{-1} \varphi_{-0} q_{-0} \varsigma_{-1}$</u> ions and taken corrective measures desc ion XI. ector nor his employer makes any warra- ribed in this Owners Report. Furthermo- niury or property damage or a loss of a	<u>of Connecticut</u> have inspected the components and state that to the best of my knowledge and cribed in this Owner's Report in accordance with anty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall by kind arising from or connected with this							

inspection.

Inspector's Signature 3

Commissions SC 239 TNA

Date 5-14_,20_06

Section E Exhibit A

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	1a Date 4/23/09 Sheet 1 of 1		
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006					1006		· · ·	
2. Plant CATAWBA NUCLEAR STATION				2a Unit 🔲 1 🛛 🔀 2	3 Sh	ared (specify U	nits)	
Address 4800 CONCORD RD. YORK, S.C. 29745					:	,		
3. Work Pe	rformed By	Duke Energy			3a Work Order # 1820756-	03		
Address	526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	006				
Type Co	de Symbol	Stamp N/A Aut	horization No. N	J/A	3b NSM or MN # NA			
Expiratio	n Date <u>N/</u>	A						
4 Identifica	tion of Sys	tem NC REAC	TOR COOLAN	T SYSTEM	1 Class A			
5. (a) Applie	cable Const	ruction Code III	1974 Edition,	S'75 Adden	da, Code Cases			
(b) Appli	cable Editio	on of Section XI	Utilized for Rep	pairs or Rep	lacements 1998 Addenda 2000		·	
6. Identifica	ation of Co	mponents Repair	red or Replacem	ient Compo	nents			
Col	umn 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
Na	me of	Náme of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
Com	ponent	Manufacturer	Serial	Number		Built	Removed or	Code
	1		Number				Installed	Stamped (ves 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
					5			
C	······	· · · · · · · · · · · · · · · · · · ·					•	-
D		· · · ·					-	-
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F			i	··· <u>·····</u> ····························				
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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lists, s information in items 1 through 6 on this report recorded at the top of this form.	sketches, or drawings may be used, p is included on each sheet, and (3) ea	provided (1) size is 81/2in. x 11 in. (2) ch sheet is numbered and the number of sheets is
7. Description of Work Replace Valve 2NC-1	_ '	
8. Test Conducted: Hydrostatic Pneuma Pressure 2233 psig T	tic Nominal Operating Pressure Yest Temp. 652.1 deg.F.	• Other Exempt
9. Remarks _ Code CasesNONE_		
(Applicable Manufacturers Data Rec	ords to be attached)
We certify that the statements made i rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIAN n the report are correct and this repa	CE <u>ir or replacement</u> conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	Ĩ	Expiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Signed Owner or Owner's Designee, Title	<u>TECH SPEC II</u> Date 4/25	,20 <i>09</i>

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 <u>sc</u> and employed by HSB I AND I Company of Connecticut have inspected the components described in this Owners Report during the period $\underline{\varsigma-19-09}$ to $\underline{\varsigma-19-09}$ 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.

Inspector's Signature

Commissions EC233 INA

Date 5-18_,20_09

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.0	Owner <u>DUKE ENERC</u>	<u>Y</u>			1a Date 4/13/09	Sheet 1 of 1		
1	Address 526 S. CHUR	<u>CH STREET. C</u>	CHARLOTTE N	1006				
2.1	Plant CATAWBA NU	UCLEAR STAT	ION		2a Unit 🛄 1 🔀 🗌	3 🗌 Sh	ared (specify U	Inits])
	Address 4800 CONCO	RD RD. YORK	L, S.C. 29745					
3.	Work Performed By	Duke Energy	3a Work Order # 1126797-02					
•	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10					
	Type Code Symbol	Stamp <u>N/A_</u> Autl	horization No. <u>N</u>	<u>I/A</u>	3b NSM or MN # NA			
	Expiration Date N/A	<u>4</u>						
4	Identification of Sys	tem			Class B			
NV	CHEMICAL VOL	UME CONTRO	DL SYSTEM					
5.	(a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	da, Code Cases			
((b) Applicable Editio	n of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents			·····
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB ·	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
			Number					(yes or no)
Ā	Bolting	NA	Na	NA	Valve Cover Bolt- SA564 for valve	NA	Installed	No
					2NV-190			
B							-	-
_			_	1				
C							-	-
D				•			-	-
E							-	-
F							-	-
		· · ·						

	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form o information in items 1 through 6 on this recorded at the top of this form.	f lists, sketches, or drawings may be used, s reports included on each sheet, and (3) ea	provided (1) size is 81/2in. x 11 in. (2) ch sheet is numbered and the number of sheets
ASME Section XI Manual NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used information in items 1 through 6 on this reports included on each sheet, and (3) recorded at the top of this form.		
8. Test Conducted: Hydrostatic Pressure psig	Pneumatic Nominal Operating Pressur Test Temp. deg.F.	e 🗌 Other 🗌 Exempt 🛛
9. Remarks _ Code CasesNO	NE	·
- · · · · · · · · · · · · · · · · · · ·	(Applicable Manufacturers Data Rec	ords to be attached)
We certify that the statements rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIAN made in the report are correct and this repr	CE air or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>		Expiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u>		
Signed Jults 1 Sut	TECH SPEC II Date 4/13	,20 <u>09</u>
Owner of Owner's Desig		
I, the undersigned, holding a valid con	CERTIFICATE OF INSERVICE INSI umission issued by the National Board of B	PECTION oiler and Pressure Vessel Inspectors and the
I, the undersigned, holding a valid com State or Province of <u>5</u> <u>c</u> described in this Owners Report durin belief, the Owner has performed exam the requirements of the ASME Code, S By signing this certificate neither the I examinations and corrective measure of be liable in any manner for any person inspection.	CERTIFICATE OF INSERVICE INSI numission issued by the National Board of B and employed by <u>HSB I AND I Company</u> g the period <u>$5.2.9-09$</u> to <u>$5-2.3-09$ inations and taken corrective measures desc Section XI. Inspector nor his employer makes any warra lescribed in this Owners Report. Furtherma al injury or property damage or a loss of ar</u>	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the componer and state that to the best of my knowledge as cribed in this Owner's Report in accordance wit nty, expressed or implied, concerning the pre, neither the Inspector nor his employer shall y kind arising from or connected with this
I, the undersigned, holding a valid com State or Province of <u>5 C</u> described in this Owners Report durin belief, the Owner has performed exam the requirements of the ASME Code, S By signing this certificate neither the I examinations and corrective measure of be liable in any manner for any person inspection.	CERTIFICATE OF INSERVICE INSI nmission issued by the National Board of B and employed by <u>HSB I AND I Company</u> og the period $5.22-09$ to $5-22-09$ inations and taken corrective measures desc Section XI. Inspector nor his employer makes any warran described in this Owners Report. Furthermod al injury or property damage or a loss of ar	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the componer and state that to the best of my knowledge a tribed in this Owner's Report in accordance wit nty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall y kind arising from or connected with this
I, the undersigned, holding a valid com State or Province of $\underline{5}$ $\underline{c}_{}$ described in this Owners Report durin belief, the Owner has performed exam the requirements of the ASME Code, S By signing this certificate neither the H examinations and corrective measure of be liable in any manner for any person inspection.	CERTIFICATE OF INSERVICE INSI numission issued by the National Board of B and employed by <u>HSB I AND I Company</u> g the period $5 \cdot 2 \cdot 2 \cdot - 69$ to $5 - 2 \cdot 3 - 69$ inations and taken corrective measures desc Section XI. Inspector nor his employer makes any warra lescribed in this Owners Report. Furtherma al injury or property damage or a loss of ar Commissions <u>5 - 2 - 2</u>	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the componer and state that to the best of my knowledge as tribed in this Owner's Report in accordance with nty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall y kind arising from or connected with this
I, the undersigned, holding a valid com State or Province of $\underline{5 \ c}$ described in this Owners Report durin belief, the Owner has performed exam the requirements of the ASME Code, S By signing this certificate neither the I examinations and corrective measure of be liable in any manner for any person inspection. Date $5-2 \ c_{20} \ 9$	CERTIFICATE OF INSERVICE INSI numission issued by the National Board of B and employed by <u>HSB I AND I Company</u> og the period $5.22-09$ to $5-22-09$ inations and taken corrective measures desc Section XI. Inspector nor his employer makes any warran described in this Owners Report. Furthermod al injury or property damage or a loss of ar	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the componen and state that to the best of my knowledge as cribed in this Owner's Report in accordance with nty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall y kind arising from or connected with this
I, the undersigned, holding a valid com State or Province of $\underline{5 \text{ c}}$ described in this Owners Report durin belief, the Owner has performed exam the requirements of the ASME Code, S By signing this certificate neither the I examinations and corrective measure of be liable in any manner for any person inspection. Date 5-2 0, 20_09	CERTIFICATE OF INSERVICE INSE and employed by <u>HSB I AND I Company</u> og the period $5.22-09$ to $5-22-09$ inations and taken corrective measures dese Section XI. Inspector nor his employer makes any warran described in this Owners Report. Furthermo al injury or property damage or a loss of ar	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the componen and state that to the best of my knowledge as cribed in this Owner's Report in accordance with mty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall y kind arising from or connected with this
I, the undersigned, holding a valid com State or Province of $\underline{5 \text{ c}}$ described in this Owners Report durin belief, the Owner has performed exam the requirements of the ASME Code, S By signing this certificate neither the I examinations and corrective measure of be liable in any manner for any person inspection. Date 5-2 0, 20_09	CERTIFICATE OF INSERVICE INSE and employed by HSB I AND I Company og the period $5.22-09$ to $5-22-09$ inations and taken corrective measures desc Section XI. Inspector nor his employer makes any warran described in this Owners Report. Furthermo al injury or property damage or a loss of ar	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the component and state that to the best of my knowledge as cribed in this Owner's Report in accordance with mty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall y kind arising from or connected with this

Section E Exhibit A ASME Section XI Manual FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI 1a Date 2/26/08 1. Owner DUKE POWER COMPANY Sheet 1 of 1 Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006 $\boxtimes 2$ 3 Shared (specify Units) 2. Plant CATAWBA NUCLEAR STATION 2a Unit \Box_1 Address 4800 CONCORD RD, YORK, S.C. 29745 3. Work Performed By Duke Power Company 3a Work Order # 1709840-01 Address 526 S. Church St. Charlotte, N.C. 28201-1006 3b NSM or MN # NA Type Code Symbol Stamp N/A Authorization No. N/A 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 5 Column 2 Column Column Column 1 Column 3 Column Column 7 8 6 4 NB Manufacturer Other Identification (Size) Corrected, ASME Name of Name of Year Removed or Code Component Manufacturer Serial Number Built Stamped Installed Number (yes or no) NA Bonnet Bolt NA Hex Bolt - SA564 for valve 2NV-472 NA Installed Α NA No В ... -С D _ -E F -

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of list information in items 1 through 6 on this rep recorded at the top of this form.	s, sketches, or drawings may be used, protocols included on each sheet, and (3) eac	rovided (1) size is 81/2in. x 11 in. (2) h sheet is numbered and the number of sheets is
7. Description of Work Replace 2NV-472	Bonnet Bolt_	
8. Test Conducted: Hydrostatic Pneu Pressure psig	matic Nominal Operating Pressure Test Temp. deg.F.	Other Exempt
9. Remarks _ Code CasesNONE_	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	(Applicable Manufacturers Data Reco	ords to be attached)
	CERTIFICATE OF COMPLIANCE	CE
We certify that the statements mad rules of the ASME Code, Section XI.	le in the report are correct and this <u>repai</u>	<u>r or replacement</u> conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	E	xpiration Date <u>N/A</u>
Certificate of Authorization No N/A		
Signed all St	TECH SPEC II Date 2/20	,20 0 ¥
	, iue	· · · ·
СЕ	RTIFICATE OF INSERVICE INSPI	ECTION
I, the undersigned, holding a valid commiss	sion issued by the National Board of Bo	iler and Pressure Vessel Inspectors and the
State or Province of <u>NC</u> and described in this Owners Report during the belief, the Owner has performed examination the requirements of the ASME Code, Section	employed by <u>HSB I AND I Company</u> e period <u>2-5-08</u> to <u>2-26-06</u> ons and taken corrective measures descr on XI.	of Connecticut have inspected the components and state that to the best of my knowledge and ribed in this Owner's Report in accordance with
By signing this certificate neither the Inspe examinations and corrective measure descr	ctor nor his employer makes any warran ibed in this Owners Report. Furthermo	ity, expressed or implied, concerning the re, neither the Inspector nor his employer shall
inspection.	Jury or property damage or a loss of any	Kind arising from or connected with this
Robert molil	Commissions NC	ATE INA
Inspector's Signature	· · · ·	

Date 2-26_,20_08_

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.0	Owner <u>DUKE POWE</u>	<u>R COMPANY</u>		0.0001	Ia Date 2/26/08	. 2	Sheet 1 of 1	
~ 1	Address <u>526 S. CHUR</u>	CH SIREEI. C	<u>CHARLOITE N</u>	. <u>C. 28201-</u>		• • •	1/ 10 -	
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		$2a \text{ Unit } 1 \times 2$	$3 \square Sh$	ared (specify U	nits)
Address 4800 CONCORD RD. YORK, S.C. 29745								
3.	Work Performed By	Duke Power C	ompany		3a Work Order # 1709841-01			
	Address <u>526 S. Chu</u>	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>				
	Type Code Symbol	Stamp <u>N/A_</u> Aut	horization No. <u>N</u>	<u>I/A</u>	3b NSM or MN # NA			
	Expiration Date <u>N/</u>	<u>A</u>						
4	Identification of Sys	stem			Class B			
N١	V CNEMICAL VOL	UME CONTRO	DL SYSTEM					
5. ((a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	nda, Code Cases			
((b) Applicable Edition	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Con	mponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
		· · ·		4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
			Number				Installed	(ves or no)
A	Bonnet Bolt	NA	NA	NA	Hex Bolt - SA564 for valve 2NV-471	NA	Installed	No
B							-	-
_			· · ·	-				
C								-
-	•	•						
D							-	-
_								
E	<u></u>	·····					-	-
F	······································						-	-

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lists information in items 1 through 6 on this rep recorded at the top of this form.	s, sketches, or drawings may be used, ports included on each sheet, and (3) ea	provided (1) size is 81/2in. x 11 in. (2) ch sheet is numbered and the number of sheets is
7. Description of Work Replace 2NV-471	Bonnet Bolt_	
8. Test Conducted: Hydrostatic Pneu Pressure psig	matic Nominal Operating Pressure Test Temp. deg.F.	• Other Exempt
9. Remarks _ Code CasesNONE_		
	(Applicable Manufacturers Data Rec	ords to be attached)
We certify that the statements mad rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIAN le in the report are correct and this <u>repa</u>	CE air or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	Ι	Expiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u>		
Signed Owner or Owner's Designee, T	TECH SPEC II Date 2/20	,20_ <i>0¥</i>
· · · · · · · · · · · · · · · · · · ·		
CE	RTIFICATE OF INSERVICE INSP	PECTION

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

State or Province of \underline{NC} and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{2 \cdot 5 \cdot 08}$ to $\underline{2 \cdot 24 \cdot 68}$ 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 NC 97B Inspector's Signature Date 2-26 ,20 08

AS	ME Section XI Manual FORN	1 NIS-2 OWNE	CR'S REPORT As Require	FOR REP.	AIRS OR REPLACEMENTS ovisions Of The ASME Code Section XI	S	Section E Exhibi	: A
1.	Owner <u>DUKE POWE</u>	R COMPANY	HARLOTTEN	C 28201-	1a Date 2/26/08	Ś	Sheet 1 of 1	
2.	Plant CATAWBA NU Address 4800 CONCC	JCLEAR STAT	ION ., S.C. 29745		2a Unit 🗌 1 🔀 2]3 🗌 Sh	ared (specify U	Jnits])
3.	Work Performed By	Duke Power C	ompany		3a Work Order # 1709855-01			•
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>	-			
	Type Code Symbol	Stamp <u>N/A</u> Aut	horization No. <u>N</u>	I/A	3b NSM or MN # NA		•	
	Expiration Date N/	<u>A</u>						
4	Identification of Sys	stem			Class B		-	
N	V CNEMICAL VOL	UME CONTRO	DL SYSTEM					
5.	(a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	nda, Code Cases			
	(b) Applicable Edition	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Con	mponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial Number	Number		Built	Removed or Installed	Code Stamped (yes or no)
A	Bonnet Bolt	NA	NA	NA	Hex Bolt - SA564 for valve 2NV-170	NA	Installed	No
В							-	-
С							-	-
D					· · · · · · · · · · · · · · · · · · ·		-	-
Е							-	-
F							-	-

ASME Section XI Manual Form NIS-2 (Back) Section E Exibit A
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 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 CasesNONE
(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
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 \underline{NC} and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{2 \cdot 6 \cdot 08}$ to $\underline{2 \cdot 76 \cdot 08}$ 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.

Inspector's Signature

Date 2-26_,20_08___

Commissions Ne978 TNA
	ME Section XI Manual FORI	M NIS-2 OWNE	R'S REPORT As Require	FOR REPA	AIRS OR REPLACEMENTS visions Of The ASME Code Section XI	S	ection E Exhibit	A .
1.0	owner <u>DUKE ENER</u>	<u>GY</u> RCH STREET C	HARLOTTE N	C 28201-1	la Date 4/23/09	S	Sheet 1 of 1	
2.1	lant CATAWBA N	UCLEAR STATI	ON		2a Unit □ 1 🖾2 Γ	∃ 3 □ Sh	ared (specify U	Inits)
	Address 4800 CONCO	ORD RD. YORK	, S.C. 29745				(<i>spinily</i> c	/ []
3.	Work Performed B	y Duke Energy			3a Work Order # 1731351-11			
	Address 526 S. Chu	urch St. Charlotte	, N.C. 28201-10	006	•			
	Type Code Symbol	Stamp <u>N/A</u> Auth	norization No. N	[<u>/A</u>	3b NSM or MN # CD201139			
	Expiration Date N	<u>/A</u>						
4	dentification of Sy	stem NI SAFET	Y INJECTION	SYSTEM	Class B			
5. ((a) Applicable Cons	struction Code III	1974 Edition,	S'75 Adden	ida, Code Cases			
. 4	(b) Applicable Editi	ion of Section XI	Utilized for Rep	pairs or Rep	blacements 1998 Addenda 2000		·	
<u>6.</u>	Identification of Co	omponents Repair	red or Replacem	ent Compo	nents			······································
	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial Number	Number		Built	Removed or Installed	Code Stamped (yes or no)
A	Valve	Westinghous	18000GM84	W/05/07	Valve 2NI185A	1977	Removed	Yes
		e	F03/100		· · ·			
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								

Revision 6

<u>j. e. d. e.</u>

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of 1 information in items 1 through 6 on this r recorded at the top of this form.	lists, sketches, or drawings may be used, provide reports included on each sheet, and (3) each sheet	d (1) size is 81/2in. x 11 in. (2) It is numbered and the number of sheets is
7. Description of Work Replace Valve 2	N1185A	
8. Test Conducted: Hydrostatic Pn Pressure 281 psig	eumatic D Nominal Operating Pressure X Test Temp. 109 deg.F.	Other Exempt
9. Remarks _ Code CasesNONE atmosphere	E_Weld 2NI28-10 cannot be pressure test due to	this side of the valve is open to
-	(Applicable Manufacturers Data Records to	be attached)
<u>.</u>		-
We certify that the statements m rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIANCE ade in the report are correct and this repair or re	placement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	Expirat	ion Date <u>N/A</u>
Certificate of Authorization No. N/A		
Signed Owner or Owner's Designee	TECH SPEC II Date <u>5/14</u> ,2	009

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 $\underline{\varsigma c}$ and employed by <u>HSB I AND I Company of Connecticat</u> have inspected the components described in this Owners Report during the period $\underline{2-9-09}$ to $\underline{7-9-09}$ 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.

H.t. Inspector's Signature

Commissions <u>SC 233 ZIN A</u>

Date 7-9_,20_05 ___

E

F

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

As Required By The Provisions Of The ASME Code Section XI

1		177						
1. Owner DUKE ENERGY				la Date 4/21/09	2	sheet 1 of 1		
2	Address <u>526 S. CHUR</u>	CH SIKEEL. C	<u>CHARLOITE N</u>	<u>.C. 28201-</u>	$\frac{1006}{1000}$		1 (
2.	Plant CATAWBA INC	DELEAK STAL			$2a \text{ Unit } \square \square \square \square \square \square$		ared (specify L	nits[])
2	Address 4800 COINCO	KD KD. YOKK	., S.C. 29745		20 Work Ordon # 17720464			
э.	Address 526 S Chu	Duke Ellergy	N.C. 28201-10	106	5a work Order # 1775940-0)2		
	Type Code Symbol	Stamp N/A Aut	horization No. N	<u>1/A</u>	3b NSM or MN #			
	Expiration Date N/	Stamp <u>1977</u> . Aug A			50 TASIVI OF IVITA π			
4	Identification of Sys	<u>τ</u> tem CΔ ΔΙΙΧΙΙ	LARY FEFDW	ATER SV	STEM Class B			
5	(a) Applicable Const	ruction Code III	1974 Edition	S'75 Adden	ida Code Cases			
5.	(b) Applicable Editic	on of Section XI	Utilized for Rea	nairs or Rer	blacements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ient Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
		00101111		4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	_		Number				Installed	(yes or no)
Α	Valve	Kerotest	AH P2-8	NA	Valve tag 2CA-189	1977	Removed	Yes
В	Valve	Kerotest	NU4-2	11710	Valve tag 2CA-189	1976	Installed	Yes
	· · ·							
С	Pipe/Fitting	Duke Energy	C-2CA	159	2CA System Piping	1985	Installed	Yés
			· · ·					·
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Revision 6

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Section E Exhibit A

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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lists, sk information in items 1 through 6 on this reports recorded at the top of this form.	etches, or drawings may be used, j included on each sheet, and (3) ea	provided (1) size is 81/2in. x 11 in. (2) ch sheet is numbered and the number of sheets is
7. Description of Work Replace Valve 2CA189)	
8. Test Conducted: Hydrostatic Pneumati Pressure 1074 psig Te	c Nominal Operating Pressure st Temp. 335 deg.F.	e 🔀 Other 🗌 Exempt 🔲
9. Remarks _ Code CasesNONE_		
(A	pplicable Manufacturers Data Rec	ords to be attached)
	FRTIFICATE OF COMPLIAN	
We certify that the statements made in rules of the ASME Code, Section XI.	the report are correct and this <u>repa</u>	air or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>]	Expiration Date <u>N/A</u>
Certificate of Authorization No N/A		
Signed Signed Signed Signed Title	TECH SPEC II Date 4/21	,20 <u><i>0 S</i></u>
	· · ·	
· · · · · · · · · · · · · · · · · · ·		
CERTI	FICATE OF INSERVICE INSP	ECTION
I, the undersigned, holding a valid commission	issued by the National Board of B	oiler and Pressure Vessel Inspectors and the
State or Province of and employed and	oyed by <u>HSB I AND I Company</u> iod <u>9-1-09</u> to <u>9-22.099</u> and taken corrective measures desc I. nor his employer makes any warra in this Owners Report. Furthermo or property damage or a loss of an	of <u>Connecticut</u> have inspected the components and state that to the best of my knowledge and cribed in this Owner's Report in accordance with nty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall y kind arising from or connected with this
Hermith about 19 Inspector's Signature	Commissions <u>5 C 2</u>	JJ ENA
Date <u>4-22</u> ,20 <u>09</u>		

