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Oconee Nuclear Station

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February 23, 2006

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Subject: Duke Energy Company
Oconee Nuclear Station, Unit 2
Docket No. 50-270
Unit 2 EOC 21 Refueling Outage
Inservice Inspection Report
Fourth Ten-Year Inservice Inspection Interval

Please find attached a copy of the Inservice Inspection Report for Oconee Unit 2 End of Cycle 21 Refueling Outage. This report is submitted pursuant to Section XI of the ASME Boiler and Pressure Vessel Code, 1998 Edition, with 2000 addenda, Article IWA 6230.

If there are any questions you may contact R. P. Todd at (864) 885-3418.

A handwritten signature in cursive script that reads 'Bruce Hamilton'.

B. H. Hamilton,
Site Vice-President
Oconee Nuclear Station

Attachment

A047

U. S. Nuclear Regulatory Commission
February 23, 2005
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xc wo/attachment: Mr. William D. Travers
Administrator, Region II
U.S. Nuclear Regulatory Commission
61 Forsyth Street, S. W., Suite 23T85
Atlanta, GA 30303

Leonard N Olshan, Projects Manager
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. M. C. Shannon
NRC Senior Resident Inspector
Oconee Nuclear Station

INSERVICE INSPECTION REPORT

**DUKE POWER COMPANY
OCONEE NUCLEAR STATION
UNIT 2
TWENTY-FIRST REFUELING
OUTAGE**



A Duke Energy Company

**Owner's Report
For
INSERVICE INSPECTIONS**

**OCONEE UNIT 2
2005 REFUELING OUTAGE
EOC21 (OUTAGE 1)**

Plant Location: 7800 Rochester Highway, Seneca, South Carolina 29672

NRC Docket No. 50-270

Commercial Service Date: September 9, 1974

Document Completion Date 2-3-06

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

Revision 0

Prepared By:

Larry Co Keith

Date

1-19-06

Reviewed By:

Jay Underwood

Date

1-19-06

Approved By:

R. Kevin Rhyme

Date

1/31/06

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

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Energy Corporation, 526 S. Church St., Charlotte, NC 28201-1006
(Name and Address of Owner)

2. Plant: Oconee Nuclear Station, 7800 Rochester Highway, Seneca, SC 29672
(Name and Address of Plant)

3. Plant Unit: 2 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date: September 9, 1974 6. National Board Number for Unit N/A

7. Components Inspected:

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

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

Total number of pages contained in this report 363.

FORM NIS-1 (Back)

8. Examination Dates June 15, 2004 to November 30, 2005
9. Inspection Period Identification: First Period
10. Inspection Interval Identification: Fourth Interval
11. Applicable Edition of Section XI 1998 Addenda 2000
12. Date/Revision of Inspection Plan: June 23, 2004 / Revision 0
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Sections 2.0, 3.0 and 6.0
14. Abstract of Results of Examination and Tests. See Sections 4.0 and 6.0
15. Abstract of Corrective Measures. See Subsection 4.3

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

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

Date 1/31/06 Signed Duke Energy Corp. By R. Kevin Rhyme
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA employed by *The HSBI&I Co. of Connecticut have inspected the components described in this Owner's Report during the period 6-15-04 to 11-30-05, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the 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, test, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

[Signature] Commissions NC1444 NIABC
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-3-06

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

DISTRIBUTION LIST

1. Duke Energy Corporation
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Quality Assurance Technical Services
2. NRC Document Control Desk
3. Hartford Steam Boiler Inspection
and Insurance Company of Connecticut (AIA)
c/o ANII at Oconee

Note: The following personnel are to be notified via e-mail after the Inservice Inspection Report has been stored in the Nuclear Electronic Document Library:

GO Nuclear Assurance c/o Bruce Nardoci
Inspection and Welding Services (ISI Coordinator)

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1.0 General Information

This report describes the Inservice Inspection of Duke Energy Corporation's Oconee Nuclear Station, Unit 2, during Outage 1/EOC 21. This is the first outage in the first inspection period of the Fourth Ten-Year Interval. ASME Section XI, 1998 Edition with the 2000 Addenda, was the governing Code for selection and performing of the ISI examinations.