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.	Owner <u>DUKE ENERC</u>	<u>3Y</u>			1a Date 5/11/09	S	Sheet 1 of 1	
	Address <u>526 S. CHUR</u>	CH STREET. C	CHARLOTTE N	. <u>C. 28201-</u>	1006			
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🗌 1 🔀 2	3 Sh	ared (specify L	Jnits)
	Address 4800 CONCC	RD RD. YORK	, S.C. 29745					/
3.	Work Performed By	Duke Energy			3a Work Order # 1777493	3-02		
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	006				
	Type Code Symbol	Stamp <u>N/A</u> Auth	norization No. <u>N</u>	I/A	3b NSM or MN # NA			
	Expiration Date N/2	<u>A</u>						•
4	Identification of Sys	tem			Class B		· .	
NV	CHEMICAL VOL	UME CONTRO	DL SYSTEM					
5.	(a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	da. Code Cases			
	(b) Applicable Editic	on of Section XI	Utilized for Ren	pairs or Rer	lacements 1998 Addenda 2000			•
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	Component		Number	1 (unite of		Duni	Installed	Stamped
A	Bolting	NA	NA	NA	For valve 2NV-200	NA	Installed	No
	Doning			1.11			Instanda	
R	·····				· · · · · · · · · · · · · · · · · · ·			+
D								
C	<u> </u>				······································			
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			· · · · · · · · · · · · · · · · · · ·		<u></u>			┥────┤
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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of l information in items 1 through 6 on this r recorded at the top of this form.	ists, sketches, or drawings may be used, eports included on each sheet, and (3) ea	provided (1) size is $81/2$ in. x 11 in. (2) ach sheet is numbered and the number of sheets is
7. Description of Work Replace 2NV20	O Cover Bolts_	
8. Test Conducted: Hydrostatic Pn Pressure psig	eumatic Nominal Operating Pressur Test Temp. deg.F.	e 🗌 Other 🗌 Exempt 🖾
9. Remarks _ Code CasesNON	3	·
	(Applicable Manufacturers Data Re	cords to be attached)
We certify that the statements m rules of the ASME Code, Section XI.	ade in the report are correct and this rep	air or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>		Expiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Signed	TECH SPEC II Date 5/11	,20 <u>67</u>
· · · · · · · · · · · · · · · · · · ·		
	CERTIFICATE OF INSERVICE INS	PECTION
I, the undersigned, holding a valid comm	ission issued by the National Board of E	oiler and Pressure Vessel Inspectors and the
State or Province of <u>f</u> an	d employed by <u>HSB I AND I Company</u>	 of Connecticut have inspected the components and state that to the best of my knowledge and
belief, the Owner has performed examination the requirements of the ASME Code, See By signing this certificate neither the Inst	the period $5 - 18 - 09$ to $5 - 18 - 09$ ations and taken corrective measures des ction XI. pector nor his employer makes any warr	cribed in this Owner's Report in accordance with anty, expressed or implied, concerning the
belief, the Owner has performed examinations and corrective measure desible in any manner for any personal inspection.	the period $5 - 18 - 09$ to $5 - 18 - 09$ to ations and taken corrective measures des ction XI. pector nor his employer makes any warr cribed in this Owners Report. Furtherm injury or property damage or a loss of an	cribed in this Owner's Report in accordance with anty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall ny kind arising from or connected with this
belief, the Owner has performed examinations and corrective measure desired be liable in any manner for any personal inspection.	the period $5 - 18 - 09$ to $5 - 18 - 09$ ations and taken corrective measures des etion XI. pector nor his employer makes any warractive distribution of the taken corrective measures des cribed in this Owners Report. Furtherm injury or property damage or a loss of an	cribed in this Owner's Report in accordance with anty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall ny kind arising from or connected with this
belief, the Owner has performed examinations and corrective measure deside be liable in any manner for any personal inspection.	the period <u>5-) 7-09</u> to <u>5-) 7-0</u> ations and taken corrective measures des ction XI. pector nor his employer makes any warra- cribed in this Owners Report. Furtherm injury or property damage or a loss of an Commissions <u>FC 2</u>	cribed in this Owner's Report in accordance with anty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall ny kind arising from or connected with this
belief, the Owner has performed examinations of the ASME Code, See By signing this certificate neither the Instexaminations and corrective measure dest be liable in any manner for any personal inspection.	the period <u>5-) 7-09</u> to <u>5-) 7-0</u> ations and taken corrective measures des option XI. pector nor his employer makes any warra- cribed in this Owners Report. Furtherm injury or property damage or a loss of an Commissions <u>5622</u>	cribed in this Owner's Report in accordance with anty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall ny kind arising from or connected with this 33 TNA

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Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner <u>DUKE ENERGY</u> Address 526 S CHURCH STREET CHARLOTTE N C 28201-1006					1a Date 4/21/09		Sheet 1 of 1		
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🔲 1 🔀 2]3 🗍 Sh	ared (specify U	nits)	
	Address 4800 CONCC	RD RD. YORK	, S.C. 29745		<i>.</i>	¢			
3.	Work Performed By	Duke Energy	۰.		3a Work Order # 1785307-04				
	Address 526 S. Chu	rch St. Charlotte	e <u>, N.C. 28201-1(</u>	006					
	Type Code Symbol	Stamp <u>N/A_</u> Autl	horization No. <u>N</u>	<u>I/A</u>	3b NSM or MN # NA				
	Expiration Date <u>N/</u>	<u>A</u> .					· · ·		
4	Identification of Sys	stem	· · ·		Class B		• • • •		
NV	CHEMICAL VOL	UME CONTRO	DL SYSTEM						
5 .	(a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	ida, Code Cases	· .		•	
-	(b) Applicable Editio	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000				
6.	Identification of Col	mponents Repair	red or Replacem	ent Compo	nents				
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column	
·				4		6		8	
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME	
	Component	Manufacturer	Serial	Number		Built	Removed or	Code	
	,	 	Number					(yes or no)	
A	Disc	Kerotest	33163	NA	Valve tag 2NV-186A	1997	Removed	No	
		ļ				_			
B	Disc	Kerotest	26395-1-1	NA	Valve tag 2NV-186A	NA	Installed	No ·	

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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of l information in items 1 through 6 on this r recorded at the top of this form.	ists, sketches, or drawings may be used, eports included on each sheet, and (3) ea	provided (1) size is $81/2$ in. x 11 in. (2) ach sheet is numbered and the number of sheets is
7. Description of Work Repair Valve 2N	V186A_	
8. Test Conducted: Hydrostatic Pn Pressure psig	eumatic Nominal Operating Pressur Test Temp. deg.F.	e 🗌 Other 🗌 Exempt 🖂
9. Remarks _ Code CasesNONI	E	<u> </u>
	(Applicable Manufacturers Data Red	cords to be attached)
We certify that the statements m	CERTIFICATE OF COMPLIAN ade in the report are correct and this rep	NCE air or replacement conforms to the rules of the
rules of the ASME Code, Section XI.		
Type Code Symbol Stamp <u>N/A</u>		Expiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u>		
Signed	TECH SPEC II Date 4/21	,20 <u>0</u>)
······································	· ·	
······································	CERTIFICATE OF INSERVICE INS	PECTION
I, the undersigned, holding a valid comm	ission issued by the National Board of E	oiler and Pressure Vessel Inspectors and the
State or Province of <u>5</u> <u>c</u> and described in this Owners Report during belief, the Owner has performed examination the requirements of the ASME Code, Sec	d employed by <u>HSB I AND I Company</u> the period $5-19-09$ to $5-19-09$ ations and taken corrective measures des ction XI.	<u>of Connecticut</u> have inspected the components and state that to the best of my knowledge and cribed in this Owner's Report in accordance with
By signing this certificate neither the Inspections and corrective measure des be liable in any manner for any personal inspection.	pector nor his employer makes any warra cribed in this Owners Report. Furtherm injury or property damage or a loss of a	anty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall iy kind arising from or connected with this
Inspector's Signature	Commissions <u>5C 2</u> 3	3 ENA

AS	ME Section XI Manual FORM	1 NIS-2 OWNE	CR'S REPORT As Require	FOR REP.	AIRS OR REPLACEMENTS ovisions Of The ASME Code Section XI		Section E Exhibit	t A
1.0	Owner <u>DUKE ENERC</u> Address 526 S. CHUR	<u>FY</u> CH STREET. C	CHARLOTTE N	I.C. 28201-	1a Date 4/6/09	SI	heet 1 of 1	
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🗌 1 🔀 2] 3 🗌 Sh	ared (specify U	Jnits)
	Address 4800 CONCO	RD RD. YORK	L, S.C. 29745					· · ·
3.	Work Performed By	Duke Energy	•		3a Work Order # 1820456-0	1 .		
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	006				
	Type Code Symbol	Stamp <u>N/A</u> Aut	horization No. <u>N</u>	<u> 1/A</u>	3b NSM or MN # NA	·		
	Expiration Date $N/2$	<u>A</u>			· .	· .		
4	Identification of Sys	tem CF MAIN	FEEDWATER	SYSTEM	Class B			
5.	(a) Applicable Const	ruction Code III	1974 Edition,	S'/5 Adden	ida, Code Cases			
	(b) Applicable Editio	on of Section XI	Utilized for Rej	pairs or Rep	blacements 1998 Addenda 2000			
0.	Identification of Cor	nponents Repair	red or Replacem	lent Compo	nents	Caluma	<u>Ostar 7</u>	Column
	- Column I	Column 2	Column 3	Column	Column 5	6	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
A	Disc	Atwood/ Morrill	NA	NA	Valve 2CF-168	NA	Removed	No
В	Disc	Atwood/ Morrill	Y25	NA	Valve 2CF-168	2006	Installed	No
С							-	-
D							-	-
E							-	-
F							-	-

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A	
NOTE: Supplemental sheets in form of lists information in items 1 through 6 on this rep recorded at the top of this form.	s, sketches, or drawings may be used, orts included on each sheet, and (3) ea	provided (1) size is 81/2in. x 11 in. (2) ach sheet is numbered and the number of s	heets is
7. Description of Work Repair Valve 2CF-	168_		
8. Test Conducted: Hydrostatic Pneu Pressure psig	matic Nominal Operating Pressur Test Temp. deg.F.	re 🗌 Other 🗌 Exempt 🛛	
9. Remarks _ Code CasesNONE_		······	
	(Applicable Manufacturers Data Red	cords to be attached)	
We certify that the statements mad rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIAN e in the report are correct and this rep	NCE air or replacement conforms to the rules of the rules	of the
Type Code Symbol Stamp <u>N/A</u>		Expiration Date <u>N/A</u>	·
Certificate of Authorization No. <u>N/A</u>			ľ
Signed Sutto Owner or Owner's Designee, T	<u>TECH SPEC II</u> Date <u>4/4</u> itle	,20_69_	
CE	RTIFICATE OF INSERVICE INS	PECTION	
I, the undersigned, holding a valid commiss	ion issued by the National Board of F	Boiler and Pressure Vessel Inspectors and t	the

State or Province of $\underline{5c}$ and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{5c}_{-2o}$ to $\underline{5c}_{-2o}$ 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.

Inspector's Signature

Commissions 5 C 233 ZNA

Date <u>5-20</u>,20<u>0</u>9

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

	,							
1. Owner <u>DUKE ENERGY</u>				1a Date 4/6/09	SI	neet 1 of 1		
A	Address <u>526 S. CHUR</u>	<u>CH STREET. C</u>	<u>CHARLOTTE N</u>	. <u>C. 28201-</u>	1006			
2. p	lant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🛄 1 🔀 2	∐ 3 ∐ Sh	ared (specify L	Jnits)
A	Address 4800 CONCO	RD RD. YORK	L, S.C. 29745					
3.	Work Performed By	Duke Energy			3a Work Order # 1820457-0	01 -		
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	006				
	Type Code Symbol	Stamp <u>N/A</u> Autl	horization No. <u>N</u>	I/A	3b NSM or MN # NA			
	Expiration Date <u>N/</u>	<u>A</u>						
4 I	dentification of Sys	tem CF MAIN	FEEDWATER	SYSTEM	Class B			
5. ((a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	ida, Code Cases			
(b) Applicable Editic	on of Section XI	Utilized for Rep	pairs or Rep	blacements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				. 4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	•		Number				Installed	(ves or no)
A	Disc	Atwood/	NA	NA	Valve 2CF-167	NA	Removed	No
	• .	Morrill						
B	Disc	Atwood/	M96	NA	Valve 2CF-167	2006	Installed	No
	•	Morrill			·			
С		~					· •••	-
D							-	-
					· · · · · · · · · · · · · · · · · · ·			
E							-	-
						1		
F								
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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form o information in items 1 through 6 on this recorded at the top of this form.	f lists, sketches, or drawings may be used, p s reports included on each sheet, and (3) eac	rovided (1) size is 81/2in. x 11 in. (2) th sheet is numbered and the number of sheets is
7. Description of Work Repair Valve 2	2CF-167_	
8. Test Conducted: Hydrostatic Pressure psig	Pneumatic Nominal Operating Pressure Test Temp. deg.F.	Other Exempt
9. Remarks Code Cases NO	VE	
	(Applicable Manufacturers Data Reco	ords to be attached)
We certify that the statements	made in the report are correct and this rena	ir or replacement, conforms to the rules of the
rules of the ASME Code Section XI	made in the report are confect and this repair	i of replacement contornis to the rules of the
Type Code Symbol Stamp <u>N/A</u>	. E	xpiration Date <u>N/A</u>
Certificate of Authorization No N/A		
Signed <u>Aults 1 Sttb</u> Owner or Owner's Design	TECH SPEC II Date 4/6	,20 <i>_09</i>
· ·		
``		
		· ·
	CERTIFICATE OF INSERVICE INSP	ECTION
I, the undersigned, holding a valid com	mission issued by the National Board of Bo	viler and Pressure Vessel Inspectors and the
State or Province of <u>f</u> described in this Owners Report durin belief, the Owner has performed exami the requirements of the ASME Code, S By signing this certificate neither the In examinations and corrective measure d be liable in any manner for any personal inspection.	and employed by <u>HSB I AND I Company</u> g the period $5 - 20 - 09$ to $5 - 20 - 09$ inations and taken corrective measures descri- section XI. Inspector nor his employer makes any warran lescribed in this Owners Report. Furthermo- al injury or property damage or a loss of any	of Connecticut have inspected the components and state that to the best of my knowledge and ribed in this Owner's Report in accordance with nty, expressed or implied, concerning the re, neither the Inspector nor his employer shall y kind arising from or connected with this

Kenneth Doublit Inspector's Signature Commissions SC237 END

Date <u>5-20</u>,2009

V

Section E Exhibit A

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	SI	heet 1 of 1		
1	Address 526 S. CHUR	CH STREET. C	CHARLOTTE N	. <u>C. 28201-</u>	1006			
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🔲 1 🛛 🖾 🗌]3 🔲 Sh	ared (specify U	nits)
	Address 4800 CONCO	RD RD. YORK	, S.C. 29745					
3.	Work Performed By	Duke Energy			3a Work Order # 1820876-01			
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>				
	Type Code Symbol	Stamp <u>N/A</u> Autl	horization No. <u>N</u>	<u>I/A</u>	3b NSM or MN # NA			
	Expiration Date N/2	<u>A</u> .						
4	Identification of Sys	tem CF MAIN	FEEDWATER	SYSTEM	Class B			
5.	(a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	ida, Code Cases	·		
((b) Applicable Editic	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	•		Number				Installed	(yes or no)
Α	Disc	NA	M93	NA	Valve 2CF-166	2000	Removed	No
i								
В	Disc	Atwood/Mor	Y-24	NA	Valve 2CF-166	2006	Installed	No
		rill						
С				· ·			-	-
D		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		-	-
			· · ·		· · · · · · · · · · · · · · · · · · ·		·	
E							-	-
F							-	-

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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form information in items 1 through 6 on the recorded at the top of this form.	of lists, sketches, or drawings may be used, prov is reports included on each sheet, and (3) each s	ided (1) size is 81/2in. x 11 in. (2) heet is numbered and the number of sheets is
7. Description of Work Repair Valve	2CF-166_	
8. Test Conducted: Hydrostatic Pressure psig	Pneumatic Nominal Operating Pressure Test Temp. deg.F.] Other 🗌 Exempt 🛛
9. Remarks _ Code CasesNC	NE	· · · · · · · · · · · · · · · · · · ·
-		
	(Applicable Manufacturers Data Records	s to be attached)
We certify that the statement rules of the ASME Code, Section XI. Type Code Symbol Stamp <u>N/A</u> Certificate of Authorization No. <u>N/A</u> Signed $_{Owner or Owner's Desired}$	EXPIRICATE OF COMPLIANCE s made in the report are correct and this <u>repair o</u> Expi <u>TECH SPEC II</u> Date <u>4/6</u>	<u>r replacement</u> conforms to the rules of the ration Date <u>N/A</u>
I, the undersigned, holding a valid co	CERTIFICATE OF INSERVICE INSPEC mmission issued by the National Board of Boile	TION r and Pressure Vessel Inspectors and the
State or Province of <u>fc</u> described in this Owners Report duri belief, the Owner has performed exan the requirements of the ASME Code,	and employed by <u>HSB I AND I Company of</u> ng the period $5-13-06$ to $5-13-06$ aninations and taken corrective measures describe Section XI.	<u>Connecticut</u> have inspected the components and state that to the best of my knowledge and ed in this Owner's Report in accordance with

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.

Inspector's Signature K

Commissions SC233 INN

Inspector 5 5.5.

Date 5 -17 __,20_06

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.0	Owner DUKE ENERC	<u> <u>FY</u></u>			1a Date 4/6/09	SI	neet 1 of 1	
ŀ	Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006				<u>1006</u>			
2. 1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🔲 1 🛛 🛛 🗌]3 🔲 Sh	ared (specify U	Inits)
1	Address 4800 CONCO	RD RD. YORK	, S.C. 29745					
. 3.	Work Performed By	Duke Energy			3a Work Order # 1820877-01			
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>				
	Type Code Symbol	Stamp <u>N/A_</u> Autl	horization No. <u>N</u>	<u>I/A</u>	3b NSM or MN # NA			
	Expiration Date <u>N/</u>	<u>A</u>						
4]	Identification of Sys	tem CF MAIN	FEEDWATER	SYSTEM	Class B		•	
5. ((a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	nda, Code Cases			
((b) Applicable Editic	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	onents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
			Number				Installed	(yes or no)
A	Disc	Atwood/	M94	NA	Valve 2CF-169	2000	Removed	No
		Morrill						
B	Disc	Atwood/	Y23	NA	Valve 2CF-169	2006	Installed	No
		Morrill						
C						-	-	-
D							-	. -
E							-	- .
F					· · · · · · · · · · · · · · · · · · ·		-	-
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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A					
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 Pneu Pressure psig	matic Nominal Operating Pressure Test Temp. deg.F.	e 🗌 Other 🗌 Exempt 🛛					
9. Remarks _ Code CasesNONE_	· · · · · · · · · · · · · · · · · · ·						
	(Applicable Manufacturers Data Rec	cords 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 Juitted Jeffetting Owner or Owner's Designee, Title Date							
CERTIFICATE OF INSERVICE INSPECTION							
I, the undersigned, holding a valid commiss	ion issued by the National Board of B	oiler and Pressure Vessel Inspectors and the					
State or Province of $\underline{5C}$ and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{5 \cdot 20 \cdot 09}$ to $\underline{5 \cdot 20 \cdot 09}$ 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.							

Inspector's Signature

Commissions <u>5C 233 TNA</u>

Date <u>5-20</u>,20<u>09</u>

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.	Owner DUKE ENERC	<u>BY</u>			1a Date 4/29/09	5	Sheet 1 of 1	
1	Address 526 S. CHUR	CH STREET. C	<u>CHARLOTTE N</u>	1006				
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🔲 1 🛛 🖾 2]3 🔲 Sh	ared (specify U	nits)
	Address 4800 CONCO	RD RD. YORK	, S.C. 29745					•
3.	Work Performed By	Duke Energy			3a. Work Order # 1822507-02			
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>				
	Type Code Symbol	Stamp <u>N/A</u> Autl	norization No. N	[/ <u>A</u>	3b NSM or MN # NA			
	Expiration Date N/2	A .			•			
4	Identification of Sys	tem	1		Class B			
NV	V CHEMICAL VOL	UME CONTRO	DL SYSTEM					
5.	(a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	da, Code Cases			
ł	(b) Applicable Edition	on of Section XI	Utilized for Rep	oairs or Rep	blacements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents	· .		
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
<u> </u>	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
			Number				Installed	(ves or no)
A	Valve	Dresser	TJ99387	1963	Valve tag 2NV205	1994	Removed	Yes
R	Valve	Dresser	TG80195	1899	Valve tag 2NV205	1986	Installed	Yes
			1000190					}
C							-	- I
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D								-
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E							-	-
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F						1	-	-
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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A						
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 Pressure 17.5 psig Test Test	Nominal Operating Pressure X np. 86.9 deg.F.	Other Exempt						
9. Remarks _ Code CasesNONE								
(Applica	able Manufacturers Data Records to	o be attached)						
Стрт	IFICATE OF COMPLIANCE							
We certify that the statements made in the re rules of the ASME Code, Section XI.	port are correct and this <u>repair or r</u>	replacement conforms to the rules of the						
Type Code Symbol Stamp <u>N/A</u>	Expira	tion Date <u>N/A</u>						
Certificate of Authorization No. <u>N/A</u>								
Signed <u>all Sth</u> <u>TECH</u> Owner or Owner's Designee, Title	<u>SPEC II</u> Date <u>4/2</u> 9,	20 <u>09</u>						
CERTIFICA	ATE OF INSERVICE INSPECT	ION						
I, the undersigned, holding a valid commission issued	l by the National Board of Boiler a	and Pressure Vessel Inspectors and the						
State or Province of $\underline{\int \underline{C}}$ and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{\psi}_{\underline{\gamma},\underline{\gamma},\underline{\gamma},\underline{\gamma}}$ to $\underline{4}\underline{-2}\underline{\rho}\underline{-\rho}\underline{q}$ 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.								
Kerneth Apertlut Inspector's Signature	_Commissions <u>SC 233 2</u>	NA						
Date <u>4-30</u> ,20 <u>09</u>								

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Section E Exhibit A

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	<u> </u>	Sheet 1 of 1		
~	Address <u>526 S. CHUR</u>	CH STREET. C	<u>CHARLOTTE N</u>	<u>.C. 28201-</u>			1/ 10 1	
2. f	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 📋 l 🔀 2]3 ∐ Sh	ared (specify U	nits)
	Address 4800 CONCO	RD RD. YORK	., S.C. 29745					
3.	Work Performed By	Duke Energy			3a Work Order # 1822508-03			
	Address <u>526 S. Chu</u>	rch St. Charlotte	<u>, N.C. 28201-10</u>	<u>)06</u>				
	Type Code Symbol	Stamp <u>N/A</u> Auth	norization No. <u>N</u>	<u>l/A</u>	3b NSM or MN # NA			
	Expiration Date <u>N/A</u>	A						
4]	Identification of Sys	tem			Class B			
NV	/ CHEMICAL VOL	UME CONTRO	OL SYSTEM		• •			
5. ((a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	ida, Code Cases			
((b) Applicable Edition	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Cor	mponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
			Number				Instancu	(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							-	-
			·		· ·			
Е							- ·	-

Revision 6

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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lists, sk information in items 1 through 6 on this reports recorded at the top of this form.	cetches, or drawings may be used, pr included on each sheet, and (3) eac	rovided (1) size is 81/2in. x 11 in. (2) h sheet is numbered and the number of sheets is
7. Description of Work Replace Valve 2NV22	2	
8. Test Conducted: Hydrostatic Pneumat Pressure 20.9 psig Te	ic Nominal Operating Pressure est Temp. 65.3 deg.F.	Other Exempt
9. Remarks _ Code CasesNONE_		·
A)	Applicable Manufacturers Data Reco	ords to be attached)
r		
We certify that the statements made in rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIANC the report are correct and this <u>repai</u>	CE ir or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	E	xpiration Date <u>N/A</u>
Certificate of Authorization No. N/A	. · ·	
Signed <u>auto Sta</u> Owner or Owner's Designee, Title	<u>TECH SPEC II</u> Date 4/29	,20 <u>05</u>
		· · · · · · · · · · · · · · · · · · ·
CERT	IFICATE OF INSERVICE INSPI	ECTION
I, the undersigned, holding a valid commission	issued by the National Board of Bo	iler and Pressure Vessel Inspectors and the
State or Province of $\underline{}$ and empty described in this Owners Report during the perbelief, the Owner has performed examinations the requirements of the ASME Code, Section λ By signing this certificate neither the Inspector examinations and corrective measure described be liable in any manner for any personal injury inspection.	loyed by <u>HSB I AND I Company</u> riod <u>4-30-09</u> to <u>4-30-09</u> and taken corrective measures descr G. nor his employer makes any warran i in this Owners Report. Furthermoi or property damage or a loss of any	of Connecticut have inspected the components and state that to the best of my knowledge and ribed in this Owner's Report in accordance with aty, expressed or implied, concerning the re, neither the Inspector nor his employer shall whind arising from or connected with this
Resent about that Inspector's Signature	Commissions <u>Sc 233</u>	TNA

Date <u>4-30</u>,20<u>09</u>

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Section E Exhibit A

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	S	Sheet 1 of 1			
Address 526 S. CHURCH STREET	CHARLOTTE N	I.C. 28201-	1006			
2. Plant CATAWBA NUCLEAR STA	TION		2a Unit 🗌 1 🔀 2]3 🗌 Sh	ared (specify L	Jnits)
Address 4800 CONCORD RD. YOF	K, S.C. 29745					<i>,</i>
3. Work Performed By Duke Energy			3a Work Order # 1823041-01			
Address 526 S. Church St. Charlo	te, N.C. 28201-10	006				
Type Code Symbol Stamp N/A A	thorization No. N	J∕A	3b NSM or MN # NA			
Expiration Date N/A	_					
4 Identification of System			Class B			
NV CHEMICAL VOLUME CONTI	OL SYSTEM					
5. (a) Applicable Construction Code	II 1974 Edition.	S'75 Adden	nda. Code Cases			
(b) Applicable Edition of Section 2	I Utilized for Re	pairs or Rer	placements 1998 Addenda 2000			
6. Identification of Components Rep	aired or Replacem	ient Compo	nents			
Column 1 Column 2	Column 3	Column	Column 5	Column	Column 7	Column
		4		6		8
Name of Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
Component Manufacture	r Serial	Number		Built	Removed or	Code
	Number				Installed	Stamped (yes or no)
A Bolting NA	NA	Na	For 2NV Pump 2A	NA	Installed	No
		1100				
B			<u>. </u>	-	-	-
С				<u> </u>	-	-
				[
D					-	-
E	+				-	-
	· · ·					

ASME Section XI Manual Form NIS-2 (Back) Section E Exibit A								
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 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 CasesNONE								
(Applicable Manufacturers Data Records to be attached)								
CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this <u>repair or replacement</u> 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. <u>N/A</u>								
Signed Auto L. Stranger TECH SPEC II Date 5/11, 2005 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 $\underline{\varsigma}_{\underline{c}}$ and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{\varsigma}_{\underline{c}} = \underline{\varsigma}_{\underline{c}}$ to $\underline{\varsigma}_{\underline{c}} = \underline{\varsigma}_{\underline{c}}$ 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.

Inspector's Signature

Commissions <u>SC233</u>

Date 5-18_,20_09

Section E Exhibit A

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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 4/11/09	Sheet 1 of 1
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006 2. Plant CATAWBA NUCLEAR STATION	2a Unit 🗌 1 🔀 🗌 3	Shared (specify Units)
Address 4800 CONCORD RD. YORK, S.C. 29745 3. Work Performed By <u>Duke Energy</u>	3a Work Order # 1829884-02	
Address <u>526 S. Church St. Charlotte, N.C. 28201-1006</u> Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>	3b NSM or MN # NA	•
Expiration Date <u>N/A</u> 4 Identification of System	Class B	
ND RESIDUAL HEAT REMOVAL SYSTEM		
5. (a) Applicable Construction Code III 1974 Edition, 5 75 Addenda, Cod	t 1000 A 11 - 1- 2000	

(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	Flowserve	NA	NA	Original Disc in valve 2ND-058B	NA	Removed	No
В	Disc	Flowserve	NA	NA	Disc UTC #01921981 for valve 2ND- 058B	NA	Installed	No
С							-	-
D							-	-
E				-				-
F							-	-

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lists, sketch information in items 1 through 6 on this reports inclurecorded at the top of this form.	es, or drawings may be used, provid uded on each sheet, and (3) each she	led (1) size is 81/2in. x 11 in. (2) set is numbered and the number of sheets is
7. Description of Work Repair Valve 2ND-058D_		· · · · ·
8. Test Conducted: Hydrostatic Pneumatic Pressure psig Test Te	Nominal Operating Pressure emp. deg.F.	Other 🗌 Exempt 🛛
9. Remarks _ Code CasesNONE		
(Applie	cable Manufacturers Data Records t	o be attached)
CER.	FIFICATE OF COMPLIANCE	
rules of the ASME Code, Section XI.	eport are correct and uns repair of i	<u>eplacement</u> conforms to the fulles of the
Type Code Symbol Stamp <u>N/A</u>	Expira	tion Date <u>N/A</u>
Certificate of Authorization No. N/A		
Signed	<u>I SPEC II</u> Date <u>4/13</u> ,	20_29_
• <u>•••••••••••••••••••••</u> ••••••••••••••		
CERTIFIC	ATE OF INSERVICE INSPECT	ION
I, the undersigned, holding a valid commission issue	d by the National Board of Boiler a	and Pressure Vessel Inspectors and the
State or Province of 5 C and employed described in this Owners Report during the period belief, the Owner has performed examinations and the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor lexaminations and corrective measure described in the liable in any manner for any personal injury or prinspection.	by HSB I AND I Company of C 5-2-29 to $5-22-29$ and aken corrective measures described his employer makes any warranty, end is Owners Report. Furthermore, ne coperty damage or a loss of any kinc	<u>onnecticut</u> have inspected the components d state that to the best of my knowledge and in this Owner's Report in accordance with xpressed or implied, concerning the either the Inspector nor his employer shall I arising from or connected with this
Benth about t	Commissions S_C_2_33_	INA

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Date 5. 20,2009

Revision 6

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

As Required By The Provisions Of The ASME Code Section XI

1.	Owner DUKE ENERC	<u>3Y</u>			1a Date 4/29/09	S	Sheet 1 of 1	
	Address 526 S. CHUR	CH STREET. C	CHARLOTTE N	I.C. 28201-	1006			
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🔲 1 🛛 🔀 🛛 🗍	🗌 3 🔲 Sh	ared (specify L	Inits)
	Address 4800 CONCO	RD RD. YORK	L, S.C. 29745	•				
3.	Work Performed By	Duke Energy			3a Work Order # 1858617-0	3		
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>				
	Type Code Symbol	Stamp N/A Aut	horization No. <u>N</u>	I∕A	3b NSM or MN # NA			
	Expiration Date N/2	A						
4	Identification of Sys	tem		•	Class B			
NI	O RESIDUAL HEAT	REMOVAL S	YSTEM					
5.	(a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	nda, Code Cases			
t	(b) Applicable Edition	on of Section XI	Utilized for Rep	oairs or Rep	blacements 1998 Addenda 2000			.
6.	Identification of Cor	nponents Repair	red or Replacem	ient Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
· ·	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	· ·		Number				Installed	(yes or no)
A	Valve Yoke	Kerotest	NA	NA	For valve 2ND59B	NA	Removed	No
В	Valve Yoke	Kerotest	314446	NA	For valve 2ND59B	NA	Installed	No
-					· ·			
C			·				-	-
Ũ								
D							-	-
F					· · · · · · · · · · · · · · · · · · ·		-	-
F				·····			-	-
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Revision 6

Section E Exhibit A

ASIVIE Section AI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of information in items 1 through 6 on this recorded at the top of this form.	lists, sketches, or drawings may be used, reports included on each sheet, and (3) ea	provided (1) size is 81/2in. x 11 in. (2) the sheet is numbered and the number of sheets is
7. Description of Work Repair Valve 2N	ND59B_	
 Test Conducted: Hydrostatic Pr Pressure 251 psig 	neumatic Nominal Operating Pressur Test Temp. 93 deg.F.	e 🛛 Other 🗌 Exempt 🗍
9. Remarks _ Code CasesNON	E	······
,,, _,, _	(Applicable Manufacturers Data Rec	cords to be attached)
<u></u>	CERTIFICATE OF COMPLIAN	ICE
We certify that the statements n rules of the ASME Code, Section XI.	nade in the report are correct and this <u>rep</u>	air or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>		Expiration Date <u>N/A</u>
Certificate of Authorization No N/A	• •	
Signed aut LSA	TECH SPEC II Date 4/29	<u>و م 2</u> 0_
Signed	TECH SPEC II Date 4/29 e, Title	,20
Signed <u>auto Sta</u> Owner or Owner's Designe	<u>TECH SPEC II</u> Date <u>4/29</u> e, Title CERTIFICATE OF INSERVICE INSE	,20 PECTION
Signed <u>auto L Stat</u> Owner or Owner's Designe I, the undersigned, holding a valid comm	TECH SPEC II Date 4/29 e, Title CERTIFICATE OF INSERVICE INSI	,20 PECTION oiler and Pressure Vessel Inspectors and the
Signed	<u>TECH SPEC II</u> Date $\frac{4}{29}$ e, Title CERTIFICATE OF INSERVICE INSI hission issued by the National Board of B ad employed by <u>HSB I AND I Company</u> the period $\underline{4-30-05}$ to $\underline{4-30-05}$ ations and taken corrective measures desc ction XI. pector nor his employer makes any warra scribed in this Owners Report. Furthermo- injury or property damage or a loss of ar	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the components <u>o</u> and state that to the best of my knowledge and cribed in this Owner's Report in accordance with unty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall by kind arising from or connected with this
Signed Owner or Owner's Designe I, the undersigned, holding a valid comm State or Province of an described in this Owners Report during belief, the Owner has performed examine the requirements of the ASME Code, Se By signing this certificate neither the Ins examinations and corrective measure des be liable in any manner for any personal inspection.	<u>TECH SPEC II</u> Date $\frac{4}{22}$ e, Title CERTIFICATE OF INSERVICE INSI hission issued by the National Board of B ad employed by <u>HSB I AND I Company</u> the period $\frac{4-3-05}{2-3-05}$ to $\frac{4-3-05}{2-3-05}$ ations and taken corrective measures desc ction XI. pector nor his employer makes any warra scribed in this Owners Report. Furtherma- injury or property damage or a loss of ar	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the components and state that to the best of my knowledge and cribed in this Owner's Report in accordance with anty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall by kind arising from or connected with this
Signed <u>Auto Lott</u> Owner or Owner's Designe I, the undersigned, holding a valid comm State or Province of <u>se</u> and described in this Owners Report during belief, the Owner has performed examine the requirements of the ASME Code, Se By signing this certificate neither the Ins examinations and corrective measure des be liable in any manner for any personal inspection. <u>Xeamett</u> Moutat Inspector's Signature	<u>TECH SPEC II</u> Date $\frac{4}{29}$ e, Title CERTIFICATE OF INSERVICE INSI hission issued by the National Board of B ad employed by <u>HSB I AND I Company</u> the period $\frac{4-30-05}{2}$ to $\frac{4-30-05}{2}$ ations and taken corrective measures desc ction XI. pector nor his employer makes any warras scribed in this Owners Report. Furtherma injury or property damage or a loss of ar <u>Commissions <u>fc 2.5</u></u>	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the components <u>o</u> and state that to the best of my knowledge and cribed in this Owner's Report in accordance with anty, expressed or implied, concerning the pre, neither the Inspector nor his employer shall by kind arising from or connected with this
Signed Nowner or Owner's Designed I, the undersigned, holding a valid comm State or Province of <u>se</u> and described in this Owners Report during belief, the Owner has performed examine the requirements of the ASME Code, Se By signing this certificate neither the Inse examinations and corrective measure designed be liable in any manner for any personal inspection. <u>Xemmett</u> <u>Monthal</u> Inspector's Signature Date <u>4-7.5</u> , 20_09	<u>TECH SPEC II</u> Date $\frac{4}{29}$ e, Title CERTIFICATE OF INSERVICE INSI hission issued by the National Board of B ad employed by <u>HSB I AND I Company</u> the period $\frac{4-30-05}{2}$ to $\frac{4-30-05}{2}$ ations and taken corrective measures desc ction XI. pector nor his employer makes any warra scribed in this Owners Report. Furtherma injury or property damage or a loss of ar <u>Commissions <u>fc 2.5</u></u>	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the components <u>and state that to the best of my knowledge and</u> cribed in this Owner's Report in accordance with mty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall by kind arising from or connected with this
Signed Owner or Owner's Designed I, the undersigned, holding a valid comm State or Province of and described in this Owners Report during belief, the Owner has performed examine the requirements of the ASME Code, Se By signing this certificate neither the Ins examinations and corrective measure des be liable in any manner for any personal inspection.	<u>TECH SPEC II</u> Date $\frac{4}{22}$ e, Title CERTIFICATE OF INSERVICE INSE hission issued by the National Board of B ad employed by <u>HSB I AND I Company</u> the period $\frac{4-30-05}{20-05}$ to $\frac{4-30-05}{20-05}$ ations and taken corrective measures desc ction XI. pector nor his employer makes any warras scribed in this Owners Report. Furthermo- injury or property damage or a loss of ar <u>Commissions <u>\$c 2</u>.</u>	PECTION oiler and Pressure Vessel Inspectors and the <u>of Connecticut</u> have inspected the components and state that to the best of my knowledge and cribed in this Owner's Report in accordance with unty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall by kind arising from or connected with this

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Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.0	Owner DUKE ENERC	<u>}Y</u>			1a Date 4/13/09	S	Sheet 1 of 1	
1	Address 526 S. CHUR	CH STREET. C	<u>CHARLOTTE N</u>	.C. 28201-	<u>1006</u>			
2:1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🗌 1 🛛 🛛 🗌	3 🗌 Sh	ared (specify U	nits)
	Address 4800 CONCO	RD RD. YORK	, S.C. 29745					
3.	Work Performed By	Duke Energy			3a Work Order # 1861008-03			
	Address 526 S. Chu	rch St. Charlotte	, N.C. 28201-10	006				
	Type Code Symbol	Stamp <u>N/A_</u> Auth	norization No. <u>N</u>	[<u>/A</u>	3b NSM or MN # NA			
	Expiration Date N/A	<u>A</u>						
4	Identification of Sys	tem			Class B			,
N١	CHEMICAL VOL	UME CONTRO	DL SYSTEM					
5. ((a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	ida, Code Cases			
((b) Applicable Editic	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
			Number		· · ·		Installed	(yes or no)
A	Seal Weld	Duke Energy	C-2NV	170	Body to Bonnet Seal Weld for valve	2009	Installed	Yes
					219 - 79	<u> </u>		
В							· •	-
C	· · · · · · · · · · · · · · · · · · ·		·					-
Ŭ								
D			· · · ·		<u>.</u>		-	-
E							-	-
					· · · · · · · · · · · · · · · · · · ·			
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ASME Section XI Manual	Form NIS	-2 (Back)	Section E	Exibit A
NOTE: Supplemental sheets information in items 1 through recorded at the top of this form	in form of lists, sketches, or drawir 1 6 on this reports included on each n.	igs may be used, p i sheet, and (3) eac	rovided (1) size is ch sheet is number	s 81/2in. x 11 in. (2) red and the number of sheets is
7. Description of Work Repair	ir Valve 2NV-79_			
8. Test Conducted: Hydrostat Pressure psig	ic Pneumatic Nominal C Test Temp.	Operating Pressure deg.F.	Other	Exempt 🛛
9. Remarks _ Code Cases	NONE	· · ·		
	(Applicable Manuf	acturers Data Reco	ords to be attached	i)
	CERTIFICATE	OF COMPLIAN	CE	
We certify that the st rules of the ASME Code, Sect	atements made in the report are co tion XI.	rrect and this repair	ir or replacement	conforms to the rules of the
Type Code Symbol Stamp <u>N</u>	<u>J/A</u>	· E	Expiration Date <u>N</u>	<u>/A</u>
Certificate of Authorization N	o. <u>N/A</u>		,	
Signed Owner or Own	TECH SPEC II	Date <u>4/13</u>	,20 <i>2 9</i>	

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 $\underline{\boldsymbol{\varsigma}}$ and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{\boldsymbol{\beta}}_{-11-\boldsymbol{\varrho}\boldsymbol{q}}$ to $\underline{\boldsymbol{\varsigma}}_{-2\boldsymbol{\varrho},\boldsymbol{\varrho}\boldsymbol{\varrho}}$ 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.

Inspector's Signature

Commissions <u>SC 233 INA</u>

Date 5-20_,2009

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

			· · · ·					
1.	Owner DUKE ENERC	<u>3Y</u>			1a Date 4/13/09	S	Sheet 1 of 1	
	Address <u>526 S. CHUR</u>	CH STREET. C	<u>CHARLOTTE N</u>	<u>I.C. 28201-</u>	1006			
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🛄 1 🔀 2]3 🗌 Sh	ared (specify U	Inits)
	Address 4800 CONCO	RD RD. YORK	L, S.C. 29745					
3.	Work Performed By	Duke Energy			3a Work Order # 1861490-01			
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>	·			
	Type Code Symbol	Stamp <u>N/A_</u> Autl	horization No. <u>N</u>	<u>I/A</u>	3b NSM or MN # NA			
	Expiration Date <u>N/</u>	<u>A</u>					•.	
4	Identification of Sys	tem NI SAFET	Y INJECTION	SYSTEM	Class B			
5.	(a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	ida, Code Cases			
	(b) Applicable Editio	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents		······································	
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				· 4		6	·	ð
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Installed	Code Stamped
<u> </u>	· · · · · · · · · · · · · · · · · · ·		Number				mistaned	(yes or no)
Α	Bolting	NA	NA	NA	Mechanical Joint Bolting CN-2NI-22	NA	Installed	No
			· · ·		MJ4			
В				5 A			-	-
	·····							
C .				Ť			-	-
	·							
D							-	-
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E				· .			-	-
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Form NIS-2 (Back)

Section E Exibit A

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 CasesNONE	
(Applicable Manufacturers Data Records to be attached)	
CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this <u>repair or replacement</u> 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. <u>N/A</u> Signed Authorization No. <u>N/A</u> Signed 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 5C and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period <u>5-20-09</u> to <u>5-20-09</u> 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.

Inspector's Sign

Commissions <u>SC233 INN</u>

Date 5-20,2006

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1	OWNER DIKE ENER				1a Date 1/21/09		Sheet 1 of 1	
1.	Address 526 S CHUR	<u>) i</u> Ch stdeet (THADI OTTE N	C 28201.	1006	L		
2	Plant CATAWBA NI	ICI FAR STAT	ION	.C. <u>20201</u> -	$2a \text{ Unit } \boxed{1} \boxed{2} 2$	2	ared (specify I	Inite)
4.1	Address A800 CONCC	DODDAR STAT	SC 20745				lated (specify 0	(ints[])
2	Work Performed Di	Duka Energy	, 5.0. 27745		30 Work Order # 1862040 01			
5.	Address 526 S Chu	roh St. Charlotte	NC 28201 10	06	5a WOIK Oldel # 1802049-01			
	Type Code Symbol	Stamp N/A Aut	horization No. N	<u>1/0</u>	35 NSM or MNI # NA			
	Expiration Date N/	Manp <u>NA</u> Au	10112a(1011 140. <u>1</u>	1/A				
1	Identification of Sys	<u>n</u> etem			Class B			
NI	RESIDIAL HEAT	CREMOVAL S	VSTEM		Class D			
5	(a) Applicable Const	ruction Code III	1974 Edition	S'75 Adden	ida Code Cases			
5.	(h) Applicable Editic	n of Section XI	Utilized for Ret	airs or Rer	placements 1998 Addenda 2000			
6	Identification of Cor	monents Renai	red or Replacem	ent Compo	ments			
0.	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
	Column	Column 2	Column 5	- 4		6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	oomponon		Number	1 1 4 1 1 2 4 1		2	Installed	Stamped (ves or no)
A	Bolting	NA	NA	NA	For 2NDFE5040	NA	Installed	No
	B					,		
В	······································					<u> </u>	-	-
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D	······································						-	-
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Е						······································	-	-
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F							<u>-</u>	-

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of list information in items 1 through 6 on this rep recorded at the top of this form.	s, sketches, or drawings may be used, p orts included on each sheet, and (3) eac	rovided (1) size is 81/2in. x 11 in. (2) ch sheet is numbered and the number of sheets is
7. Description of Work Replace Bolting for	r 2NDFE5040_	
8. Test Conducted: Hydrostatic Pneu Pressure psig	matic Nominal Operating Pressure Test Temp. deg.F.	Other Exempt
9. Remarks _ Code CasesNONE_		
	(Applicable Manufacturers Data Reco	ords to be attached)
	CERTIFICATE OF COMPLIAN	CE
We certify that the statements mad rules of the ASME Code, Section XI.	e in the report are correct and this repa	ir or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	E	Expiration Date <u>N/A</u>
Certificate of Authorization No. $\underline{N/A}$		
Signed Auto Anthe Owner or Owner's Designee, T	<u>TECH SPEC II</u> Date <u>4/21</u>	,20 <i>05</i>
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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 <u>5C</u> 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 5-18-09 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.