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

1.1 Identification Numbers

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Babcock & Wilcox	620-0004-51-52	N/A	N-105
Reactor Vessel Head (replaced head)	Babcock & Wilcox	068S-02	N/A	209
Steam Generator A	Babcock & Wilcox	006K03	N/A	207
Steam Generator B	Babcock & Wilcox	006K04	N/A	208
Pressurizer	Babcock & Wilcox	620-0004-59	N/A	N-106
Main Steam System	Duke Power	NA	NA	NA
Auxiliary Steam System	Duke Power	NA	NA	NA
Feedwater System	Duke Power	NA	NA	NA
Emergency Feedwater System	Duke Power	NA	NA	NA
Steam Generator Flush System	Duke Power	NA	NA	NA
Condensate System	Duke Power	NA	NA	NA

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Vents and Exhaust System	Duke Power	NA	NA	NA
Condenser Circulating Water	Duke Power	NA	NA	NA
High Pressure Service Water System	Duke Power	NA	NA	NA
Low Pressure Service Water System	Duke Power	NA	NA	NA
Reactor Coolant System	Duke Power	NA	NA	NA
High Pressure Injection System	Duke Power	NA	NA	NA
Low Pressure Injection System	Duke Power	NA	NA	NA
Reactor Building Spray System	Duke Power	NA	NA	NA
Component Cooling System	Duke Power	NA	NA	NA
Spent Fuel Cooling System	Duke Power	NA	NA	NA
Vents - Reactor Building Components	Duke Power	NA	NA	NA
Drains - Reactor Building Components	Duke Power	NA	NA	NA

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 certified in accordance with the requirements of 1998 Edition of ASME Section XI with the 2000 addenda including Appendix VII for ultrasonic inspections. In addition, ultrasonic examiners were qualified in accordance with ASME Section XI, Appendix VIII, and 1998 Edition with the 2000 Addenda through the Performance Demonstration Initiative (PDI) for similar metal piping welds and reactor vessel shell welds.

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 Oconee Nuclear Station or copies can be obtained by contacting Duke Energy's Corporate Office in Charlotte, North Carolina.

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

1.3 Reference Documents

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

Code Case N-460 (Applicable to items in this report where less than 100% coverage of the required weld examination volume was achieved.) These items are identified on the Run D that is located in Section 4 of this report.

Duke Power Company Problem Investigation Process Report # O-05-06919. This PIP was written to document a problem found with PZR Circumferential Head Weld documentation (Item B02.011.001) from a previous inspection in the third interval.

Duke Power Company Problem Investigation Process Report # O-05-07724. This PIP was written to document a problem found with work orders that were written to perform ISI on Unit 2 items during EOC-21 but the work orders were not scheduled to be completed until after the outage.

Duke Power Company Problem Investigation Process Report # O-05-08427. This PIP was written to track the Relief Request process for limited coverage on UT examinations of welds that were inspected during EOC-21 for Unit 2.

Request for Relief 04-ON-015 (Allows Duke to exempt the examination for B03.160 items for the 4th interval.)

Request for Relief 03-006 (Allows Duke and Alternative for the Snubber Examinations required in IWF-5000 for the 4th interval.)

1.4 Augmented and Elective Examinations

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

1.5 Responsible Inspection Agency

The Hartford Steam Boiler Inspection and Insurance Company of Connecticut is responsible for the third party inspections required by ASME Section XI.

Authorized Nuclear Inservice Inspector(s)

Name: Gary Brouette, Nancy Slaughter, Randy Klein, Tom Wyatt and Ed Reyes

Employer: The Hartford Steam Boiler Inspection & Insurance Company of Connecticut.

Business Address: 200 Ashford Center North
Suite 205
Atlanta, GA 30338-4860
(800) 417-3721
www.hsbct.com

2.0 Fourth Ten Year Interval Inspection Status

The completion status of inspections required by the 1998 ASME Code Section XI, with the 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 inspections are also included.

Class 1 Inspections

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	* Deferral Allowed
B-A	Pressure Retaining Welds in Reactor Vessel	6 Welds	0 Weld	0%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	10 Welds	2 Welds	20%	No
B-D	Full Penetration Welds of Nozzles in Vessels Inspection Program B	38 Inspections	4 Inspections	11%	Partial
B-E	Pressure Retaining Partial Penetration Welds in Vessels	REFERENCE SECTION 6.0 OF THIS REPORT			
B-F	Pressure Retaining Dissimilar Metal Welds	7 Welds	0 Welds	0%	No
B-G-1	Pressure Retaining Bolting Greater than 2 Inches in Diameter	128 Items	40.33 Items	32%	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	16 Items	5 Items	31%	No
B-J	Pressure Retaining Welds in Piping	165 Welds	16 Welds	10%	No
B-K	Welded Attachments for Vessels, Piping, Pumps and Valves	21	2	10%	No

* Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1.