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Inspector's Signature

Commissions 5 c 233 T.N.M

Date 5-19_,2009

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.	Owner DUKE ENERC	<u>GY</u>		·	1a Date 4/29/09	Ç	Sheet 1 of 1	
	Address 526 S. CHUR	CH STREET. C	CHARLOTTE N	<u>.C. 28201-</u>	1006			
2.1	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🔲 1 🛛 🖾 🗌 🗌]3 🗌 Sh	ared (specify L	Inits)
	Address 4800 CONCO	RD RD. YORK	, S.C. 29745					
3.	Work Performed By	Duke Energy			3a Work Order # 1865452-05			
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>)06</u>				
	Type Code Symbol	Stamp N/A Autl	horization No. N	I/A	3b NSM or MN # NA			
	Expiration Date N/2	A						
4	Identification of Sys	tem NI SAFET	Y INJECTION	SYSTEM	Class B			
5.	(a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	ida, Code Cases	·		
((b) Applicable Edition	on of Section XI	Utilized for Rep	pairs or Rep	placements 1998 Addenda 2000		, î	
6.	Identification of Cor	mponents Repair	red or Replacem	ent Compo	nents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6]	8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	•		Number		·		Installed	(yes or no)
A	Valve Bonnet	Borg Warner	NA	NA	For valve 2NI118A	NA	Removed	No
В	Valve Bonnet	Borg Warner	38381	NA	For valve 2NI118A	NA	Installed	No
		J						
С							-	-
D		· · · · · · · · ·					-	-
Е							-	-
F				······································		· · ·	-	-
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ASME Section XI Manual	Form NIS-	-2 (Back)	Section E Exi	oit A
NOTE: Supplemental sheets in t information in items 1 through 6 recorded at the top of this form.	form of lists, sketches, or drawin on this reports included on each	ngs may be used, p n sheet, and (3) ea	rovided (1) size is 81/2 ch sheet is numbered as	in. x 11 in. (2) In the number of sheets is
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7 Description of Work Repair V	Jalve 2NI1184			•
7. Description of work repair				• • •
8. Test Conducted: Hydrostatic Pressure 1560 psig	Pneumatic Nominal C Test Temp. 81 deg	Operating Pressure g.F.	Other 🗌 Ex	empt
9. Remarks Code Cases	NONE		••	
				·····
	(Applicable Manuf	acturers Data Rec	ords to be attached)	
·				· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE	OF COMPLIAN	CE	
rules of the ASME Code, Section	n XI.	meet and this repa	u of replacement con	orms to the rules of the
Type Code Symbol Stamp <u>N/A</u>		I	Expiration Date <u>N/A</u>	
Certificate of Authorization No.	<u>N/A</u>		· · · · · · · · · · · · · · · · · · ·	. •
DA 101	1	111-0		۰. ۲
Signed / alto Site	TECH SPEC II	Date 425	,20 <u>6 9</u>	,
Owner or Owner	's Designee, Title			
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		Υ.	and the second sec	
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	CERTIFICATE OF IN	ISERVICE INSP	ECTION	
I, the undersigned, holding a val	CERTIFICATE OF IN	ISERVICE INSP	ECTION	el Inspectors and the
I, the undersigned, holding a val	CERTIFICATE OF IN	ISERVICE INSP tional Board of B	ECTION biler and Pressure Vess	el Inspectors and the
I, the undersigned, holding a val State or Province of $\underline{5c}$	CERTIFICATE OF IN id commission issued by the Nat and employed by HSB I A	ISERVICE INSP tional Board of B AND I Company	ECTION biler and Pressure Vess of <u>Connecticut</u> have	el Inspectors and the
I, the undersigned, holding a val State or Province of <u>fc</u> described in this Owners Report belief, the Owner has performed	CERTIFICATE OF IN id commission issued by the Nat and employed by <u>HSB I A</u> during the period <u>5-14-09</u> examinations and taken correct	ISERVICE INSP tional Board of Bo AND I Company to <u>5-14-oş</u> ive measures desc	ECTION biler and Pressure Vess of <u>Connecticut</u> have and state that to the ribed in this Owner's I	el Inspectors and the inspected the components best of my knowledge and eport in accordance with
I, the undersigned, holding a val State or Province of <u>fc</u> described in this Owners Report belief, the Owner has performed the requirements of the ASME C	CERTIFICATE OF IN id commission issued by the Nat and employed by <u>HSB I 4</u> during the period <u>5-14-09</u> examinations and taken correct Code, Section XI.	ISERVICE INSP tional Board of Bo AND I Company to <u>5-14-05</u> ive measures desc	ECTION biler and Pressure Vess of <u>Connecticut</u> have and state that to the ribed in this Owner's F	el Inspectors and the inspected the components best of my knowledge and eport in accordance with
I, the undersigned, holding a val State or Province of $\underline{5c}$ described in this Owners Report belief, the Owner has performed the requirements of the ASME O By signing this certificate neithe	CERTIFICATE OF IN id commission issued by the Nat and employed by <u>HSB I A</u> during the period <u>5-14-09</u> examinations and taken correct Code, Section XI. r the Inspector nor his employer	ISERVICE INSP tional Board of Board AND I Company to <u>5-14-05</u> ive measures desc makes any warra	ECTION Diler and Pressure Vess <u>of Connecticut</u> have and state that to the ribed in this Owner's F nty, expressed or impli	el Inspectors and the inspected the components best of my knowledge and eport in accordance with ed, concerning the
I, the undersigned, holding a val State or Province of <u>fc</u> described in this Owners Report belief, the Owner has performed the requirements of the ASME C By signing this certificate neithe examinations and corrective mea be liable in any manner for any p	CERTIFICATE OF IN id commission issued by the Nat and employed by <u>HSB I A</u> during the period <u>5-14-09</u> examinations and taken correct code, Section XI. r the Inspector nor his employer asure described in this Owners R personal injury or property dama	ISERVICE INSP tional Board of Bo AND I Company to <u>5-14-09</u> ive measures desc makes any warra Report. Furthermo age or a loss of an	ECTION biler and Pressure Vess of <u>Connecticut</u> have and state that to the ribed in this Owner's I nty, expressed or impli re, neither the Inspector y kind arising from or o	el Inspectors and the inspected the components best of my knowledge and eport in accordance with ed, concerning the r nor his employer shall onnected with this
I, the undersigned, holding a val State or Province of <u>fc</u> described in this Owners Report belief, the Owner has performed the requirements of the ASME O By signing this certificate neithe examinations and corrective mea be liable in any manner for any p inspection.	CERTIFICATE OF IN id commission issued by the Nat and employed by <u>HSB I A</u> during the period <u>5-14-09</u> examinations and taken correct Code, Section XI. r the Inspector nor his employer asure described in this Owners R personal injury or property dama	ISERVICE INSP tional Board of B AND I Company to <u>5-14-09</u> ive measures desc makes any warra Report. Furthermo age or a loss of an	ECTION Diler and Pressure Vess <u>of Connecticut</u> have and state that to the ribed in this Owner's F nty, expressed or impli re, neither the Inspectory y kind arising from or o	el Inspectors and the inspected the components best of my knowledge and eport in accordance with ed, concerning the r nor his employer shall connected with this
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I, the undersigned, holding a val State or Province of $\underline{5c}$ described in this Owners Report belief, the Owner has performed the requirements of the ASME O By signing this certificate neither examinations and corrective means be liable in any manner for any print inspection. $\underline{2c}$ Inspector's Signature Date 5-19,20_9	CERTIFICATE OF IN id commission issued by the Nat and employed by <u>HSB I A</u> during the period <u>5-14-09</u> examinations and taken correct Code, Section XI. r the Inspector nor his employer asure described in this Owners R bersonal injury or property dama	ISERVICE INSP tional Board of Board AND I Company to <u>5-14-09</u> ive measures desc makes any warra Report. Furthermonage or a loss of an sions <u>5 C 2 7</u>	ECTION Diler and Pressure Vess <u>of Connecticut</u> have and state that to the ribed in this Owner's F nty, expressed or impli re, neither the Inspector y kind arising from or of <u>3</u> <u>Z</u> <u>N</u> <u>A</u>	el Inspectors and the inspected the components best of my knowledge and eport in accordance with ed, concerning the r nor his employer shall connected with this
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I, the undersigned, holding a val State or Province of $\underline{5c}$ described in this Owners Report belief, the Owner has performed the requirements of the ASME O By signing this certificate neither examinations and corrective means be liable in any manner for any prinspection. $\underline{2c}$ Inspector's Signature Date $5-142$, 2029	CERTIFICATE OF IN id commission issued by the Nat and employed by HSB I A during the period 5-14-09 examinations and taken correct Code, Section XI. r the Inspector nor his employer asure described in this Owners R bersonal injury or property dama	ISERVICE INSP tional Board of Board AND I Company to <u>5-14-09</u> ive measures desc makes any warra Report. Furthermonage or a loss of an sions <u>5 C 2 7</u>	ECTION Diler and Pressure Vess <u>of Connecticut</u> have and state that to the ribed in this Owner's F nty, expressed or impli re, neither the Inspector y kind arising from or of <u>3 Z N A</u>	el Inspectors and the inspected the components best of my knowledge and eport in accordance with ed, concerning the r nor his employer shall connected with this Revision 6
I, the undersigned, holding a value of Province of $\underline{5c}$ described in this Owners Report belief, the Owner has performed the requirements of the ASME C By signing this certificate neither examinations and corrective meable liable in any manner for any prinspection.	CERTIFICATE OF IN id commission issued by the Nat and employed by <u>HSB I 4</u> during the period <u>5-14-09</u> examinations and taken correct Code, Section XI. r the Inspector nor his employer asure described in this Owners R bersonal injury or property dama	ISERVICE INSP tional Board of B AND I Company to <u>5-14-09</u> ive measures desc makes any warra Report. Furthermo age or a loss of an sions <u>5C 2-3</u>	ECTION biler and Pressure Vess <u>of Connecticut</u> have and state that to the ribed in this Owner's H nty, expressed or impli- tre, neither the Inspector y kind arising from or of <u>3 IN A</u>	el Inspectors and the inspected the components best of my knowledge and eport in accordance with ed, concerning the r nor his employer shall onnected with this Revision 6
I, the undersigned, holding a val State or Province of $\underline{5c}$ described in this Owners Report belief, the Owner has performed the requirements of the ASME O By signing this certificate neither examinations and corrective means be liable in any manner for any prinspection. $\underline{2c}$ Inspector's Signature Date 5-19,20_9	CERTIFICATE OF IN id commission issued by the Nat and employed by HSB I A during the period 514-09 examinations and taken correct Code, Section XI. r the Inspector nor his employer asure described in this Owners R bersonal injury or property dama	ISERVICE INSP tional Board of Board AND I Company to $5 - 14 - 65$ ive measures desc makes any warra Report. Furthermonage or a loss of an sions $5 - 2 - 3$	ECTION Diler and Pressure Vess <u>of Connecticut</u> have and state that to the ribed in this Owner's F nty, expressed or impli re, neither the Inspector y kind arising from or of <u>3 Z M A</u>	el Inspectors and the inspected the components best of my knowledge and eport in accordance with ed, concerning the r nor his employer shall connected with this Revision 6
I, the undersigned, holding a val State or Province of <u>fc</u> described in this Owners Report belief, the Owner has performed the requirements of the ASME O By signing this certificate neither examinations and corrective means be liable in any manner for any prinspection. Manual Manual Manual Manual Inspector's Signature Date 5-14 _,20_9	CERTIFICATE OF IN id commission issued by the Nat and employed by HSB I A during the period 514-09 examinations and taken correct Code, Section XI. r the Inspector nor his employer asure described in this Owners R bersonal injury or property dama	ISERVICE INSP tional Board of B AND I Company to <u>5-14-09</u> ive measures desc makes any warra Report. Furthermo age or a loss of an sions <u>5 C 2 7</u>	ECTION Diler and Pressure Vess <u>of Connecticut</u> have and state that to the ribed in this Owner's F nty, expressed or impli re, neither the Inspectory kind arising from or of <u>3 INA</u>	el Inspectors and the inspected the components best of my knowledge and eport in accordance with ed, concerning the r nor his employer shall connected with this Revision 6
I, the undersigned, holding a value State or Province of $\underline{5c}$ described in this Owners Report belief, the Owner has performed the requirements of the ASME O By signing this certificate neither examinations and corrective means be liable in any manner for any prinspection. $\underline{X_{max}}$ \underline{Max} Inspector's Signature Date 5-14,20.99	CERTIFICATE OF IN id commission issued by the Nat and employed by HSB I A during the period 5-14-09 examinations and taken correct Code, Section XI. r the Inspector nor his employer asure described in this Owners R bersonal injury or property dama	EXAMPLE 1 INSP tional Board of Back AND I Company to $5 - 19 - 09$ ive measures desc makes any warra Report. Furthermon age or a loss of an sions $5 - 2 - 3$	ECTION biler and Pressure Vess <u>of Connecticut</u> have and state that to the ribed in this Owner's I nty, expressed or impli re, neither the Inspectory kind arising from or of <u>3 Z M A</u>	el Inspectors and the inspected the components best of my knowledge and eport in accordance with ed, concerning the r nor his employer shall connected with this Revision 6

Section E Exhibit A

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 4/28/09	Sheet 1 of 1				
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006	$2a$ Unit $\Box 1$ $\Box 2$	3 Shared (specify Units)				
Address 4800 CONCORD RD. YORK, S.C. 29745						
3. Work Performed By <u>Duke Energy</u>	3a Work Order # 1722492-69					
Address 526 S. Church St. Charlotte, N.C. 28201-1006						
Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>	3b NSM or MN # CD200710	· · · · · · · · · · · · · · · · · · ·				
Expiration Date <u>N/A</u>						
4 Identification of System	Class NF					
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	Plate	NA	NA	NA	For S/R 2-R-NV-1741	NA	Installed	No
В	Weld	Duke Energy	C-2NV	170	Weld 2-R-NV-1741-4	2009	Installed	Yes
С								-
D			.,		•		-	-
Е							-	-
F							-	-

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A					
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 CasesNONE_	9. Remarks _ Code CasesNONE						
(Applicable Manufacturers Data Records to be attached)							
CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this <u>repair or replacement</u> conforms to the rules of the rules of the ASME Code, Section XI.							
Type Code Symbol Stamp <u>N/A</u>	Ex	piration Date <u>N/A</u>					
Certificate of Authorization No N/A							
Signed							
CERTIFICATE OF INSERVICE INSPECTION							
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the							
State or Province of CC 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 $4-7$ and state that to the best of mv knowledge and							

described in this Owners Report during the period 3-2l-09 to 9-70-05 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.

Wonthat The essen Inspector's Signature

Commissions <u>4-70-09</u> NC1477 INA

Date 4-70,2009
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Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

_							والمسيوي سيريهن الجبيبي ورزادا التنبيب	
1.	Owner DUKE ENERG	<u> <u>3Y</u></u>			1a Date 4/21/09		Sheet 1 of 1	
	Address 526 S. CHUR	CH STREET. C	CHARLOTTE N	I.C. 28201-	1006			
2.	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🔲 1 🛛 🔀 2	3 Sh	ared (specify U	Jnits)
	Address 4800 CONCC	RD RD. YORK	, S.C. 29745					
3.	Work Performed By	Duke Energy			3a Work Order # 1731351-2	27		
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-1	<u>006</u>				
	Type Code Symbol	Stamp <u>N/A</u> Aut	horization No. <u>N</u>	<u> </u>	3b NSM or MN # CD201139	9		
	Expiration Date <u>N/</u>	A						· · ·
4	Identification of Sys	tem			Class NF			
NI	D RESIDUAL HEAT	REMOVAL S	YSTEM					
5.	(a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adder	nda, Code Cases			
	(b) Applicable Edition	on of Section XI	Utilized for Rej	pairs or Rep	placements 1998 Addenda 2000			
6.	Identification of Con	mponents Repair	red or Replacem	ient Compo	pnents		·····	- <u></u>
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
ļ				4		0		- °
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial Number	Number		Built	Installed	Stamped (yes or no)
A	Rear Bracket	NA	NA	NA	For S/R 2-R-ND-0148	NA	Installed	No
В	Weld	Duke Energy	C-2ND	154	2-R-ND-0148-3	2009	Installed	Yes
С			;				-	-
<u>–</u>		<u> </u>						
								_
E							-	-
				1		1	1	

Revision 6

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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lininformation in items 1 through 6 on this recorded at the top of this form.	sts, sketches, or drawings may be used, properts included on each sheet, and (3) eac	rovided (1) size is 81/2in. x 11 in. (2) h sheet is numbered and the number of sheets is
7. Description of Work Replace S/R 2-R-	ND-0148_	
8. Test Conducted: Hydrostatic Pressure psig	rumatic Nominal Operating Pressure Test Temp. deg.F.	Other Exempt
9. Remarks _ Code CasesNONE	<u>-</u>	
<u> </u>	(Applicable Manufacturers Data Reco	rds to be attached)
We certify that the statements ma rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIANO	CE r or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	E	xpiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u> Signed <u>Authorization State</u> Owner or Owner's Designee,	<u>TECH SPEC II</u> Date <u>4/21</u> Title	,20
Ċ	ERTIFICATE OF INSERVICE INSPI	ECTION

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

State or Province of \underline{fc} and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{2-18-05}$ to $\underline{f-13-05}$ 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.

Inspector's Signature

Commissions <u>SC 233</u>

Date [-17 __,20_09

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1.	Owner DUKE ENERG	<u> </u>			1a Date 3/30/09	1a Date 3/30/09 Sheet 1 of 1		
	Address 526 S. CHUR	CH STREET. C	<u>CHARLOTTE N</u>	I.C. 28201-	1006			
2.	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 1 🛛 1]3 🗍 Sh	ared (specify U	Jnits)
	Address 4800 CONCC	RD RD. YORK	. S.C. 29745					/
3.	Work Performed By	Duke Energy	,		3a Work Order # 1791034-54			
	Address 526 S. Chu	rch St. Charlotte	e. N.C. 28201-10	006				
	Type Code Symbol	Stamp N/A Aut	horization No. N	J/A	3b NSM or MN # NA			
	Expiration Date N/	A						
4	Identification of Sys	tem			Class NF			
RN	NUCLEAR SERV	ICE WATER SY	YSTEM					
5.	(a) Applicable Const	ruction Code III	1974 Edition.	S'75 Adder	nda. Code Cases			
	(b) Applicable Editic	on of Section XI	Utilized for Ret	pairs or Rer	placements 1998 Addenda 2000			
6.	Identification of Con	mponents Repair	red or Replacem	ent Compo	nents	•		
<u>.</u>	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
		Column 2	Column 5	4	Column 5	6		8
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	Component	Wianalacturer	Number	1 tuinoer		Duni	Installed	Stamped
Δ	Snubber	PSA	20813	ΝΑ	2_A_RN_3213	1004	Removed	Ves
A	Shubber	IDA	20015	1475		1774	removed	105
B	Snubber	Lisega	30700002/00	NA	2-A-RN-3213	2007	Installed	Yes
		Line Bu	37					
C						1	-	-
-								
D							-	-
				-	•			
E							-	-
			•					
F							-	-
		1		1 1	1	1	1	

NOTE: Supplemental sheets in form of lis information in items 1 through 6 on this re recorded at the top of this form.	ists, sketches, or drawings may be used, provided (1) size is 81/2in. x 11 in. (2) eports included on each sheet, and (3) each sheet is numbered and the number of sheets is
7 Description of Work 2 & DN 2212 Sn	where Test
7. Description of work 2-A-KN-5215 Sh	
8. Test Conducted: Hydrostatic Pne Pressure psig	eumatic Nominal Operating Pressure Other Exempt A Test Temp. deg.F.
9. Remarks _ Code CasesNONE	<u> </u>
	(Applicable Manufacturers Data Records to be attached)
	CERTIFICATE OF COMPLIANCE
rules of the ASME Code, Section XI.	ade in the report are correct and this repair or replacement, conforms to the rules of the
Type Code Symbol Stamp N/A	Expiration Date N/A
Certificate of Authorization No. N/A	
Signed / alto 2 St.	<u>TECH SPEC II</u> Date <u>3/30</u> ,2009
/ Owner or Owner's Designee,	, litte
	ERTIFICATE OF INSERVICE INSPECTION
C	CERTIFICATE OF INSERVICE INSPECTION
C. I, the undersigned, holding a valid commi	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
C. I, the undersigned, holding a valid commi- State or Province of <u>f</u> <u>C</u> and described in this Owners Report during th belief, the Owner has performed examinat	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4-4-09$ to $4-4-09$ and state that to the best of my knowledge and tions and taken corrective measures described in this Owner's Report in accordance with
C I, the undersigned, holding a valid commi- State or Province of $\underline{\mathcal{SC}}$ and described in this Owners Report during th belief, the Owner has performed examinat the requirements of the ASME Code, Sect	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $\underline{4}, \underline{4}, \underline{9}$ to $\underline{4}, \underline{4}, \underline{9}$ and state that to the best of my knowledge and itions and taken corrective measures described in this Owner's Report in accordance with tion XI.
I, the undersigned, holding a valid comminent State or Province of <u>f</u> C and described in this Owners Report during the belief, the Owner has performed examinate the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure described	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by HSB I AND I Company of Connecticut have inspected the components the period $\underline{4}, \underline{4}, \underline{0}$ to $\underline{4}, \underline{4}, \underline{0}$ and state that to the best of my knowledge and tions and taken corrective measures described in this Owner's Report in accordance with tion XI. bector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall
I, the undersigned, holding a valid commi- State or Province of $\underline{\mathcal{SC}}$ and described in this Owners Report during th belief, the Owner has performed examinat the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure desc be liable in any manner for any personal in inspection	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by HSB I AND I Company of Connecticut have inspected the components the period $4-4-29$ to $4-4-29$ and state that to the best of my knowledge and tions and taken corrective measures described in this Owner's Report in accordance with tion XI. bector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this
I, the undersigned, holding a valid commi- State or Province of <u>5 C</u> and described in this Owners Report during th belief, the Owner has performed examinat the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure desc be liable in any manner for any personal in inspection.	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4.4.09$ to $4.4.09$ and state that to the best of my knowledge and tions and taken corrective measures described in this Owner's Report in accordance with tion XI. bector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this
I, the undersigned, holding a valid commi- State or Province of $\underline{5C}$ and described in this Owners Report during th belief, the Owner has performed examinat the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure desc be liable in any manner for any personal in inspection.	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4.4.9.9$ and state that to the best of my knowledge and thons and taken corrective measures described in this Owner's Report in accordance with tion XI. bector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this
I, the undersigned, holding a valid commin State or Province of <u>5</u> C and described in this Owners Report during th belief, the Owner has performed examinat the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure desc be liable in any manner for any personal in inspection.	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by HSB I AND I Company of Connecticut have inspected the components the period $\underline{4}, \underline{4}, \underline{0}, \underline{9}$ to $\underline{4}, \underline{4}, \underline{0}, \underline{9}$ and state that to the best of my knowledge and tions and taken corrective measures described in this Owner's Report in accordance with tion XI. Dector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this
I, the undersigned, holding a valid commi- State or Province of $\underline{5C}$ and described in this Owners Report during th belief, the Owner has performed examinat the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure desc be liable in any manner for any personal in inspection. \mathcal{M}	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4.4.09$ to $4.4.09$ and state that to the best of my knowledge and tions and taken corrective measures described in this Owner's Report in accordance with tion XI. bector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this <u>Commissions</u> <u>SC233</u> <u>TMM</u>
I, the undersigned, holding a valid commi- State or Province of $5 C$ and described in this Owners Report during th belief, the Owner has performed examinat the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure desc be liable in any manner for any personal in inspection. \mathcal{M} and \mathcal{M} and \mathcal{M} Inspector's Signature Date $\mathcal{J} - \mathcal{J} - \mathcal{J} = \mathcal{J} = \mathcal{J}$	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4.4.4.09$ and state that to the best of my knowledge and titons and taken corrective measures described in this Owner's Report in accordance with tion XI. Dector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this Commissions <u>SC2337400</u>
I, the undersigned, holding a valid commission State or Province of 5° and described in this Owners Report during the belief, the Owner has performed examinate the requirements of the ASME Code, Sect By signing this certificate neither the Inspectaminations and corrective measure describe liable in any manner for any personal in inspection. \mathcal{M} and \mathcal{M} and \mathcal	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $\underline{4.4.09}$ to $\underline{4.4.09}$ and state that to the best of my knowledge and tions and taken corrective measures described in this Owner's Report in accordance with thin XI. bector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this Commissions <u>SC233</u> <u>TMM</u>
I, the undersigned, holding a valid commit State or Province of $5C$ and described in this Owners Report during th belief, the Owner has performed examinat the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure desc be liable in any manner for any personal in inspection.	EXERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by HSB I AND I Company of Connecticut have inspected the components he period $\mathcal{G}_{\mathcal{G}}_{\mathcal{G}_{$
I, the undersigned, holding a valid commin State or Province of 5° and described in this Owners Report during the belief, the Owner has performed examinate the requirements of the ASME Code, Sect By signing this certificate neither the Insp examinations and corrective measure desc be liable in any manner for any personal in inspection.	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4.4.9.9$ to $4.4.9.9$ and state that to the best of my knowledge and tions and taken corrective measures described in this Owner's Report in accordance with tion XI. bector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this Commissions $\underline{SC233.5.4.7}$
I, the undersigned, holding a valid comminent State or Province of 5 C and described in this Owners Report during the belief, the Owner has performed examinate the requirements of the ASME Code, Sected By signing this certificate neither the Inspectaminations and corrective measure describe liable in any manner for any personal in inspection. $\mathcal{X}_{example}$ $\mathcal{X}_{example}$ $\mathcal{X}_{example$	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by HSB I AND I Company of Connecticut have inspected the components he period $\mathcal{Y}, \mathcal{Y}, \mathcal{Q}$ and state that to the best of my knowledge and tions and taken corrective measures described in this Owner's Report in accordance with tion XI. pector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this
I, the undersigned, holding a valid commission State or Province of 5° and described in this Owners Report during the belief, the Owner has performed examinate the requirements of the ASME Code, Sector By signing this certificate neither the Inspectaminations and corrective measure describe liable in any manner for any personal in inspection. $\mathcal{M}_{essent} = \mathcal{M}_{essent} = \mathcal{M}_{essent}$	ERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors and the d employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components he period $\frac{4}{4}, \frac{4}{9}, \frac{9}{2}, \frac{9}{2}$ to $\frac{4}{9}, \frac{4}{9}, \frac{9}{2}, \frac{9}{2}$ and state that to the best of my knowledge and tions and taken corrective measures described in this Owner's Report in accordance with tion XI. Dector nor his employer makes any warranty, expressed or implied, concerning the cribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this CommissionsSC_233TMM

Section E Exhibit A

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 $[] 1 \times 2 []$	3 Shared (specify Units)
Address 4800 CONCORD RD. YORK, S.C. 29745		
3. Work Performed By <u>Duke Energy</u>	3a Work Order # 1796276-51	
Address <u>526 S. Church St. Charlotte, N.C. 28201-1006</u>	•	
Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>	3b NSM or MN # CD201700	
Expiration Date <u>N/A</u>	-	·
4 Identification of System	Class NF	
RN NUCLEAR SERVICE WATER SYSTEM		
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Code	e Cases	· · ·
	1 1000 A 11 1 0000	

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1998 Addenda 20006. 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	2812	NA	2-A-RN-3209	1994	Removed	Yes
В	Snubber	Lisega	30700002/00 41	NA	2-A-RN-3209	2007	Installed	Yes
С							-	-
D							-	-
E	· .						-	-
F							-	-

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of list information in items 1 through 6 on this rep recorded at the top of this form.	s, sketches, or drawings may be used, pr orts included on each sheet, and (3) eac	rovided (1) size is 81/2in. x 11 in. (2) h sheet is numbered and the number of sheets is
7. Description of Work 2-A-RN-3209 Snu	bber Test_	
8. Test Conducted: Hydrostatic Pneu Pressure psig	matic Nominal Operating Pressure Test Temp. deg.F.	Other Exempt
9. Remarks _ Code CasesNONE		
	(Applicable Manufacturers Data Reco	ords to be attached)
We certify that the statements mad rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIANC le in the report are correct and this repai	CE ir or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	E	xpiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u>		
Signed	TECH SPEC II Date <u>3/30</u>	,20 <u>09</u>
		· ·
CE	RTIFICATE OF INSERVICE INSPI	ECTION
I, the undersigned, holding a valid commiss	sion issued by the National Board of Bo	iler and Pressure Vessel Inspectors and the

State or Province of \underline{f} and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\underline{4-4-09}$ to $\underline{4-4-09}$ 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.

Inspector's Signature

Commissions <u>5C 233 TNA</u>

Date <u>4-4</u>,20_9

Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

1. OwnerDUKE ENERGY1a Date 3/15/09Shee									
4	Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006								
2.1	2. Plant CATAWBA NUCLEAR STATION 2a Unit 1 22 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. Chu	rch St. Charlotte	e, N.C. 28201-10	<u> 206</u>					
	Type Code Symbol	Stamp <u>N/A</u> Aut	horization No. <u>N</u>	<u>I/A</u>	3b NSM or MN # CD201520				
	Expiration Date N/2	<u>A</u>							
4	Identification of Sys	tem WN DG R	oom Sump Pum	ip Sys.	Class NF				
5. ((a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adden	da, Code Cases				
((b) Applicable Editic	on of Section XI	Utilized for Rej	pairs or Rep	blacements 1998 Addenda 2000				
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents				
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column	
				4		6		8	
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME	
	Component	Manufacturer	Serial	Number		Built	Removed or	Code Stamped	
			Number				instance	(yes or no)	
Α	U Bolt, Hex Nuts	NA	NA	NA	For S/R 2-A-WN-3010, 2-A-WN-3012,	NA	Installed	No	
					2-A-WN-3013				
В								-	
						·			
С								- ·	
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ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lists, sk information in items 1 through 6 on this reports recorded at the top of this form.	etches, or drawings may be used, included on each sheet, and (3) e	provided (1) size is $81/2$ in x 11 in. (2) ach sheet is numbered and the number of sheets is
7. Description of Work Install WN Supports_		
8. Test Conducted: Hydrostatic Pneumat Pressure psig Te	ic Nominal Operating Pressu est Temp. deg.F.	re D Other Exempt
9. Remarks _ Code CasesNONE_		
(A	pplicable Manufacturers Data Re	cords to be attached)
(CERTIFICATE OF COMPLIA	NCE
We certify that the statements made in rules of the ASME Code, Section XI.	the report are correct and this rep	pair or replacement conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>		Expiration Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u>		
Signed	TECH SPEC II Date 3/15	,20_ 09
		······································
		· · · · · · · · · · · · · · · · · · ·
CERT	IFICATE OF INSERVICE INS	PECTION
I, the undersigned, holding a valid commission	issued by the National Board of I	Boiler and Pressure Vessel Inspectors and the
State or Province of <u>f</u> <u>c</u> and empl described in this Owners Report during the per belief, the Owner has performed examinations at the requirements of the ASME Code, Section X By signing this certificate neither the Inspector examinations and corrective measure described be liable in any manner for any personal injury inspection.	loyed by <u>HSB I AND I Company</u> riod <u>3-2 3-09</u> to <u>3-23-09</u> and taken corrective measures des U. nor his employer makes any warr in this Owners Report. Furtherm or property damage or a loss of a	y of <u>Connecticut</u> have inspected the components and state that to the best of my knowledge and scribed in this Owner's Report in accordance with anty, expressed or implied, concerning the nore, neither the Inspector nor his employer shall ny kind arising from or connected with this
	· .	
Kemeth abuthet	Commissions <u>5 C 2</u>	-33 INA
Date 2 - 2 3,20 0 9		
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Section E Exhibit A

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. CHUR	CH STREET. C	CHARLOTTE N	I.C. 28201-	1006				
2.	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🔲 1 🛛 📿 🗌	3 🗌 Sh	ared (specify U	Inits)	
	Address 4800 CONCORD RD. YORK, S.C. 29745								
3.	Work Performed By <u>Duke Energy</u> 3a Work Order # 1820763-06								
	Address 526 S. Church St. Charlotte, N.C. 28201-1006								
	Type Code Symbol	Stamp <u>N/A</u> Aut	horization No. <u>N</u>	<u> 1/A</u>	3b NSM or MN # NA				
	Expiration Date N/2	<u>A</u>	•						
4	Identification of Sys	tem FW REFU	ELING WATEI	R SYSTEM	Class NF				
5.	(a) Applicable Const	ruction Code III	1974 Edition,	S'75 Adder	da, Code Cases				
	(b) Applicable Edition	on of Section XI	Utilized for Rej	pairs or Rep	blacements 1998 Addenda 2000				
6.	Identification of Con	mponents Repair	red or Replacem	ent Compo	nents	<u>. </u>	•		
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column	
			 	4		6		8	
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME	
	Component	Manufacturer	Serial	Number		Built	Installed	Code Stamped	
			Number				mistaned	(yes or no)	
A	Snubber	PSA	11568	NA	2-R-FW-003	1981	Removed	Yes	
В	Snubber	Lisega	30700524/00	NA	2-R-FW-003	2007	Installed	Yes	
			2				·		
С	Snubber	PSA	11552	NA	2-R-FW-003	1981	Removed	Yes	
								·	
D	Snubber	Lisega	30700525/00	NA	2-R-FW-003	2007	Installed	No	
			3						
E			· · ·				-	-	
	· · · · · · · · · · · · · · · · · · ·								
F							-	-	
						1	1		

ASME Section XI Manual	Form NIS-2 (Back)	Section E	Exibit A
NOTE: Supplemental sheets in form of lists information in items 1 through 6 on this reported at the top of this form.	s, sketches, or drawings may be used, p orts included on each sheet, and (3) eac	provided (1) size is ch sheet is number	s 81/2in. x 11 in. (2) red and the number of sheets is
7. Description of Work 2-R-FW-003 Snubb	ber Test_		
8. Test Conducted: Hydrostatic Pneu Pressure psig	matic Nominal Operating Pressure Test Temp. deg.F.	• Other	Exempt 🛛
9. Remarks _ Code CasesNONE_			·
· ·	(Applicable Manufacturers Data Rec	ords to be attached	d)
We certify that the statements mad rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIAN e in the report are correct and this <u>repa</u>	CE air or replacement	conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	Η	Expiration Date N	<u>I/A</u>
Certificate of Authorization No. <u>N/A</u> Signed	<u>TECH SPEC II</u> Date <u>3/30</u> itle	,20 <u>0 9</u>	
· ·			
СЕ	RTIFICATE OF INSERVICE INSP	PECTION	
I, the undersigned, holding a valid commiss	ion issued by the National Board of B	oiler and Pressure	Vessel Inspectors and the
		of Commont and	1

State or Province of ______ and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period $\frac{4}{300}$ to $\frac{4}{300}$ 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.

Inspector's Signature

Commissions бC. INA

Date <u>4-3</u>,20<u>09</u>

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Section E Exhibit A

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

As Required By The Provisions Of The ASME Code Section XI

-			<u>_</u>					
1. Owner DUKE ENERGY					1a Date 3/31/09	Sheet 1 of 1		
	Address 526 S. CHUR	<u>RCH STREET. C</u>	CHARLOTTE N	I.C. 28201-	<u>1006</u>			
2.	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🗌 1 🛛 📿 🗌]3 🗌 Sh	ared (specify U	nits)
	Address 4800 CONCC	ORD RD. YORK	, S.C. 29745					, ,
3.	Work Performed By	Duke Energy			3a Work Order # 1821155-03			
	Address 526 S. Chu	rch St. Charlotte	e, N.C. 28201-10	<u>006</u>				
	Type Code Symbol	Stamp N/A Aut	horization No. <u>N</u>	J∕A	3b NSM or MN # NA			
	Expiration Date N/	A						
4	Identification of Sys	stem			Class NF			
N	V CHEMICAL VOL	UME CONTRO	DL SYSTEM					
5.	(a) Applicable Const	truction Code III	1974 Edition,	S'75 Adder	nda, Code Cases			
	(b) Applicable Edition	on of Section XI	Utilized for Rei	pairs or Rer	placements 1998 Addenda 2000			
6.	Identification of Con	mponents Repair	red or Replacem	ient Compo	onents			
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column
				4		6		8
-	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME
	Component	Manufacturer	Serial	Number		Built	Removed or	Code
	-		Number				Installed	Stamped (ves or no)
Ā	Bolting	NA	NA	NA	Bolting for S/R 2-R-NV-358	NA	Installed	No
• -	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
B	· · · · · · · · · · · · · · · · · · ·	<u> </u>					-	-
-		[
C	<u> </u>	[· · · · · · · · · · · · · · · · · · ·		-	
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D	<u> </u>						-	-
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E						1	-	-
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Revision 6

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ASME Section XI Manual	Form NIS-2 (Back) Section E Exibit A
NOTE: Supplemental sheets in form of information in items 1 through 6 on this recorded at the top of this form.	lists, sketches, or drawings may be used, provided (1) size is $81/2$ in x 11 in. (2) reports included on each sheet, and (3) each sheet is numbered and the number of sheets is
7 Departmention of Work Posters 8/2 2 I) NR/ 120
7. Description of work Restore S/R 2-R	(-NV-139_
8. Test Conducted: Hydrostatic Pr Pressure psig	neumatic Nominal Operating Pressure Other Exempt Area Test Temp. deg.F.
9 Remarks Code Cases NON	Ē
<u> </u>	(Applicable Manufacturers Data Records to be attached)
<u> </u>	
We certify that the statements r	CERTIFICATE OF COMPLIANCE nade 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. <u>N/A</u>	
Signed /alts for and	<u>TECH SPEC II</u> Date <u>3/31</u> ,2009
· ·	
	CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid comm	CERTIFICATE OF INSERVICE INSPECTION nission issued by the National Board of Boiler and Pressure Vessel Inspectors and the
I, the undersigned, holding a valid comm State or Province of <u>f</u> (and described in this Owners Report during belief, the Owner has performed examine the requirements of the ASME Code, Se By signing this certificate neither the Inst examinations and corrective measure de be liable in any manner for any personal	CERTIFICATE OF INSERVICE INSPECTION nission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4-2-29$ to $4-2-29$ and state that to the best of my knowledge and nations and taken corrective measures described in this Owner's Report in accordance with ection XI. spector nor his employer makes any warranty, expressed or implied, concerning the escribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall I injury or property damage or a loss of any kind arising from or connected with this
I, the undersigned, holding a valid comm State or Province of <u>f</u> (ar described in this Owners Report during belief, the Owner has performed examin the requirements of the ASME Code, Se By signing this certificate neither the Ins examinations and corrective measure de be liable in any manner for any personal inspection.	CERTIFICATE OF INSERVICE INSPECTION nission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4-2-29$ to $4-2-29$ and state that to the best of my knowledge and nations and taken corrective measures described in this Owner's Report in accordance with ection XI. spector nor his employer makes any warranty, expressed or implied, concerning the escribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall I injury or property damage or a loss of any kind arising from or connected with this
I, the undersigned, holding a valid comm State or Province of \underline{fC} ar described in this Owners Report during belief, the Owner has performed examin the requirements of the ASME Code, Se By signing this certificate neither the Ins examinations and corrective measure de be liable in any manner for any personal inspection.	CERTIFICATE OF INSERVICE INSPECTION nission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4-2-29$ to $4-2-29$ and state that to the best of my knowledge and nations and taken corrective measures described in this Owner's Report in accordance with ection XI. spector nor his employer makes any warranty, expressed or implied, concerning the escribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall I injury or property damage or a loss of any kind arising from or connected with this
I, the undersigned, holding a valid comm State or Province of <u>f</u> <u>c</u> ar described in this Owners Report during belief, the Owner has performed examin the requirements of the ASME Code, Se By signing this certificate neither the Ins examinations and corrective measure de be liable in any manner for any personal inspection.	CERTIFICATE OF INSERVICE INSPECTION nission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4-2-29$ to $4-2-29$ and state that to the best of my knowledge and hations and taken corrective measures described in this Owner's Report in accordance with ection XI. spector nor his employer makes any warranty, expressed or implied, concerning the isscribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall l injury or property damage or a loss of any kind arising from or connected with this
I, the undersigned, holding a valid comm State or Province of $\underline{\mathbf{r}} \underline{\mathbf{c}}$ ar described in this Owners Report during belief, the Owner has performed examin the requirements of the ASME Code, Se By signing this certificate neither the Ins examinations and corrective measure de be liable in any manner for any personal inspection.	CERTIFICATE OF INSERVICE INSPECTION inission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period <u>$4-2-09$</u> to <u>$4-2-09$</u> and state that to the best of my knowledge and hations and taken corrective measures described in this Owner's Report in accordance with ection XI. spector nor his employer makes any warranty, expressed or implied, concerning the sscribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall l injury or property damage or a loss of any kind arising from or connected with this <u>Commissions</u> <u>5C233</u> <u>CMA</u>
I, the undersigned, holding a valid comm State or Province of \underline{fC} ard described in this Owners Report during belief, the Owner has performed examine the requirements of the ASME Code, See By signing this certificate neither the Inse examinations and corrective measure de be liable in any manner for any personal inspection.	CERTIFICATE OF INSERVICE INSPECTION inission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4-2-05$ to $4-2-05$ and state that to the best of my knowledge and hations and taken corrective measures described in this Owner's Report in accordance with ection XI. spector nor his employer makes any warranty, expressed or implied, concerning the escribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall 1 injury or property damage or a loss of any kind arising from or connected with this <u>Commissions</u> <u>5C 237</u> <u>CMB</u>
I, the undersigned, holding a valid comm State or Province of \underline{fC} ar described in this Owners Report during belief, the Owner has performed examin the requirements of the ASME Code, Se By signing this certificate neither the Ins examinations and corrective measure de be liable in any manner for any personal inspection. Date $\underline{4-c}$ _,20_06	CERTIFICATE OF INSERVICE INSPECTION nission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4-2-29$ to $4-2-29$ and state that to the best of my knowledge and nations and taken corrective measures described in this Owner's Report in accordance with ection XI. spector nor his employer makes any warranty, expressed or implied, concerning the scribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this <u>Commissions</u> <u>SC229</u> <i>DNB</i>
I, the undersigned, holding a valid comm State or Province of \underline{fc} ar described in this Owners Report during belief, the Owner has performed examin the requirements of the ASME Code, Se By signing this certificate neither the Ins examinations and corrective measure de be liable in any manner for any personal inspection.	CERTIFICATE OF INSERVICE INSPECTION nission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4-2-09$ to $4-2-09$ and state that to the best of my knowledge and nations and taken corrective measures described in this Owner's Report in accordance with ection XI. spector nor his employer makes any warranty, expressed or implied, concerning the scribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall 1 injury or property damage or a loss of any kind arising from or connected with this Commissions $5c235$ $5mm$ Revision 6
I, the undersigned, holding a valid comr State or Province of \underline{fc} ar described in this Owners Report during belief, the Owner has performed examin the requirements of the ASME Code, Se By signing this certificate neither the Inse examinations and corrective measure de be liable in any manner for any personal inspection. \underline{X} \underline{M} \underline{M} \underline{M} \underline{M} \underline{M} Inspector's Signature Date $\underline{4}$ $\underline{4}$ $\underline{2}$ $\underline{20}$ $\underline{06}$ $\underline{100}$	CERTIFICATE OF INSERVICE INSPECTION inission issued by the National Board of Boiler and Pressure Vessel Inspectors and the ind employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $\underline{\#-2} - g$ to $\underline{\#-2} - g$ and state that to the best of my knowledge and nations and taken corrective measures described in this Owner's Report in accordance with extern nor his employer makes any warranty, expressed or implied, concerning the scribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall 1 injury or property damage or a loss of any kind arising from or connected with this <u>Commissions</u> <u>SCZZJZ TMA</u> Revision 6
I, the undersigned, holding a valid comr State or Province of \underline{fC} ar described in this Owners Report during belief, the Owner has performed examin the requirements of the ASME Code, Se By signing this certificate neither the Inse examinations and corrective measure de be liable in any manner for any personal inspection. $\underline{X}_{\underline{m}}\underline{k}\underline{k}$ $\underline{k}\underline{k}\underline{k}\underline{k}\underline{k}\underline{k}\underline{k}\underline{k}\underline{k}\underline{k}$	CERTIFICATE OF INSERVICE INSPECTION inission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $\underline{4-2} \cdot \underline{0.9}$ to $\underline{4-2} \cdot \underline{0.9}$ and state that to the best of my knowledge and nations and taken corrective measures described in this Owner's Report in accordance with extrine this owners Report. Furthermore, neither the Inspector nor his employer shall injury or property damage or a loss of any kind arising from or connected with this Commissions <u>SC233</u> <u>CMB</u> Revision 6
I, the undersigned, holding a valid comr State or Province of \underline{fc} ar described in this Owners Report during belief, the Owner has performed examin the requirements of the ASME Code, Se By signing this certificate neither the Ins examinations and corrective measure de be liable in any manner for any personal inspection. \underline{X}_{absult} \underline{M}_{absult} Inspector's Signature Date $\underline{4}_{-2}$ 20_06	CERTIFICATE OF INSERVICE INSPECTION nission issued by the National Board of Boiler and Pressure Vessel Inspectors and the and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components the period $4-2-29$ to $4-2-29$ and state that to the best of my knowledge and nations and taken corrective measures described in this Owner's Report in accordance with ection XI. spector nor his employer makes any warranty, expressed or implied, concerning the escribed in this Owners Report. Furthermore, neither the Inspector nor his employer shall I injury or property damage or a loss of any kind arising from or connected with this <u>Commissions</u> <u>5C 233 TMM</u> Revision 6

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 3/31/09	Sheet 1 of 1
Address 526 S. CHURCH STREET. CHARLOTTE N.C. 28201-1006		
2. Plant CATAWBA NUCLEAR STATION Address 4800 CONCORD RD. YORK, S.C. 29745		_ 3 _ Shared (specify Units)
3. Work Performed By <u>Duke Energy</u>	3a Work Order # 1829884-05	
Address 526 S. Church St. Charlotte, N.C. 28201-1006	•	
Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>	3b NSM or MN # NA	
Expiration Date <u>N/A</u>		
4 Identification of System	Class NF	
ND RESIDUAL HEAT REMOVAL SYSTEM		
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Cod	le Cases	
(b) Applicable Edition of Section XI Utilized for Repairs or Replacement	nts 1998 Addenda 2000	
		and the second

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	Pivot Pin	NA	NA	NA	For S/R 2-R-ND-406	NA	Installed	No
В			÷.	· ·			-	-
C				·			-	-
D							-	
E							-	-
F							-	-

Revision 6

Section E Exhibit A

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A
NOTE: Supplemental sheets in form of lists information in items 1 through 6 on this reported at the top of this form.	s, sketches, or drawings may be used, provide orts included on each sheet, and (3) each shee	ed (1) size is 81/2in. x 11 in. (2) et is numbered and the number of sheets is
7. Description of Work Restore S/R 2-R-NI	D-406_	
8. Test Conducted: Hydrostatic Pneur Pressure psig	matic Nominal Operating Pressure Test Temp. deg.F.	Other Exempt
9. Remarks _ Code CasesNONE_		
	(Applicable Manufacturers Data Records to	be attached)
	CERTIFICATE OF COMPLIANCE	
We certify that the statements made rules of the ASME Code, Section XI.	e in the report are correct and this <u>repair or re</u>	<u>eplacement</u> conforms to the rules of the
Type Code Symbol Stamp <u>N/A</u>	Expirat	ion Date <u>N/A</u>
Certificate of Authorization No. <u>N/A</u>		
Signed Auto Z State Owner or Owner's Designee, T	<u>TECH SPEC II</u> Date <u>3/3/</u> ,2	20 09
CE	RTIFICATE OF INSERVICE INSPECTI	ON
I, the undersigned, holding a valid commiss	ion issued by the National Board of Boiler ar	nd Pressure Vessel Inspectors and the

State or Province of 5° and employed by <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period <u>4-3-09</u> to <u>4-3-09</u> 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.

Inspector's Signature

Commissions SC 233 INA

Date 4-7 ____,20_08

Section E Exhibit A

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	ŝ	Sheet 1 of 1				
•	Address 526 S. CHUR	CH STREET. C	CHARLOTTE N	.C. 28201-	1006	. *				
2.	Plant CATAWBA NU	JCLEAR STAT	ION		2a Unit 🗍 1 🕅 2 🦳	3 🗍 Sh	ared (specify U	nits)		
	Address 4800 CONCORD RD. YORK, S.C. 29745							·		
3.	Work Performed By	Duke Energy	-		3a Work Order # 1846634-01	3a Work Order # 1846634-01				
Address 526 S. Church St. Charlotte, N.C. 28201-1006										
	Type Code Symbol	Stamp N/A Aut	horization No. N	J/A	3b NSM or MN # CD201489					
	Expiration Date N/2	A .	_							
4	4 Identification of System NC REACTOR COOLANT SYSTEM Class NF									
5.	(a) Applicable Const	ruction Code III	1974 Edition, S	S'75 Adden	ida, Code Cases					
	(b) Applicable Editio	on of Section XI	Utilized for Rep	oairs or Rep	lacements 1998 Addenda 2000					
6.	Identification of Cor	nponents Repair	red or Replacem	ent Compo	nents					
	Column 1	Column 2	Column 3	Column	Column 5	Column	Column 7	Column		
				4		6		8		
	Name of	Name of	Manufacturer	NB	Other Identification (Size)	Year	Corrected,	ASME		
	Component	Manufacturer	Serial	Number		Built	Removed or	Code		
			Number				Installed	(yes or no)		
A	Welds	Duke Energy	C-2NC	171	Weld# RCP-2A-SHIM-Z2, RCP-2B-	2009	Installed	Yes		
					SHIM-Z2					
В				·····						
							-	-		
_							-	-		
C				-			-	-		
С							-	-		
C D						· · · · · · · · · · · · · · · · · · ·	-	-		
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C D E F		(-	- - -		

ABIVIL Beetion Al Mandal	FOIM NIS-2 (Back)	Section E Exion A				
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 Supp	ort_					
8. Test Conducted: Hydrostatic Pneumatic Pressure psig Test	Nominal Operating Pressur Temp. deg.F.	e Other Exempt				
9. Remarks _ Code CasesNONE_						
(App	blicable Manufacturers Data Rec	cords to be attached)				
CE We certify that the statements made in th rules of the ASME Code, Section XI.	RTIFICATE OF COMPLIAF e report are correct and this <u>rep</u>	NCE <u>air or replacement</u> conforms to the rules of the				
CE We certify that the statements made in th rules of the ASME Code, Section XI. Type Code Symbol Stamp <u>N/A</u>	RTIFICATE OF COMPLIAF the report are correct and this <u>rep</u>	NCE <u>air or replacement</u> conforms to the rules of the Expiration Date <u>N/A</u>				
CE We certify that the statements made in th rules of the ASME Code, Section XI. Type Code Symbol Stamp <u>N/A</u> Certificate of Authorization No. <u>N/A</u>	RTIFICATE OF COMPLIAF e report are correct and this <u>rep</u>	NCE <u>air or replacement</u> conforms to the rules of the Expiration Date <u>N/A</u>				
CE We certify that the statements made in th rules of the ASME Code, Section XI. Type Code Symbol Stamp <u>N/A</u> Certificate of Authorization No. <u>N/A</u> Signed <u>Authorization No. <u>N/A</u> Owner or Owner's Designee, Title</u>	RTIFICATE OF COMPLIAF the report are correct and this <u>rep</u>	NCE air or replacement_conforms to the rules of the Expiration Date <u>N/A</u> 20 <u>09</u>				
$\begin{array}{c} CE\\ We certify that the statements made in thrules of the ASME Code, Section XI.\\ Type Code Symbol Stamp N/ACertificate of Authorization No. N/ASigned \begin{array}{c} \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \hline \\$	RTIFICATE OF COMPLIAF the report are correct and this <u>rep</u>	NCE <u>air or replacement</u> conforms to the rules of the Expiration Date <u>N/A</u> ,20 <u>09</u>				

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 <u>HSB I AND I Company of Connecticut</u> have inspected the components described in this Owners Report during the period _______ to $\underline{\varsigma_{-14} \circ \varsigma_{-}}$ 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.

Inspector's Signature

Commissions NBJ2410

Date 5. 19-09, 20 09

Section E Exhibit A

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 <u>526 S. CHURCH STREET. CHARLOTTE N.C.</u> 28201-1006 2. Plant CATAWBA NUCLEAR STATION	2a Unit 🗌 1 🔀 2 🔲 3	3 Shared (specify Units)
Address 4800 CONCORD RD. YORK, S.C. 29745		
3. Work Performed By <u>Duke Energy</u>	3a Work Order # 1863602-01	
Address <u>526 S. Church St. Charlotte, N.C. 28201-1006</u>		
Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u>	3b NSM or MN # NA	
Expiration Date <u>N/A</u>	•	
4 Identification of System	Class NF	
BB STEAM GERATOR BLOWDOWN SYSTEM		
5. (a) Applicable Construction Code III 1974 Edition, S'75 Addenda, Cod	e Cases	
$(1) \land (1) $	0000 L 11- 1- 0000	

(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
В	Snubber	Lisega	30800150/00 7	NA	S/R 2-R-BB-1081	2008	Installed	Yes
С	· · ·						-	-
D							-	-
Е	· · · ·						-	-
F					· · · ·		-	-

ASME Section XI Manual	Form NIS-2 (Back)	Section E Exibit A					
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 Pner Pressure psig	umatic Nominal Operating Pressure Test Temp. deg.F.	Other Exempt					
9. Remarks _ Code CasesNONE	<u>.</u> · · <u></u>						
-	(Angliachie Manufacturan Data Data						
	(Applicable Manufacturers Data Reco	Srds to be attached)					
We certify that the statements ma rules of the ASME Code, Section XI.	CERTIFICATE OF COMPLIAN de in the report are correct and this repa	CE ir or replacement conforms to the rules of the					
Type Code Symbol Stamp <u>N/A</u>	E	Expiration Date <u>N/A</u>					
Certificate of Authorization No. <u>N/A</u> Signed	<u>TECH SPEC II</u> Date <u>4/6</u> Title	,20 <u>09</u>					
CI	ERTIFICATE OF INSERVICE INSP	ECTION					
I, the undersigned, holding a valid commis	sion issued by the National Board of Bo	oiler and Pressure Vessel Inspectors and the					
State or Province of and described in this Owners Report during the belief, the Owner has performed examinations the requirements of the ASME Code, Section By signing this certificate neither the Inspectations and corrective measure describe liable in any manner for any personal in inspection.	employed by <u>HSB I AND I Company</u> e period $5 - 13 - 02$ to $5 - 13 - 05$ ions and taken corrective measures desc ion XI. ector nor his employer makes any warran ribed in this Owners Report. Furthermon ijury or property damage or a loss of any	of <u>Connecticut</u> have inspected the components and state that to the best of my knowledge and ribed in this Owner's Report in accordance with nty, expressed or implied, concerning the ore, neither the Inspector nor his employer shall y kind arising from or connected with this					

Inspector's Signature

Date 5 - 1 7 ____,20 g ____

6.0 <u>Pressure Testing</u>

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 1 st 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%			
С-н	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			
С-Н	System Leakage Test (IWC-5220)	8 .			

EOC 16 Refueling Outage Report Catawba Unit 2 Section 6 Page 1 of 6 Revision 0 June 10, 2009

	Table 6-3 Detailed Class 2 - 1 st Period Listing						
				VT-2			
			Completion	Examination	Code		
	Zone Number	Boundary Dwg	Status	Date	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		

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.

EOC 16 Refueling Outage Report Catawba Unit 2 Section 6

Page 2 of 6 Revision 0 June 10, 2009

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	Total Examina Test Requirement Credited For This									
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%								
KI, MARA												
С-Н	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								

EOC 16 Refueling Outage Report Catawba Unit 2 Section 6 Page 3 of 6 Revision 0 June 10, 2009 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.

	Ta	ble 6-7 Detailed Cl	lass 2 – 2 nd Pei	riod Listing				
				VT-2				
			Completion	Examination	Code			
	Zone Number	Boundary Dwg	Status	Date	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	Complete 02/11/2009				
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			
1		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			

EOC 16 Refueling Outage Report Catawba Unit 2 Section 6

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Table 6-7 Detailed Class 2 – 2 nd Period Listing										
				VT-2						
i	Zone Number	Boundary Dwg	Completion Status	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	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					
1		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	lete 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					
1		CN-ISIL3-1554-1.2	Complete	04/17/2009	None					
					None					
					None					
					None					
					None					

EOC 16 Refueling Outage Report Catawba Unit 2 Section 6

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Table 6-7 Detailed Class 2 – 2 nd Period Listing											
	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Case(s) Used						
31	2NW-001L-B	CN-ISII 3-2569-1.0	Not Yet Tested		None						
	ZINV OUTE D	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: 6/10/09 hman

Section 6 Reviewed By:	Date:
R. J. Hudson	6115-109

EOC 16 Refueling Outage Report Catawba Unit 2 Section 6 Page 6 of 6 Revision 0 June 10, 2009

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:

Reviewed By:

. W. Downing Approved By:

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NRC Document Control

Hartford Steam Boiler Inspection and Insurance Co. of Connecticut (AIA)

Steam Generator Desktop

Electronic

2

	FORM NIS-1 OW	NER'S DATA	REPORT FOR	INSERVICE I	NSPECTIONS									
	As rec	luired by the Pr	ovisions of the A	SME Code R	ules									
	in a serie serie and a manual definition of the series of	<u> </u>												
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 req	uired) <u>N/A</u>											
5.	Commercial Service I	Date: <u>August 19, 19</u>	86											
6.	National Board Numb	er for Unit 173												
7.	Components Inspecte	d:												
	Component	Manufacturer	Manufacturer <u>Serial No.</u>	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.

8.	Examination Dates	11/17/2007		to 04/19/	2009
'n	Inspection Period Idea	ification	<i>4</i> 2		nga - 2 (ministra digi - digi di gina di gina di sena d
9.	inspection i chou idea		#4		in the second
10.	Inspection Interval Iden	ntification:	#3	 	-mitalitation
11.	Applicable Edition of S	Section XI	1998	Addenda	2000
12.	Date/Revision of Inspe	ction Plan:	Per Technic	al Specification (5.	5.9)
13.	Abstract of Examinations work required for the Insp	and Test. Includ	e a list of examin	ations and tests and	a statement concerning status of
14.	Abstract of Results of Ex	amination and Te	sts.		
15.	Abstract of Corrective M	easures.			
Date	<u></u>	۶ Signed	Duke Energy Car Owner	olinas, LLC By	P.W. Downing
.: :		CERTIFICAT	T OF INSERV		<u> </u>
		02111110111	E UP INSERVI	CE INSPECTION	
I, the Inspi Repo know the C E conc the I any	e undersigned, holding a ectors and the State of Pre- ection and Insurance Com- ort during the period <u>7</u> . vledge and belief, the Ow Owners! Report in accord by signing this certificate terning the examinations, nspector nor his employed kind arising from or com-	valid commission, poince of <u>Sc_1</u> apany of <u>Conner</u> oner has performed ance with the Inspect test, and corrective r shall be liable in ected with this in that Con	issued by the National States of INSERVI issued by the National States of S	CE INSPECTION ional Board of Boild employed by *The cted the component g, a id tests and taken co is required by the As yer makes any warr ibed in this Owners any personal injury C_2 33 Im.	er and Pressure Vessel Hartford Steam Boiler s described in this Owners' nd state that to the best of my rrective measures described in SME Code, Section XI. anty, expressed or implied, (Report. Furthermore, neither or property damage or a loss of
I, the Inspired Report know the C E conce the I any I	e undersigned, holding a ectors and the State of Pre- ection and Insurance Com- ort during the period <u>7</u> - wledge and belief, the Ow Owners! Report in accord by signing this certificate erning the examinations, nspector nor his employed kind arising from or com- <u>ensult</u> <u>Out</u> Inspector's Signatur	valid commission povince of <u>S</u> <u>C</u> <u>inpany</u> of <u>Conne</u> <u>nor</u> nor has performed ance with the Inspect test, and corrective r shall be liable in ected with this in: $tttt \underline{T}$ Conne	issued by the Na issued by the Na $N \in k$ of $2 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + $	CE INSPECTION ional Board of Boild employed by <u>*The</u> cted the component <u>9</u> , a id tests and taken co is required by the Af yer makes any warr ibed in this Owners any personal injury in <u>C 2 3 3 Z M</u> National Board, S	er and Pressure Vessel <u>Hartford Steam Boiler</u> s described in this Owners' and state that to the best of my rrective measures described in SME Code, Section XI. anty, expressed or implied, (Report. Furthermore, neither or property damage or a loss of tate, Province, and Endorsemen
I, the Inspi Repo Repo know the C E conce the I any I Z Date	e undersigned, holding a ectors and the State of Pre- ection and Insurance Com- ort during the period <u>7</u> - vledge and belief, the Ow Owners' Report in accord by signing this certificate erning the examinations, nspector nor his employee kind arising from or com- constitution of the signature Inspector's Signature	valid commission povince of <u>conne</u> <u>pany</u> of <u>conne</u> <u>or -09</u> mer has performed ance with the Inspect test, and corrective r shall be liable in ected with this int tt_t <u>conne</u> <u>conne</u>	issued by the National Stress of the Nationa	CE INSPECTION ional Board of Boild employed by <u>*The</u> cted the component 9 , a id tests and taken co is required by the As yer makes any warr ibed in this Owners any personal injury in C 2 3 3 T N 4 National Board, S	er and Pressure Vessel <u>Hartford Steam Boiler</u> s described in this Owners' nd state that to the best of my mective measures described in SME Code, Section XI. anty, expressed or implied, (Report. Furthermore, neither or property damage or a loss of tate, Province, and Endorsemen

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 LARC.

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	A	В	С	D	Total
Generator					
Prior to	69	107	55	87	318
EOC16					
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

RO	W COI	VOLTS	DEG	CHN	IND	%TW	LOCA	TION		UTIL 1	U	TIL	2	PROBE	SCOPE			CRK LEN	CRK WID	CRK CIR
==	== ===	= =======			===	===							==		======					
1	23	3.93	36	3	MAI		TEH	0.27						+MPT6IURPC3C	MISC R	PC		0.00	0.00	0.00
		4.30	44	54	MAL		TEH	0.14						6IUXP	Tubesn	eet Exam		0.00	0.00	0.00
	~ ~	3.10	31	3	MAI	•	TEH	0.09						+PT6IURPC3C	Misc R	PC		0.00	0.00	0.00
15	98	0.50	0	166	TWD	8	04H	-0.60		WAR				6IUXP	HL and	CL Spec	ial I	0.27	0.20	31.00
		0.13	97	PI	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 Spec	ial 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	Р4	TWD	8	AV4	0.00		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
		0.65	0	P4	TWD	14	AV2	0.00	1	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	Ρ4	TWD	10	AV2	0.00	1	WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
		0.33	86	170	VOL		AV2	0.00	1	WAR				610XP	UBend	Special	Inter	0.00	0.00	0.00
33	93	0.72	0	Р4	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	1	WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
		0.95	92	90	VOL		AV2	0.00	1	WAR				610XP	UBend	Special	Inter	0.00	0.00	0.00
33	99	0.44	0	P4	TWD	11	AV2	0.00	ł –	WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
33	100	0.80	0	P4	TWD	16	AV3	0.00	ł	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	ł	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	ł	WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
35	28	1.00	0	P4	TWD	19	AV3	-0.09	1	WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
		0.39	0	P4	TWD	10	AV2	0.00	ł	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	ł	WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
37	17	0.55	Ō	P4	TWD	.12	AV3	0.00	•	WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
•		0.25	Ō	P4	TWD	7	AV2	0.06		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
37	27	0.71	Ō	P4	TWD	16	AV2	0.00		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
37	39	0.62	Ō	P4	TWD	15	AV2	0.15		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
37	77	0.45	õ	P4	TWD	10	AV4	-0.07		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
• ·		0.77	õ	P4	TWD	15	AV3	0.07		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
		0.76	Ō	P4	TWD	14	AV2	-0.09	I	WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
38	17	0.48	Ô	P4	TWD	13	AV4	0.00	1	WAR		•		XPMMR610	Bobbin	Exam		0.00	0.00	0.00
	·	0.89	õ	P4	TWD	18	AV3	0.00	I	WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
		0.51	õ	P4	TWD	13	AV1	0.00		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
38	21	0.83	ō	P4	TWD	16	AV2	0.00	1	WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
38	22	0.37	õ	P4	TWD	8	AV3	0.00		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
00		0.71	õ	P4	TWD	13	AV2	0.00		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
38	23	0.42	ñ	P4	TWD	11	AV2	0.00		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
38	25	0.61	ň	P4	TWD	12	AVR	0.06		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
38	20	0.01	ň	ÞΔ	TWD	15	203	0.00		WAR				XPMMR610	Bobbin	Exam		0 00	0 00	0.00
50	0.5	0.07	ñ	P4	TWD	15	AV2	0.00		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
30	91	0.05	ň	ÞΔ	TWD	12	21/2	0.00		WAR				XPMMR610	Bobbin	Exam		0 00	0.00	0.00
50	1	0.50	ñ		TWD	15	202	0.00		WAR				XPMMR610	Bobbin	Exam		0.00	0.00	0.00
20	03	0.07	õ	D/	TWD	19	AV2	0.00		WAR				YDMMR610	Bobbin	Evan		0.00	0.00	0.00
20	95	0.90	Ň	гч р/	TWD	10	7174	0.00		WAR				VDMMD610	Bobbin	Exam		0.00	0.00	0.00
20	90	0.40	ň	БЛ Г1	- תקיד - תקיד	15	202	0.00		WAR				XPMMR610	Bobbin	Evan		0.00	0.00	0 00
		2 10	õ	гч D/	TWD	2P 7D	202	0.00		MAR				VDMMR610	Boppin	Evam		0.00	0.00	0.00
20	07	4.19	0	г4 БЛ	TWD	40 17	AV2	0.00		MAN				VDMMD610	Boppie	Evam		0.00	0.00	0.00
30	91	1 40	0	F4 D4		22	7177	0.00		WAL				VDMMD610	Boppin	Evan		0.00	0.00	0.00
		1.40	0	14 D/	TWD	23	AVJ AV2	0.00		MAR				VDMMDC10	Boppi~	Exam		0.00	0.00	0.00
20	0.0	2.95	0	F4	TWD	52 14	MVZ	0.00		WAR NDD				VDMMD610	Boppin	Exam		0.00	0.00	0.00
38	98	0.61	0	174 D/	TWD	14	AV4	0.00		MAR		Page	e 1	0.01.29.10	Boppia	Exam		0.00	0.00	0.00
		0.60	U O	F4	TWD	14	AVJ	0.00		WAK				A FTITTEO LU	BODDIN	Exam Ever		0.00	0.00	0.00
		0.86	U	F4	TWD	11	AVZ	-0.13		WAR				VLUMKOIA	acopin	тхаш		0.00	0.00	0.00

SG A Service Induced Degradation

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	8TW	LOCA	TION	UTIL	1 0	JTIL 2	PROBE	SCOPE			CRK LEN	CRK WID	CRK CIR
				===	===	10					******		= ====== Dobbin	Furam		0.00		0.00
39	21	0.42	0	P4	TWD	10	AVZ	0.00	WAR			XPMMR010	Bobbin	Exam		0.00	0.00	0.00
40	18	2.10	ů,	P4	TWD	20	AVS	0.00	WAR			XPMMR610	Bobbin	Exam		0.00	0.00	0.00
		0.43	0	P4	TWD	10	AVI	0.00	WAR			XPMMR610	BODDIN	Exam	T t	0.00	0.00	0.00
		2.30	0	182	VOL		AV 3	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	õ	P4	TWD	18	AV3	0.00	WAR			XPMMR610	Bobbin	Exam		0.00	0.00	0.00
		0 94	õ	P4	סשיד	18	AV2	0.07	WAR			XPMMR610	Bobbin	Exam		0.00	0.00	0.00
41	85	1 29	ň	P4	TWD	21	AV3	0 00	WAR			XPMMR610	Bobbin	Exam		0.00	0.00	0.00
11	90	0.57	ň	D4	TWD	13	203	0.06	WAR			XPMMR610	Bobbin	Exam		0.00	0.00	0.00
11	90	0.37	õ		TWD	15	AVJ	0.00	WAR			XPMMR610	Bobbin	Fyam		0.00	0.00	0.00
11	52	1 10	ň	D4	TWD	20	202	0.00	WAR			XPMMR610	Bobbin	Evam		0.00	0.00	0.00
41	03	0.50	õ		TWD	12	AVA	0.10	WAD			XPMMR610	Bobbin	Evan		0.00	0.00	0.00
41	95	0.50	õ	гч D/	TWD	14	743	0.10	WAR			VDMMD610	Bobbin	Evan		0.00	0.00	0.00
41	0.4	0.00	õ	F 4 D /		15	7174	0.00	WAR			VDMMD610	Bobbin	Evan		0.00	0.00	0.00
41	94	1 02	0	P 4 D 4	TWD	27	7172	0.00	WAL			VDMMD 610	Bobbin	Exam		0.00	0.00	0.00
		1.93	0	F4 D4	TWD	21	707	0.00	WAL			VDMMD610	Bobbin	Exam		0.00	0.00	0.00
10	24	1.22	0	P4 D4	TWD	21	AV2 7172	0.00	WAL			VDMMD610	Bobbin	Exam		0.00	0.00	0.00
42	24	0.83	0	P4	TWD	21	AVJ	0.04	WAR			XPMMR010	Bobbin	Exam		0.00	0.00	0.00
		1.10	0	170	TWD	21	AVZ	0.00	WAR			C10VD	Deze	Exam	Tatos	0.00	0.00	0.00
	0.1	0.04	93	1/6	VOL	0	AVJ	0.00	WAR			VDWDC10	Debbin	Special	inter	0.00	0.00	0.00
42.	81	0.37	0	P4	TWD	8	AV4	0.03	WAR			XPMMR010	Bobbin	Exam		0.00	0.00	0.00
		0.60	0	P4	TWD	12	AVZ	0.03	WAR			XPMMR610	Bobbin	Exam		0.00	0.00	0.00
42	85	0.93	0	P4	TWD	1/	AV3	0.18	WAR			XPMMR610	BODDIN	Exam		0.00	0.00	0.00
	0.1	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	AV 3	0.00	WAR			XPMMR610	Bobbin	Exam		0.00 -	0.00	0.00
43	23	0.65	U	P4	TWD	15	AV2	0.00	WAR			XPMMR610	Boppin	Exam		0.00	0.00	0.00
		0.45	0	P4	TWD	10	AVI	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	24	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	Р4	TWD	17	AV2	0.00	WAR			XPMMR610	Bobbin	Exam		0.00	0.00	0.00
44	31	0.59	0	Р4	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	P 4	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	Ō	P4	TWD	17	AV3	-0.06	WAR			XPMMR610	Bobbin	Exam		0.00	0.00	0.00
45	91	1.19	õ	P4	TWD	21	AV4	0.00	WAR			XPMMR610	Bobbin	Exam		0.00	0.00	0.00
		0.84	õ	P4	TWD	17	AV3	0.00	WAR		Page	12 pt 29 10	Bobbin	Exam		0.00	0.00	0.00
		0.85	õ	P4	רשיד	17	AV2	0.00	WAR		•	XPMMR610	Bohhin	Exam		0.00	0.00	0.00
		5.05	v	- 1	1.40	÷ '		5.00	*** ***				2000211					
06/29/09 14:51:52 Component: S/G A

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SG A Service Induced Degradation

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATI	N	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	Р4	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	Р4	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 AREVA NP Inc Customer Name: Catawba Nuclear Station Unit 2 06/29/09 14:53:25 Component: S/G B

SG B Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	\$TW	LOCA	TION			UTIL	1	UTIL	2:	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
											at the s) aciit 465						
1	0	5.25	42	22	SAL		TER	000							PTUX P	Tupesheet Exam	0.00	0.00	0.00
Ц.	8	0.29	32	44	SAL		TER	0.09							610XP	Tubesheet Exam	0.00	000	0.00
1	10	5: 62	38	22	SAL		TEH	0.24							610XP	Tubesneet Exam	0.00	0.00	0.00
1	.1.6	10.80	25	42	SAL		TEH	0.15							61UXP	Tubesheet Exam	0.00	0.00	0.00
1	25	3.27	3.9.	P1	SCI		TEH	0.01							+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		20.61	17	82	SCI		TEH	0.14			r_ 12.				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		TER	0.21							610XP	Tubesheet Exam	0.00	0.00	0.00
		5.48	33	Pl	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	.0.0.0	0.00	0.00
		30.96	10	82	SCI		TEH	0.07							610XP	Tubesheet Exam	0.00	0.00	0.00
	<u></u>	8.88	26	P.1	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	-3`4	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	5'0.	SCI		TEH.	0.32							610XP	Tubesheet Exam	0.00	0.00	000
		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
		2175	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
ľ	:62	0.19	127	3	NQI		TSC	1.48	NDF	by	GTEAN	50	na.		EC610LLMC-2	Bobbin Exam	0.00	0.00	000
		3.32	37	P.1	SCI		TEH	0.10		1	1	00	i na	100	+MPT610RPC3C	Misc RPC	0.00	0.00	0.00
		6.83	22	2	SCI		TEH	0.21			•		:	₫, "	610XP	Tubesheet Exam	0.00	0.00	000
		2.66	43	P1	SCI		TÉH	0.09			IV		OR		+PT610RPC3C	Misc RPC	0.20	0.52	79.00
1	63	5.12	-39	P.1.	SCI		TEH	0.09			•••				+MPT610RPC3C	Misc RPC	0.0	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
<u>n</u> .	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	000	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	MAĮ		TEH	0.22							610XP	Tubesheet Exam	0.00	0.00	0.00
2	36	2.36	14	190	SAI		TEH	0-22							610XP	Tupesneet Exam	000	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	Tupesheet Exam	0.00	0.00	0.00
2	70	2.04	28	6	SAI		TEH	0.29							610XP	Tupesheet Exam	0.00	0.00	
2	76	2.36	13	178	MAI		TEH'	0-25							610XP	Tupesneet Exam	0.00	0.00	
2	77	2.25	18	6	SAI		TEH	0.14							610XP	Tubesneet Exam	0.00	0.00	0.00
2	78	2.04	35	6	MAI		TEH	0.18							PTOXE	Tupesneet Exam;		0.00	0.00
2	79	3.91	15	142	MAI		TEH	0.11					Pana	11	S of 20	Tupesneet Exam	000	0.00	0.00

Page 1 of 5

AREVA NP Inc Customer Name: Catawba Nuclear Station Unit 2

06/29/09 14:53:25 Component: S/G B

SG B Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND %TW	LOCATI	ON:	UTIL	1	UTIL	2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
:0`====			24	110	jejenie čejeje Majiti	nedebaet Neu:			a zja j	-essee		610VP	Tubecheet Fyam		0 00	0.00
2	02	3.00	21	410.	MAT	TER TER	0.22					61020	Tubesheet Exam	0.00	0,00	0.00
4	83	4.94	31	ĉ	CAL	150	0.22					610YP	Tubesheet Exam	000	0.00	0.00
; 2 ,	8:4	4 11	50	100	SAL	150	0.11					C1 OV P	Tubesheet Exam	0.00	0.00	0.00
Z	85	2.12	24	122	MAI	150	0.11					CIONF	Tubesheet Exam	0.00	0.00	0.00
2	92	1.92	29	90	SAL	TER	0.03					CLOVE	Mubaabaat Exam	0.00	0.00	0.00
-2	93	3.69	14	14	SAL	TEH	0.02					610XP	Fubesheet Exam	0.00	0.00	0.00
2	95	4.33	32	14	SAL	TEH	0.06					610XP	Nubesheet Exam	0.00	0.00	0.00
2	-98	2.70	38	90	SAL	TEH	0.09					OLUXP CLOVP	mutecheet Exam	0.00	0.00	0.00
-3	14	1.84	14	154	SAL	TEH	0.09					610XP	Tubesheet Exam	0.00	0.00	0.00
-3	21	6.07	28	42	SAL	тен	0.21					OLUXP CIONP	Tubesheet Exam	0.00	0.00	0.00
3	24	4.53	3.6	42	SAI	TEH	0.07					61UXP	Tubesneet Exam	0.00	0.00	0.00
3	25	2.71	21	6	SAL.	TEH	0.12					OTUXP	Tubesneet Exam	0,00	0.00	0.00
:3	29	6.45	26	42	SAL	TEH	0.27					6 LUXP	Tubesneet Exam	0.00	0.00	0.00
3	3.0	2.03	27	26	MAI	TEH	0.10					61UXP	Tubesneet Exam	0.00	0.00	0.00
.3	32	1.88	79	22	SAI	TEH	0.10					610XP	Tubesneet Exam	0.00	0.00	0.00
.3	33	3.24	33	38	SAI	TEH	0.15					610XP	Tubesneet 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	SAL	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	0,0	0.00	0.00
. 3 [°]	78	7.13	44	106	SAI	TEH	0.49					610XP	Tubesheet Exam	0.00	0.00	0.00
3	7.9	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	.0.0.0	0.00
3	9.5	0.68	20	6	SAI	TEH	0.,09					610XP	Tubesheet Exam	0.0	0.00	0.00
3:	99	2.25	39	186	SAI	TEH	0.06					610XP	Tubesheet Exam	0.00	0.00	000
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	ŜAI	TEĤ	0.22					610XP	Tubesheet Exam	0.00	0.00	0.00
4	29	3.73	40	22	SAI	TEH	0.03					610XP	Tubesheet Exam	000	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	SAİ	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	000	000
4	78	2.55	30	178	MAI	TEH	0.18					610XP	Tubesheet Exam	0.00	0.00	0.00
.а. А.	79	6 67	34	1.82	MAT	TEÄ	0.46					610XP	Tubesheet Exam	0.00	0.00	0.00
ά.	80	510	20	118	SAI	TEH	0.25					610XP	Tubesheet Exam	0.00	0.00	0.00
Δ.	83	2 68	34	6	SAT	TEH	0.09					610XP	Tubesheet Exam	0.00	0.00	0.00
1	92	0 68	52	86	SAT	TEH	0.11					610XP	Tubesheet Exam	0.00	0.00	0.00
4	95	3,10	27	1:02:	SAT	TEH	006					610XP	Tubesheet Exam	0.00	0.00	0.00
<u>,</u>	31	2 79	35	42	SAI	TEH	0.07					610XP	Tubesheet Exam	0.00	0.00	0.00
5	14	9.07	16	146	SAT	TEĤ	0.17					610XP	Tubesheet Exam	0.00	0.00	0.00
5	76	6 94	44	6	MAT	TEH	0.20					610XP	Tubesheet Exam	0,00	0.00	0.00
5	79	4 08	29	1.02	SAT	TEH	0.15					610XP	Tubesheet Exam	0.00	0.00	0.00
5	80	7.92	27	122	MAT	TEH	0.42					610XP	Tubesheet Exam	0.00	0.00	0.00
5	91	5 30	44	106	MAT	TEH	0 - 35					610XP	Tubesheet Exam	0.00	0.00	0.00
2	02	5.07	32	26	CAT	TEH	000					610XP	Tubesheet Exam	0.00	0.00	0.00
5	02	1	17	1.02	SAT	TEH	0.22					610XP	Tubesheet Exam	000	0.00	0.00
5	106	3 05	36	90	SAT	TEH	0.17					610XP	Tubesheet Exam	0.00	0.00	0.00
6	44	2 93	15	6	SAT	TEH	012					610XP	Tubesheet Exam	0.00	0.00	0.00
ŝ	77	7 83	1.6	17.0	MAT	TEH	0.12					610XP	Tubesheet Exam	0.00	0.00	0.00
D C		5.56	.29	00	SAT	TEH	0.15					610XP	Tubesheet Exam	0. Ŏ0	0.00	0.00
jo c	00	6 10	20	86	SAT	TEH	0.22					610XP	Tubesheet Exam	0.00	0.00	0.00
0	0 U 03	7 72	29	1.0.2	SPT	TEH	0.22					610XP	Tubesheet Exam	0.00	0.00	0.00
D.	01	1.30	107	102	SAT	724	0.22					610XP	Tubesheet Exam	0.00	0.00	0.00
0	02	4 02	104	00	SAL	1 1011 TTTT	0.19					610XP	Tubesheet Exam	0.00	0.00	0.00
0	05	4.04	30	110	CVL		0.15					610XP	Tubesheet Exam	0.00	0.00	000
6	9.0	U. 17	29	718	SHI	1.6.0	V			Page	e 14	4 of 29	and a second			

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AREVA NP Inc Customer Name: Catawba Nuclear Station Unit 2: 06/29/09 14:53:25 Component: S/G B

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ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCA	TION	UTIL	1 1	JTIL 2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
				· m er m .	,==`=`=	*****	د کنور کر		بحضضعب	ಷಷಣ್ಣ						-======
7	34	2.83	23	38	SAI		TER	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	Tupesheet Exam	0.00	000	0.00
÷7	74	0.28	13.6	P1	NOT		038	-0.72				EC610LIMC-Z	Bobbin Exam	0.00	0.00	0.00
	** * .	0.50	6	154	7100	15	038	-0 72	WAR			610YP	HI and CL Special	r 0.30	0.22	34.00
7	.77	5 28	20	6	C A.T	14.0	TERU	0.03				61020	Tuboshoot Evan	0.00	0.22	0 00
	30	0 07	2.2	6	MAT		- TEH	0.05				CI OVD	Tubesneet Exam	0.00	000	0.00
ł.	12	0.94	25.	10	PIAT		1 En	0.55				CLONE	Tubesneet Exam	0.00	0.00	0.00
1	80	4.96	22	180	MAI		тен	0.18				61UXP	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	<u>0</u>	90	TWD	13	05H	-0.60	WAR			61.0XP	HL and CL Special	C 0.00	1.18	180.00
		0.43	8.9	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	000	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	SAT		TEH	0 21				610XP	Tubesheet Exam	0 00:	0.00	0.00
	63	3 70	7	130	CAT		TEU	0 00			•	610YP	Tubesheet Evam	0 00	0.00	0.00
0	64	2 74	13	166	CAT.		TEU:	0 15				610VP	Tubesheet Evam	0.00	0.00	0.00
:0 D	00	10 99	10	100	UNT.		T-EH	0.10				CLOVE	Tubesheet Exam	0.00	0.00	0.00
8	8U 01	10.62	30	102	MAL		TER	0.03				CIOND	Tubesheet Exam	0.00	0.00	0.00
8	81	2.37	24	102	SAL		TEH	0.15				610XP	Tudesneet Exam	0.00	0.00	0.00
8	82	3.03	27	102	SAL		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	8.6	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	SAT		TEH	0 1.5				610XP	Tubesheet Exam	0.00	0.00	0.00
ā	78	4 14	33	186	MAT		TEH	0.36				610XP	Tubesheet Exam	0.00	0.00	0.00
0	22	3 74	20	1.2.2	CAT		TTTL.	0.18				610XP	Tubesheet Exam	0.00	0 0 0	0 00
10	02	4 1 2	24		CAT		neu ren	0.12				610VP	Tubosheet Eyam	0.00	0 00	0.00
3	20	4.13	3.4	1.0	DAL		1 PU	0.12				GTORE:	Tubesheet Exam	0.00	0.00	0.00
τŪ	29	3.24	134	10	SAL.	-	1.5.4	0.14	173.0			CIONE	Tubesheet Exam	0.00	0.10	20.00
10	50	0.53	0	4.9.4	TWD	1	0.4 H	-0.73	WAR			6TUXP	HL and CL Special .	0.29	0.19	29.00
		0.40	125	FT.	NOT.		04H	-0.66				XPMMR610	RODDIN Fram	0.00	0.00	0.00
1.0	64	10.72	38	42	SAI		TEH	0.06				6TOX5	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		TER.	0.09				610XP	Tubesheet Exam	0.00	0.00	0.00
i 1	70	7.47	28	8.6	SAT		TEH	0.24				610XP	Tubesheet Exam	0.00	0.00	000
11	77	9 65	43	86	MAT		TEH	0.18				610XP	Tubesheet Exam	0.00	0.00	0.00
3:1	78	11 56	32	174	SAT		TEH	0 12				610XP	Tubesheet Exam	0.00	0.00	0.00
⊥ à:n.	87	13 29	37	1.30	C D T		TEH	0.20				610XP	Tubesheet Exam	0.00	0.00	0.00
1.2	35	0.30	55 G	1:00	.0011.0-	: A:	110	-0.27	WAP			610XP	HL and CL Special 1	0.30	0.28	43.00
T.C.	55	0.50	.V.	30	THO	7 9 1	110	- v.10//,	Sand).			V DMMD 610	Bobbin Evan	0 00	0.00	0 00
27 m		0.34	120	3	,NQ1		110	-11.3				CINND	Suboahaat Evan	0.00	0.00	0.00
12	36	3.65	24	6	SAL		TER	0.33				OTUXE	Bubesheet Exam	0.00	0.00	000
12	64	9.55	32	22	SAI		TEH	0.21				OT OXP	TUDESNEET EXAM	0.00	0.00	0.100
12	92	20.43	21	150	SAI		TEH	0.19				0TOXP	Tupesneet Exam	0.00	0.00	000
13	63	2.28	27	10	SAI		TEH	0.18				610XP	Tubesheet Exam	0.00	0.00	0.00
13	7.0	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
1'5	36	5.01	36	6	SAI		TEH	0.09				610XP	Tubesheet Exam	0.,00	0,.00	0.00
15	56	1.39	0	P.4	TWD	22	AV4	0.00	WAR			XPMMR610	Bobbin Exam	0,00	0.00	0.00
15	69	5.56	30	74	MAT		TEH	0.18				610XP	Tubesheet Exam	0.00	0.0.0	0.00
15	20	2 37	36	142	SAT		TEH	0.09				610XP	Tubesheet Exam	0.00	0.00	0.00
16	45	3 96	13	102	MAT		TÈÈ	0.1.9				610XP	Tubesheet Exam	0.00	0.00	0.00
10	ĉA	3.00	10	20	CAT			0 1 2				610XP	Tubesheet Exam	0.00	0.00	0.00
10	04	3.200	<u></u>	<i>1</i> : U .	ORT			, v , <u>1</u> 4			Page 15	of 29				a and the sector

SG B Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	\$TW	LOCA	TION	UTIL	1	UTIL	ž.	PROBE	SCOPE	CRK. LEN	CRK WID	CRK CIF
<u> </u>			≝≝≈		###`=		'air 2121		n (sesiai		-+=+4	===		ي ي م ي م ي م ي م ي م ي م ي م ي م ي م ي	*****		
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	8.6	SAI		02H	0.30					610XP	Tubesheet Exam	0.00	0.00	0.00
		0.14	110	3	SAI		02H	0.39	IV				+PT610RPC3C	Misc REC	037	0.16	24.00
25	31	1.91	35	106	SAI		TEH	027					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		TËË	0.06	IV	:	OR		+PT610RPC3C	Misc RPC	0.23	1.08	166.00
		15 34	21.	78	SCT		TEH	0, 1,5;					610XP	Tubesheet Exam	0-00	0.00	0.00
29	5.9	6 44	75	146	SAT		TEH	0.29					610XP	Tubesheet Exam	0.00	0.00	0.00
27	60	1 73	0	PA	משיד	18	21/2	0.24	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
20	2.1	2 31	34	102	SAT	÷0,	TTT L	0.15					610XP	Tubesheet Exam	0.00	0.00	0.00
20	104	1.10	5	DA	TWD	1.4.	21/1	-0.06	MAR				XPMMR610	Bobbin Exam	0 00	0.00	0.00
20	104	1 57	.0. Å	DA	THE	1.9	71/3	000	MAR				XPMMR610	Bobbin Exam	0 00	0.00	0.00
20	102	1.57	05	0 A	VOT	10.	.5.121	015	WAR				610XP	liBend Special Inter	0 00	0 00	0.00
52	102	0.30	35	50 D 4	TO MOL	1.1.	717.1	0.15	MAD				YDMMD610	Bobbin Evam	0 00	0.00	0.00
20	1:0.2	0.04	v.	E 4 D 4	TWD.	16	75V.L	0.00	MAD)				VDMMD 610	Bobbin Evan	0.00	0.00	0.00
32	103	1.11	0	P.4	TWD	10	AVZ	.0	WAN				VDMDC10	Bobbin Exam	0.00	0.00	0.00
		0.73	0	2,4	TWD	12	AV3	-0.21	MAR				YDMMDC10	DODDIIL EXam	0.00	0.00	0.00
	a' a	0.90	Ų.	24	TWD	1.4	AV4	0.09	WAR				CHOND	Bubachaot Ruam	0.00	0.00	0.00
33.	56	5.32	21	142	SAT		TEH	0.33					CLOXE CLOXE	Fubesheet Exam	0.00	0.00	0.00
36	19	2.89	37	182	SAI		TEH	0.:19					OTOXP.	Tubesneet Exam	0.00	0.00	0.00
36	98	0.71	0:	P4	TWD	11	AV4	0.00	WAR				XPMMR610	BODDIN Exam	0.00	0.00	0.00
36	99	0.80	0	P4	TWD	10	AV4	000	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
37	16	0.69	0	142	TWD	11	05H	-0.72	WAR				61UXP	HL and CL Special L	0.33	0.10	2,7.00
		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	Ó	P4	TWD	11	AV2	-0.12	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
39	5.9	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	Ö	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	ö	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	ō	P4	TWD	11.	AV4	-0.24	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
.48	75	0 42	ō	P4	TWD:	8	AV1	0.03	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
	.,	0.56	64	166	VOL	7	AV1	0.00	WAR				610XP	UBend Special Inter	000	0.00	0.00
		0.25	ñ.	P24	ាលា	9	AV2	-0.03	WAR				610XP	UBend Special Inter	0.00	0.00	0.0.0
		0.24	ñ.	- 2 4 D 0	7905	<u>a</u> .	AV2	0 09	WAR				610XP	UBend Special Inter	0.00	0.00	0.00
ΪD.	61	0.424	0	225	TWD	1.6	21/1	0.03	WAR				610XP	UBend Special Inter	0.00	0.00	0.00
4,2	101	ດັ່ງງ	.0.	P.C.)	100	à	AVT	0.09	WAR				610XP	UBend Special Inter	0.00	0.00	0.00
140	-	0.22	.0	63	IWD.	1.2	21/1	40.322	WAR				610XP	UBend Special Inter	0.00	0.00	0.00
49	1.1	0.33	0	524	TWD	10	AV1	- 0. : 0.3:	WAR				610XP	UBend Special Inter	0.00	0.00	0.00
		0.28	Ú,	r 9	TWD	τV	WA'T	005	N. C.C.					soona opoolaa huova		15 N. N. T. T.	

Total Tubes : 190 Total Records: 230

06/29/09 14:53:25 Component: S/G B

SG B Service Induced Degradation

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	UT	ΓL.	1	UTIL	2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR.
-====				-	===		************************	ವಲ್ ಎದೆಡು	dina 🖬		:=====	===				بججيج وحرج	

06/29/09 14:55:01 Component: S/G C

SG C Service Induced Degradation

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCA'	TION	 UTIL	1	UTIL	2	PROBE	SCOPE		CRK LEN	CRK WID	CRK CIR
1	= ==== 6	3.34	24	90	SAT		TEH	0.15	 				610XP	Tubesheet Exam		0.00	0.00	0.00
1	19	2.15	30	10	SAT		TEH	0.20					610XP	Tubesheet Exam	ı	0.00	0.00	0.00
ī	21	1.51	106	118	SAT		TEH	0.33					610XP	Tubesheet Exam	ì	0.00	0.00	0.00
â	51	2 37	55	142	SAT		TEH	0 12					610XP	Tubesheet Exam	1	0.00	0.00	0.00
5	10	3 01	32	178	CAT		75U	0 21					610XP	Tubesheet Evan	•	0.00	0.00	0 00
5	51	2 90	50	166	CAT		1511 TCU	0.21					610YP	Tubesheet Exam		0.00	0.00	0.00
2	72	2.90	50	74	THE	11	041	-0.71	WAD				610XP	HI and CL Snee	i ial T	0.00	0.00	35 00
'	12	0.37	0	74 D1	NOT	11	041	-0.71	WAL				ECGIOIIMC-7	Bobbin Euron	Jar I	0.25	0.23	33.00
10	0.0	0.24	90	120	NOT		041	-0.38					CIOND	BODDIN EXam		0.00	0.00	0.00
10	80	6.43	53	138	MAL		TEH	0.09					610XP	Tubesheet Exam	1	0.00	0.00	0.00
22	70	2.48	32	170	SAI		TEH	0.09					61UXP	Tubesneet Exam	1.	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 Spec	ial I	0.30	0.20	31.00
		0.35	0	142	TWD	8	18C	0.58	WAR				610XP	HL and CL Spec	ial 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	Ρ4	TWD	16	AV2	-0.15	WAR			·	XPMMR610	Bobbin Exam		0.00	0.00	0.00
28	11	0.47	0	Ρ4	TWD	10	AV2	0.00	WAR				XPMMR610	Bobbin Exam		0.00	0.00	0.00
28	105	1.24	0	P4	TWD	19	AV 3	0.00	WAR				EC610LLMC-Z	Bobbin Exam		0.00	0.00	0.00
29	10	0.64	0	Ρ4	TWD	13	AV3	0.18	WAR				XPMMR610	Bobbin Exam		0.00	0.00	0.00
		0.32	0	Р4	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	Ō	P4	TWD	13	AV2	0.00	WAR				XPMMR610	Bobbin Exam		0.00	0.00	0.00
29	14	0 36	ñ	P4	TWD	7	AV3	0.00	WAR				EC610LLMC-2	Bobbin Exam		0.00	0.00	0.00
30	15	0 91	ň	P4	TWD	17	AV4	0.08	WAR				EC610LLMC-Z	Bobbin Exam		0.00	0.00	0.00
31	12	1 20	ñ	DΔ	TWD	19	AV3	0 00	WAR				XPMMR610	Bobbin Exam		0 00	0 00	0 00
33	12	0 90	ň	DA	TWD	16	AV2	0.00	WAR				XPMMR610	Bobbin Exam		0.00	0.00	0.00
JJ	12	1 01	õ	D1	TWD	17	AV2 AV1	0.00	WAR				YPMMR610	Bobbin Exam		0.00	0.00	0.00
22	14	1.01	0	E4 D/		16	7172	-0.16	WAL MAL				ECGIOLIMC-7	Bobbin Exam		0.00	0.00	0.00
22	14	0.96	0	P4 D4		10	AVZ	-0.18	WAR				ECGIOLIMC-Z	Bobbin Exam	•	0.00	0.00	0.00
		0.65	0	P4	TWD	11	AV3	0.00	WAR				ECOIULLMC-2	BODDIN Exam		0.00	0.00	0.00
33	55	1.39	0	P4	TWD	23	AV3	-0.03	WAR				XPMMR610	BODDIN Exam		0.00	0.00	0.00
33	100	0.34	0	P4	TWD	8	AV2	-0.03	WAR				EC610LLMC-Z	BODDIN Exam	- .	0.00	0.00	0.00
33	101	0.37	91	185	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	ı	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	ñ	P4	TWD	14	AV4	0.00	WAR				XPMMR610	Bobbin Exam		0.00	0.00	0.00
		1 23	ñ	P4	TWD	20	AV2	-0.09	WAR				XPMMR610	Bobbin Exam		0.00	0.00	0.00
		0 55	ñ	D/	TWD	11	AV1	0.00	WAR				YPMMR610	Bobbin Exam		0.00	0 00	0.00
20	22	0.33	ň	ГЧ D/	TWD	10	702	0.00	WAD				FC610LLMC-7	Bobbin Evam		0.00	0.00	0.00
50	25	0.43	0	F4	TWD	10	AV2 AUA	0.00	WAL				ECCLOLINC-7	Bobbin Exam		0.00	0.00	0.00
20	74	0.33	0	F4 D4	TWD	16	AVA	0.03	WAN				VDMMD610	Bobbin Evan		0.00	0.00	0.00
38	34	0.98	0	P4	TWD	10	AVZ	0.17	WAR				XPMMR610	Bobbin Exam		0.00	0.00	0.00
38	97	1.16	0	P4	TWD	19	AVZ	0.00	WAR				EC610LLMC-Z	Bobbin Exam		0.00	0.00	0.00
38	99	1.43	Ð	P4	TWD	22	AV3	0.06	WAR				EC610LLMC-Z	Bobbin Exam		0.00	0.00	0.00
		2.66	0	Р4	TWD	31	AV4	-0.06	WAR				EC610LLMC-Z	Bobbin Exam		0.00	0.00	0.00
39	17	0.37	0	Ρ4	TWD	8	AV1	0.00	WAR				XPMMR610	Bobbin Exam		0.00	0.00	0.00
39	18	0.79	0	Ρ4	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 Spec	ial 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	Ō	P4	TWD	14	AV2	0.00	WAR				EC610LLMC-Z	Bobbin Exam	2	0.00	0.00	0.00
		0.61	ō	P4	TWD	12	AV3	-0.03	WAR		Pac	je 1	80129_LMC-7	Bobbin Exam		0.00	0.00	0.00
		1 10	õ	P4	TWD	18	AV4	0 22	WAR			-	EC610LLMC-7	Bobbin Exam		0.00	0.00	0.00
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SG C Service Induced Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCAT	ION	UTIL	1	UTIL	2	PROBE	SCOPE		CRK LEN	CRK WID	CRK CIR
≈==≈	====	======	===	===	*==	===		**********************	=====	*==	=====	===	**********			======		======
40	20	1.05	0	Ρ4	TWD	18	AV2	0.00	WAR				XPMMR610	Bobbin	Exam	0.00	0.00	0.00
40	22	0.64	0	Ρ4	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	Р2	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

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06/29/09 14:56:49 Component: S/G D

SG D Service Induced Degradation

ROW	COL	VOLTS	DEG	CHN	IND	8TW	LOCA	TION		UTIL	1	UTIL 2	2 P	ROBE	SCOPE		CRK LEN	CRK WID	CRK CIR
1	84	2 74	=== 45	au	=== C D T	===	===== TTU	0 21			==		== =	10VD					
Б	28	2.74	56	10	SAT		1511 TEU	0.21					6	TOXP	Tubesn	leet Exam	0.00	0.00	0.00
15	80	0.36	125	ъ1	NOT		030	_0 00					0 1	CCLOTING R	Tubesn	leet Lxam	0.00	0.00	0.00
15	00	0.30	0	122	TWD	11	030	-0.90		WAD			с С		BODDIN	LEXAM	0.00	0.00	0.00
		0.09	0	122	TWD	7	030	-0.02		WAR			0	TOXP	HL and	CL Special I	0.30	0.41	63.00
17	55	0.39	ñ	166	TWD	ć	010	-0.75		WAL			0	TOXP	HL and	CL Special I	0.27	0.28	43.00
17	55	0.49	100	100	NOT	0	010	0.40		WAR			0	CC10TING R	HL and	CL Special I	0.30	0.32	48.00
25	107	0.29	109	P1 DA	TUNN	11	7172	_0.49		MAD			5	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
25	107	1 22	õ	E4 D4	TWD	21	AVS	-0.19		WAR			5	COLOLIMC-Z	BODDIN	Exam	0.00	0.00	0.00
27	107	1.33	0	P4 D4	TWD	21	AVZ	0.30		WAR			E	COIDTTWC-2	BODDIN	Exam	0.00	0.00	0.00
21	107	1.03	õ	F4 D4	TWD	11	AVZ	0.27		WAR			X	PMMR610	BODDIN	Exam	0.00	0.00	0.00
20	10	0.47	ŏ	P4	TWD	11	AVA	0.00		WAR			5	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
20	71	1 10	8	P4 D4		10	AVS	0.12		WAR			E	COLUDIMC-2	BODDIN	Exam	0.00	0.00	0.00
20	105	1.19	211	P4	TWD	19	AVZ	0.00		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
20	103	1.49	211	P4	TWD	21	AVZ	0.09		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
29	104	0.77	0	P4	TWD	12	AVZ	0.00		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
30	102	1.20	0	P4	TWD	20	AV3	0.00		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
32	90	0.78	100	24	TWD	12	AVZ	0.30		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
22	10	0.08	100	38	VOL	10	AV2	0.00		WAR			6	TOXP	UBend	Special Inter	0.00	0.00	0.00
33	13	0.74	0	P4	TWD	12	AV4	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
		1.08	Ů,	P4	TWD	20	AV 3	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
~~		1.64	U O	P4	TWD	25	AV2	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
33	15	0.80	0	P4	TWD	16	AV4	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
33	79	0.82	U O	P4	TWD	16	AV2	0.00		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
33	81	0.60	0	P4	TWD	13	AV2	0.15		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
~ 4		0.53	65	10	VOL	~ ~	AV2	0.03		WAR			6	10XP	UBend	Special Inter	0.00	0.00	0.00
34	98	1.24	0	P4	TWD	20	AV2	0.00		WAR			Х	PMMR610	Bobbin	Exam	0.00	0.00	0.00
34	99	1.02	0	P4	TWD	1/	AV2	0.00		WAR			Х	PMMR610	Bobbin	Exam	0.00	0.00	0.00
34	100	0.89	0	P4	TWD	17	AV3	0.00		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
35	14	0.91	0	P4	TWD	18	AV4	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
		3.13	0	P4	TWD	34	AV2	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
35	17	10.25	40	114	SCI		TEH	0.20					6	10XP	Tubesh	eet Exam	0.00	0.00	0.00
		3.33	44	P1	SCI		TEH	0.15		IV			+	PT610RPC3C	Misc R	PC	0.23	0.32	48.00
35	43	5.81	55	50	SCI		TEH	0.23					6	10XP	Tubesh	eet Exam	0.00	0.00	0.00
		2.65	48	P1	SCI		TEH	0.09		IV			+	PT610RPC3C	Misc R	PC	0.30	0.44	67.00
35	96	0.48	0	P4	TWD	10	AV2	0.00		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
36	16	0.77	0	₽4	TWD	16	AV4	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
		0.77	0	P4	TWD	16	AV3	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
		2.93	0	P4	TWD	33	AV2	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
		0.59	0	P4	TWD	13	AV1	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
36	65	1.64	0	P4	TWD	24	AV3	0.18		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
36	93	1.18	0	P4	TWD	20	AV2	-0.06		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
36	94	0.70	0	P4	TWD	14	AV2	0.18		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
		0.54	0	P4	TWD	11	AV1	0.00		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
36	96	0.80	0	P4	TWD	14	AV3	0.00		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
		1.21	0	P4	TWD	19	AV2	0.00		WAR			X1	PMMR610	Bobbin	Exam	0.00	0.00	0.00
36	97	1.28	0	P4	TWD	19	AV2	0.00	•	WAR			XI	PMMR610	Bobbin	Exam	0.00	0.00	0.00
36	98	0.91	0	₽4	TWD	15	AV3	0.00		WAR			X	PMMR610	Bobbin	Exam	0.00	0.00	0.00
36	100	0.63	0	P4	TWD	12	AV3	-0.12		WAR			XI	PMMR610	Bobbin	Exam	0.00	0.00	0.00
		1.41	0	P4	TWD	21	AV3	0.10		WAR			XI	PMMR610	Bobbin	Exam	0.00	0.00	0.00
37	17	0.97	0	P4	TWD	18	AV4	0.11		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
		1.16	0	P4	TWD	20	AV2	0.00		WAR			E	C610LLMC-Z	Bobbin	Exam	0.00	0.00	0.00
38	18	1.44	0	P4	TWD	22	AV4	0.00		WAR			XI	PMMR610	Bobbin	Exam	0.00	0.00	0.00
		2.00	0	P4	TWD	26	AV2	0.00		WAR			XI	PMMR610	Bobbin	Exam	0.00	0.00	0.00
38	19	0.54	0	P4	TWD	12	AV2	0.00		WAR			XI	PMMR610	Bobbin	Exam	0.00	0.00	0.00
38	20	0.44	0	P4	TWD	9	AV4	0.00		WAR			XI	PMMR610	Bobbin	Exam	0.00	0.00	0.00
		0.83	0	P4	TWD	15	AV2	-0.06		WAR			XI	PMMR610	Bobbin	Exam	0.00	0.00	0.00
38	21	0.62	0	P4	TWD	12	AV2	0.12		WAR		-	~XI	PMMR610	Bobbin	Exam	0.00	0.00	0.00
38	26	0.35	0	Ρ4	TWD	8	AV2	0.00		WAR		Page	20	MMAS10	Bobbin	Exam	0.00	0.00	0.00
38	64	1.38	0	P4	TWD	21	AV2	0.30		WAR			XI	PMMR610	Bobbin	Exam	0.00	0.00	0.00

06/29/09 14:56:49 Component: S/G D

SG D Service Induced Degradation

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCAT	FION	UTIL	1	UTIL	2.	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
20	70	1 07		==== D/		20	7173		בבבב בבב: הוא ס					Bobbin Eyam	0 00	0 00	0 00
20	00	0 44	0	гч р/		20	AV3	0.00	WALL				VDMMR610	Bobbin Exam	0.00	0.00	0.00
20	90	1 /0	161	116	VOI	9	7173	0.00	MAIN				610VD	UBend Special Inter	0.00	0.00	0.00
20	55	2 03	73	1/6			702	0.00	WID D				610YP	UBend Special Inter	0.00	0.00	0.00
		2.03	13	140		12	702	-0.18	WAR				VDMMP610	Bobbin Exam	0.00	0.00	0.00
		1 02	0		TWD	24	702	0.15	MAR				YPMMR610	Bobbin Exam	0.00	0.00	0.00
20	94	0 47	õ		1110	10	202	~0.06	WAR				YPMMR610	Bobbin Exam	0.00	0.00	0.00
20	94	0.47	60	116	VOT	τu	703	-0.06	MAR				610YP	UBend Special Inter	0.00	0.00	0.00
30	01	0.37	00	D40	TWD	14	AV.3 AV/4	0.00	MAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
35	01	0.01	0		TWD	15	7.17	0.05	MAR				YPMMR610	Bobbin Exam	0.00	0.00	0.00
	-	0.02	86	162	VOL	10	AV2	-0.13	MAR				610XP	IBend Special Inter	0.00	0.00	0.00
		0.23	71	51	VOL		202	0.06	MAR				610XP	UBend Special Inter	0 00	0 00	0 00
30	90	0.02	0	D4	TWD	15	AV2	0.00	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
55	50	1 51	65	70	VOL.	10	AV2	-0.03	WAR				610XP	UBend Special Inter	0.00	0.00	0.00
30	96	1 34	0.5	DΛ	TWD	20	202	0.10	WAR				XPMMR610	Bobbin Exam	0 00	0.00	0.00
39	90	1.54	ñ	D4	TWD	12	AVJ	0.10	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
40	93	0.00	ñ	P4	TWD	13	AV2	-0.06	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
40	94	1 17	ñ	P4	TWD	19	AVS	0.00	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
10	54	1 08	ň	₽4	TWD	18	AV2	0 09	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
40	97	0 75	ñ	P4	TWD	14	AV3	0 00	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
10	27	0.79	ň	P4	TWD	14	AV1	-0.03	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	20	0.71	ñ.	P4	TWD	14	AV4	0.00	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
41	55	7.15	17	102	SAT		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	13	1	SAL		03H	0.27					RPG590C	MISC RPC	0.00	0.00	0.00
		0.37	110	1	SAL		05H	0.20					RPG590C	MISC RPC	0.00	0.00	0.00
		0.95	104	PZ0	SAL		0211	0.24					610XP	HL and CL Special I	0.00	0.00	0.00
		0.50	118	P27	SAL		0211	0.27					C10XP	H/L Array (Seabrook	0.00	0.00	0.00
41	77	0.59	/9	P19	DAL	10	702	-0.09	WAD				VDMMD610	Robbin Evan	0.00	0.00	0.00
41	11	1 42	0	P4	TWD	21	AVS	-0.08	WAR				VDMMD610	Bobbin Exam	0.00	0.00	0.00
40	22.	1.45	0	P4		21	AVZ	0.03	WAL				VDMMD610	Bobbin Exam	0.00	0.00	0.00
42	23	1.09	0	Р4 D/	TWD	25	AV4 AV2	-0.09	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
12	30	0 01	ň		TWD	18	AV2	-0.05	WAR		· ` .		XPMMR610	Bobbin Exam	0.00	0.00	0.00
12	32	0.91	õ	₽ <u>1</u>	ተዝጋ	19	AV2	-0.03	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
42	85	0.56	ñ	₽ <u>1</u>	1 M D	11	AVR	0.00	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
74	00	. 1. 01	õ	P4	ם שיד	17	AV2	0.00	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
43	22	1.27	õ	P4	TWD	21	AV4	0.30	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
		2.05	õ	P4	TWD	27	AV3	0.27	WAR				XPMMR610	Bobbin Exam	0.00	0.00	0.00
		0.54	õ	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		Pag	je 2	2 1 of x 49	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	LOCAT	ION	UTIL	1	UTIL	2	PROBE	SCOPE		CRK LEN	CRK WID	CRK CIR
====	====		===	===	===	===	=====		 =====	===	=====	===	=================	======				======
43	78	3.38	0	Р4	TWD	34	AV3	0.00	WAR				XPMMR610	Bobbin	Exam	0.00	0.00	0.00
		1.56	0	Р4	TWD	22	AV2	-0.24	WAR				XPMMR610	Bobbin	Exam	0.00	0.00	0.00
44	24	0.76	0	Р4	TWD	15	AV3	0.25	WAR				XPMMR610	Bobbin	Exam	0.00	0.00	0.00
44	46	1.46	0	Р4	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	Р4	TWD	12	AV4	-0.08	WAR				XPMMR610	Bobbin	Exam	0.00	0.00	0.00
		0.64	Ō	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	NOI		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 ~

06/29/09 15:02:32 Component: S/G A

SG A Tubesheet Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	\$TW	LOCATIO)N	UTIL	1	UTIL	2	PROBE	SCOPE	CRK LEN	CRK WID	CRK CIR
====	====		===	===	===	===		========================	=====	===		===					
7	23	3.93 4.30 3.10	36 44 31	3 54 3	MAI MAI MAI		TEH <i>TEH</i> TEH	0.27 0.14 0.09					+MPT610RPC3C 610XP +PT610RPC3C	Misc RPC Tubesheet Exam Misc RPC	0.00 D.DD 0.00	0.00 D.DD 0.00	0.00 0.00 0.00

Total Tubes : 1 Total Records: 3

SG B Tubesheet Degradation

ROW	COL	VOLTS	DEG	CHN	IND	\$TW	LOCAT	FION	 UTIL	1	UTIL	2	PROBE	SCOPE		CRK LEN	CRK WID	CRK CIR
1	6	5 25	42	22	SAT		TEH	0.06	 				610XP	Tubesheet	Exam	0.00	0.00	0.00
1	8	6 29	32	22	SAT		TEH	0.09					610XP	Tubesheet	Exam	0.00	0.00	0.00
1	10	5 62	38	22	SAT		TEH	0.05					610XP	Tubesheet	Exam	0 00	0 00	0 00
1	16	10 80	25	12	SAT		TEH	0 15					610XP	Tubesheet	Exam	0 00	0 00	0.00
1	25	3 27	20	72 D1	SUL		TEH	0 01					+MPT610RPC3C	Misc RPC		0.00	0.00	0.00
-	25	20 61	17	82	SCT		TEH	0 14					610XP	Tubesheet	Exam	0 00	0 00 .	0 00
		0 30	23	02 D1	SCT.		1511 TEU	0.03	ту				+ PT6108 PC3C	Misc RPC	DAGIN	0.26	1 02	156 00
1	20	5.30	23	г1 р1	BCI		11511 TT TU	0.19.	τv				+MPT610PDC3C	Misc PPC		0.00	0 00	0 00
Ŧ	30	0.00	27	P1 02	BCI		150	0.21					610YD	Tubesheet	Evam	0.00	0.00	0.00
		0.20 E 10	27	02 D1	CCT		1511 mpu	0.19	τv		OP		+pm610ppc3c	Misc PPC	DAGIN	0.00	0.50	77 00
1	24	2.40	22	F1 50	MAT		150	0.13	τv		UK		610YD	Tubesheet	Fyam	0.20	0.00	0 00
1	24	2.21	33	10	CAT		150 7770	0.17					610VP	Tubesheet	Exam	0.00	0.00	0.00
1	20	0.41	22	42 D1	SAL		150	0.12					+MDTG10PDC3C	Misc RPC	Exam	0.00	0.00	0.00
т	37	20 06	10	F1 00	BCI		160 7770	0.07					610VD	Tubesheet	Evam	0.00	0.00	0.00
		0 00	26	02 D1	CCT		1511 7771	0.07	T 17		O.P.		1010X1	Misc PPC	B X011	0.00	1 08	166 00
1	20	0.00 .	20	70	MAT		150 TTU	0.03	τv		0K		610YD	Tubesheet	Fyam	0.20	0 00	0 00
1	20	9.25	16	50	CAT		160	0.43					610XP	Tubesheet	Exam	0.00	0.00	0.00
1	29	4.04	70	20	MAT		TER	0.13					610XP	Tubesheet	Exam	0.00	0.00	0.00
1	40	2.21	52	20	MAI		150	0.24					CIOXF	Tubesheet	Exam	0.00	0.00	0.00
1	42	2.90	22	30	MAI		160	0.12					610XP	Tubesheet	Exam	0.00	0.00	0.00
1	43	4.1/	23	142	MAI		1 Eri	0.10					CIONE	Tubesheet	Exam	0.00	0.00	0.00
1	44	5.50	43	20	CAT		TER	0.12					CIONP	Tubesheet	Exam	0.00	0.00	0.00
1	46	9.69	21	38	SAL		TEH	0.09					INDER 10DDC2C	Mine DDC	Exam	0.00	0.00	0.00
T	50	4.54	34	PI	SCI		TER	0.10					CIOND	MISC RFC	From	0.00	0.00	0.00
		8.8/	29	2	SCI		TEH	0.28	T 17		OD		UTOYA UDWC10DDC2C	Mice DDC	EXdill	0.00	0.00	60.00
-	F A	4.28	35	PI	SCI		TEH	0.06	ΤV		OR		TPIOIURPUSC	MISC RPC		0.11	0.45	09.00
T	54	1.2/	52	PI	SCI		TER	0.00					+MPTOIURPUSC	MISC RPC	From	0.00	0.00	0.00
		5.89	25	2	SCI		TEH	0.35	-		0.0		DUCLORDODO	Tubesneet	Exam	0.00	0.00	52 00
	5.0	3.10	42	PI	SCI		TEH	0.03	TV		OR		+PTOIURPUSU	MISC RPC		0.23	0.35	55.00
T	56	4.62	32	PI	SCI		TEH	0.02					+MPTOIURPUSC	MISC RFC	Faram	0.00	0.00	0.00
		14.81	32	50	SCI		TEH	0.32	* **		~ P		DUCLORDOCC	Tubesneet	Exam	0.00	1 50	0.00
-		8.20	31	PI	SCI		TEH	0.07	ΤV		OR		+PT6IURPUSU	MISC RPC		0.20	1.39	243.00
Ŧ	57	10.61	37	PI	SCI		TEH	0.10					+MPTOIURPUSU	MISC RPC		0.00	0.00	0.00
		21.75	29	18	SCI		TEH	0.32	T 17		0.0		DUCT	Tubesheet	Exam	0.00	0.00	121 00
-	~~	10.00	39	PI	SCI		TEH	0.05	ΤV		OK		+PTGIURPUSU	MISC RPC		0.23	0.79	121.00
Ŧ	62	3.32	31	PI	SCI		TEH	0.10					+MPT6IURPC3C	MISC RPC	Decem	0.00	0.00	0.00
		6.83	22	2	SCI		TEH	0.21	***		O D		DECIODDCCC	Tubesneet	Exam	0.00	0.00	70.00
	6 0	2.66	43	PI	SCI		TEH	0.09	τv		OR		+PT6IURPC3C	MISC RPC		0.20	0.52	79.00
Ŧ	63	5.12	39	PI	SCI		TEH	0.09					+MPT610RPC3C	MISC RPC	Erren	0.00	0.00	0.00
		20.07	24	2	SCI		TEH	0.28	T T T		0.0	•	DECTORDODO	Tubesneet	Exam	0.00	1.00	162 00
-	~ ^	4.68	40	PI	SCI		TEH	0.04	τv		UR		TPIOLURPUSU	MISC RPC	Ener	0.23	1.00	102.00
1	64	1.70	55	54	SAL		TEH	0.27					610XP	Tubesneet	Exam	0.00	0.00	0.00
1	91	9.58	34	10	SAL		TEH	0.18					610XP	Tubesneet	Exam	0.00	0.00	0.00
1	96	6.34	42	22	MAI		TEH	0.09					610XP	Tupesneet	Exam	0.00	0.00	0.00
1	97	5.43	11	122	SAL		TEH	0.12					CLOXP	Tubesheet	Exam	0.00	0.00	0.00
1	99	4.58	46	186	MAL		TEH	0.06					CTOXE	Tubesneet	Exam	0.00	0.00	0.00
2	14	7.45	36	58	SAL		TEH	0.12					610XP	Tubesneet	Exam	0.00	0.00	0.00
2	27	3.73	40	22	SAL		TEH	0.11					610XP	Tubesneet	Exam	0.00	0.00	0.00
2	30	0.70	109	138	SAL		TEH	0.18					CLOXP	Tubesneet	Exam	0.00	0.00	0.00
2	33	5.08	18	186	MAI		TEH	0.24					610XP	Tubesneet	Exam	0.00	0.00	0.00
2	34	4.12	30	182	MAI		TEH	0.22					610XP	Tupesneet	Exam	0.00	0.00	0.00
2	36	2.36	14	190	SAI		TEH	0.22					610XP	Tubesneet	Exam	0.00	0.00	0.00
2	39	1.25	19	106	SAL		TEH	0.25					CTOXD CTOXD	Tupesneet	Exam Ever	0.00	0.00	0.00
2	44	8.13	24	86	SAI		TEH	0.25					CLOXP	Tupesneet	LXAM	0.00	0.00	0.00
2	70	2.04	28	6	SAI		TEH	0.29					610XP	rupesneet	LXam	0.00	0.00	0.00
2	76	2.36	13	T.18	MAI		TEH	0.25					CIOND	rupesneet	Lxam	0.00	0.00	0.00
2	77	2.25	78 18	6	SAL		TEH	0.14					CIOND	Tupesneet	LXAM Exam	0.00	0.00	0.00
2	18	2.04	35	5	MAL		TEH	0.18			Pad	ne S	4 01 29	Tubesheet	Exam	0.00	0.00	0.00
2	19	3.91	12	142	MAL		TEH	0.11			. 4		C10VD	Tubesneet	Exam	0.00	0.00	0.00
2	82	5.88	24	118	MAL		TEH	0.30					OTOXA	iddesneet	EXAIII	0.00	0.00	0.00

AREVA NP Inc Customer Name: Catawba Nuclear Station Unit 2 06/29/09 15:01:22 Component: S/G B

SG B Tubesheet Degradation

ROW	COL	VOLTS	DEG	CHN	IND	8TW ====	LOCAT	[ION =======	============	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	Evam	0.00	0.00	0.00
2	93	3.69	14	74	SAI		TEH	0.02						610XP	Tubesheet	Evam	0.00	0.00	0.00
2	95	4.33	32	74	SAI		TEH	0.06						610XP	Tubesheet	Evan	0.00	0.00	0.00
2	98	2.70	38	90	SAI		TEH	0.09						610VP	Tubesheet	Exam	0.00	0.00	0.00
3	14	1.84	14	154	SAT		TEH	0.09						610VP	Tubesheet	Exam	0.00	0.00	0.00
3	21	6.07	28.	42	SAT		TEH	0 21						610VD	Tubesheet	Exam	0.00	0.00	0.00
3	24	4 53	36	42	SAT		TEH	0.07						CLOND	Tubesheet	Exam	0.00	0.00	0.00
3	25	2 71	21	6	CAT		751	0.07						C10XP	lubesneet	Exam	0.00	0.00	0.00
ž	29	6 45	26	42	CAT		_1_011 m0	0.12						610XP	lubesneet	Exam	0.00	0.00	0.00
3	2.5	2 03	20	92	MAT		151	0.27						610XP	Tubesheet	Exam	0.00	0.00	0.00
2	20	2.00	27	20	MAI		TER	0.10						610XP	Tubesheet	Exam	0.00	0.00	0.00
3	32	1.00	/9.	22	SAL		TEH	0.10	•					610XP	Tubesheet	Exam	0.00	0.00	0.00
3	33	3.24	33	38	SAL		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	Evam	0.00	0.00	0.00
3	84	5.32	22	86	SAI		TEH	0.39						610XP	Tubesheet	Evam	0.00	0.00	0.00
3	85	1.87	24	90	SAI		TEH	0.36						610XP	Tubesheet	Fyam	0.00	0.00	0.00
3	95	0.68	20	6	SAT		TEH	0.09						610VP	Tubesheet	Exam	0.00	0.00	0.00
3	99	2.25	39	186	SAT		TEH	0.06						610VP	Tubesheet	Exam	0.00	0.00	0.00
4	14	0.91	36	42	SAT		TEH	0 12						CIONF CIOND	Tubesheet	Exam	0.00	0.00	0.00
4	27	4 70	56	154	SUL		TEN	0.06						CLOND	Tubesneet	Exam	0.00	0.00	0.00
Â	28	2 92	30	130	CAT		1 DI 1 DI	0.00						610XP	Tubesneet	Exam	0.00	0.00	0.00
1	20	2.72	40	22	CAT		TEN TEN	0.22						610XP	Tubesheet	Exam	0.00	0.00	0.00
4	29	3.73	40 21	100	DAT		TER	0.03						610XP	Tubesheet	Exam	0.00	0.00	0.00
4	10	4.11	10	102	MAT		TER	0.07						610XP	Tubesheet	Exam	0,00	0.00	0.00
4.	40	3.01	19	162	SAL		TEH	0.29						610XP	Tubesheet	Exam	0.00	0.00	0.00
4	63	3.19	26	100.	SAL		TEH	0.14						610XP	Tubesheet	Exam	0.00	0.00	0.00
4	78	2.55	30	1/8	MAL		TEH	0.18						610XP	Tubesheet	Exam	0.00	0.00	0.00
4.	79	-6.6/	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	Evam	0,00	0.00	0.00
5	79	4.08	29	102	SAI		TEH	0.15						610XP	Tubesheet	Fyam	0.00	0.00	0.00
5	80	7.92	27	122	MAI		TEH	0.42						610XP	Tubesheet	Evan	0.00	0.00	0.00
5	81	5.39	44	106	MAT		TEH	0.35						610VD	Tubesheet	Errom	0.00	0.00	0.00
5	82	5.07	32	26	SAT		TEH	0.00						CLOVD	Tubesheet	Exam	0.00	0.00	0.00
Š	83	1 90	17	102	GAT		1511 TCU	0.00		•				CLOVE	Tupesneet	Exam	0.00	0.00	0.00
Š	106	3 05	36	902	CVL		150 760	0.22						610XP	Tubesneet	Exam	0.00	0.00	0.00
6	100	2.00	15	6	CAT			0.17						610XP	Tubesheet	Exam	0.00	0.00	0.00
6	-1-1 77	2,33	16	170	DAT MAT		1 GU	0.12						61UXP	Tupesheet	Exam	0.00	0.00	0.00
6	70	1.03	70	T 10	MAL		TEH	0.12						610XP	Tubesheet	Exam	0.00	0.00	0.00
o c	19	5.50	28	90	SAL		PEH	0.15						610XP	Tubesheet	Exam	0.00	0.00	0.00
o c	80	6.10	29	86	SAI		I'EH	0.22						610XP	Tubesheet	Exam	0.00	0.00	0.00
6	81	1.36	27	102	SAI		reh	0.22					•	610XP	Tubesheet	Exam	0.00	0.00	0.00
6	82	4.02	157	86	SAI		ген	0.22						610XP	Tubesheet	Exam	0.00	0.00	0.00
6	84	4.54	41	86	SAI	5	ГEН	0.19				-	-	610XP	Tubesheet	Exam	0.00	0.00	0.00
6	86	0.77	29	118	SAI	5	ген	0.15	-			Page	e 2:	9 1 9 x 2 9	Tubesheet	Exam	0.00	0.00	0.00
7	34	2.83	23	38	SAI	5	ген	0.00						610XP	Tubesheet	Exam	0.00	0.00	0.00

SG B Tubesheet Degradation

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCA'	TION	 UTIL	1	UTIL	2	PROBE	SCOPE		CRK I	LEN	CRK WID	CRK CIR
7	39	5.85	33	130	SAT		====: TEH	0.15	 			===	610VP	Tuboshoot	Firem	=====			
7	56	5.31	25	158	MAT		TEH	0.18					610XP	Tubesheet	Exam	0.00		0.00	0.00
7	77	5 28	29	6	SAT		TEH	0.13					610VP	Tubesheet	Exam	0.00		0.00	0.00
, 7	79	8 94	25	ĕ	MAT		TEU	0.05					CIONF CIOND	Tubesneet	Exam	0.00		0.00	0.00
7	80	4 96	22	186	MAT		TEU	0.00					CIONP CIOND	Tubesneet	Exam	0.00		0.00	0.00
7	84	3 80	31	118	SVL		1 D11	0.10					CLOXP	Tubesneet	Exam	0.00		0.00	0.00
7	86	2 50	23	122	MAT		151 751	0.00					CLOXP	Tubesheet	Exam	0.00		0.00	0.00
。 。	20	2.30	55	26	CNT			0.12					610XP	Tubesheet	Exam	0.00		0.00	0.00
0	20	4.4/	32	20	DAI		TEH	0.42					610XP	Tubesheet	Exam	0.00		0.00	0.00
0	30	4.34	37	122	SAL		TEH	0.35					610XP	Tubesheet	Exam	0.00		0.00	0.00
8	39	2.32	15	26	SAL		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	Evam	0.00		0.00	0.00
9	76	8.23	12	162	MAT		TEH	0.35					610XP	Tubesheet	Evan	0.00		0.00	0.00
9	77	5.05	27	134	SAT		TEH	0.15					610YP	Tubesheet	Exam	0.00		0.00	0.00
9	78	4.14	33	186	MAT		TEH	0.36					610VP	Tubesheet	Exam	0.00		0.00	0.00
q.	82	3 74	20	122	SAT		TEU	0.18					CIOND	Tubesheet	Exam	0.00		0.00	0.00
ģ	85	4 13	34	6	SVI		TEU	0.10					610XP	Tubesneet	Exam	0.00		0.00	0.00
10	30	5 24	14	10	CVI		151	0.12					CLOND	Tubesneet	Exam	0.00		0.00	0.00
10	61	10 72	74	10	CAT		160	0.14					610XP	Tubesheet	Exam	0.00		0.00	0.00
10	76	16 62	30	17/	CAT		15H men	0.06					610XP	Tubesheet	Exam	0.00		0.00	0.00
10	70	10.02	10	120	SAL		TEH	0.19					610XP	Tubesheet	Exam	0.00		0.00	0.00
10	/8	12.40	32	138	SAL		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	/4	SAL		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	1	0.00	0.00 -
11	87	13.28	33	138	SAI		TEH	0.20					610XP	Tubesheet	Exam	0.00	1	0.00	0.00
12	36	3.65	24	6	SAI		TEH	0.33					610XP	Tubesheet	Exam	0.00	1	0.00	0.00
12	64	9.55	32	22	SAI		TEH	0.21					610XP	Tubesheet	Exam	0.00	1	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	Evam	0 00			0.00
14	43	3.92	31	146	SAT		TEH	0.24					610XP	Tuberheet	Exam	0.00		0.00	0.00
15	32	3.03	134	142	SAT		TEH	0 12					610YP	Tubesheet	Exam	0.00		0.00	0.00
15	36	5.01	36	6	SAT		TEH	0 09					610YP	Tubesheet	Exam	0.00		0.00	0.00
15	69	5 56	30	74	МАТ		TEL	0.18					CLOVE	Tubesheet	Exam	0.00		0.00	0.00
15	70	2 37	36	142	SPT		1011 TFU	0.10					CIONP CIONP	Tubesneet	Exam	0.00		0.00	0.00
16	15	2.57	12	102	MAT		TEN TEU	0.09					CLOXP	Tupesneet	Exam	0.00	(5.00	0.00
16	-1J 61	3.00	10	702	CAT		160	0.10					610XP	Tubesheet	Exam	0.00	(0.00	0.00
10	40	3.00	45	70	SAL		TER	0.12					610XP	Tubesheet	Exam	0.00	(0.00	0.00
10	49	2.60	35	38	SAL		TEH	0.24					610XP	Tubesheet	Exam	0.00	(0.00	0.00
10	04	8.50	49	14	SAL		TEH	0.41					610XP	Tubesheet	Exam	0.00	(0.00	0.00
TR	/5	13.04	T8	146	SAI	1	TEH	0.18					610XP	Tubesheet	Exam	0.00	(0.00	0.00
20	32	3.96	23	130	SAI	1	TEH	0.16					610XP	Tubesheet	Exam	0.00	(0.00	0.00
20	33	3.74	17	106	SAI	1	тен	0.22					610XP	Tubesheet	Exam	0.00	(0.00	0.00
21	33	4.35	19	122	SAI	1	TEH	0.14					610XP	Tubesheet	Exam	0.00	(0.00	0.00
21	63	4.03	33	54	SAI		тен	0.22					610XP	Tubesheet	Exam	0.00	(0.00	0.00
21	65	4.73	34	190	SAI		ТЕН	0.18			_	-	610XP	Tubesheet	Exam	0.00	. (0.00	0.00
23	26	3.62	23	74	SAI		ТЕН	0.28			Page	e 20	6101x 2 9	Tubesheet	Exam	0.25	Ċ).33	50.00
23	74	10.02	40	138	MAI		тен	0.15					610XP	Tubesheet	Exam	0.00	Ċ	0.00	0.00
																	•		

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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

06/29/09 15:01:52 Component: S/G C

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SG C Tubesheet Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATI	ON	UTI	5 3	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

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Total Tubes : 9 Total Records: 11

06/29/09 14:59:13 Component: S/G D

SG D Tubesheet Degradation

QUERY: QueryM1[1]

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATI	ON	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

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