Class 1 Inspections (Continued)

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	* Deferral Allowed
B-L-1	Pressure Retaining Welds in Pump Casings	1 Weld	0 Weld	0%	Yes
B-L-2	Pump Casings	1 Casing	0 Casing	0%	Yes
B-M-1	Pressure Retaining Welds in Valve Bodies	1 Valve Body Weld	0 Valve Body Weld	0%	Yes
B-M-2	Valve Bodies	4 Valves	0 Valves	0%	Yes
B-N-1	Interior of Reactor Vessel	3 Inspections	1 Inspection	33%	No
B-N-2	Welded Core Support Structures and Interior Attachments to Reactor Vessels	1 Inspection	0 Inspections	0%	Yes
B-N-3	Removable Core Support Structures	1 Inspection	0 Inspections	0%	Yes
B-O	Pressure Retaining Welds in Control Rod Housings	12 Housing Welds	4 Housing Welds	33%	Yes
B-P	All Pressure Retaining Components	REFERENCE SECTION 6.0 OF THIS REPORT			
B-Q	Steam Generator Tubing	N/A	N/A	N/A	N/A
F-A F1.10 & F1.040 items.	Class 1 Component Supports (Except Snubbers)	37 Supports	7 Supports	19%	No
F-A F1.050 items	Class 1 Component Supports, Snubbers				**

* Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1.

** Inspected under Selected License Commitment 16.9.18 per Relief Request 03-006

Class 2 Inspections

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	* Deferral Allowed
C-A	Pressure Retaining Welds in Pressure Vessels	4 Welds	0 Welds	0%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	4 Welds	2 Welds	50%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	37 Attachments	7 Attachments	19%	No
C-D	Pressure Retaining Bolting Greater Than 2 Inches in Diameter	2 Items	0 Items	0%	No
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	166 Welds	24 Welds	14%	No
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	61 Welds	7 Welds	11%	No
C-G	Pressure Retaining Welds in Pumps and Valves	N/A	N/A	N/A	N/A
C-H	All Pressure Retaining Components	REFERENCE SECTION 6.0 OF THIS REPORT			
F-A F1.020 & F1.040 items.	Class 2 Component Supports (Except Snubbers)	135 Supports	20 Supports	15%	No
F-A F1.050 items	Class 2 Component Supports, Snubbers				**

* Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1.

** Inspected under Selected License Commitment 16.9.18 per Relief Request 03-006

Augmented/Elective Inspections

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

<i>Item Number</i>	<i>Description</i>	<i>Percentage Complete</i>
G01.001	Reactor Coolant Pump Flywheel	None scheduled for EOC 21
G02.001	HPI Nozzle Safe End Examinations	None scheduled for EOC 21
G03.001	Pressurizer Surge Line Examinations	None scheduled for EOC 21
G04.001	Thermal Stress Piping (NRC Bulletin 88-08)	None scheduled for EOC 21
G11.001.001	Reactor Pressure Vessel Head Penetration Nozzle by UT Examination per NRC Order EA-03-009.	None scheduled for EOC 21
G11.001.002	Bare Metal Visual Examination of the Reactor Pressure Vessel Head Surface per NRC Order EA-03-009.	None scheduled for EOC 21
H01.001	Pressurizer Sensing/ Sampling Nozzle Safe Ends	None scheduled for EOC 21
H02.001	Class 1 RTE Mounting Bosses	None scheduled for EOC 21
H03.001	Main Feedwater Piping in the East and West Penetration Rooms per QA-513J (ER-ONS-04-03)	100% of EOC 21 Requirements
H04.001-	Main Feedwater and Main Steam Piping Supports and Attachment Welds per QA-513J (ER-ONS-04-05)	100% of EOC 21 Requirements

3.0 Final Inservice Inspection Plan

The final Inservice Inspection Plan shown in this section lists all ASME Section XI Class 1, Class 2, Class 3, and Augmented 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:

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

CATEGORY B-B, Pressure Retaining Welds In Vessels Other Than Reactor Vessels

DUKE ENERGY CORPORATION
INSERVICE INSPECTION PLAN MANAGEMENT
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Pressurizer

Oconee 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Shell-to-Head; Circumferential ****									
B02.011.001	2-PZR-WP76		ISI-OCN2-002	NDE-640	UT	CS	84.000	40338	Pressurizer Upper Head Pc. 5 to Upper Shell
	Circumferential	50	OM-1201-456	NDE-820			6.188		Course Pc. 1. Material thickness ranges from 6.50"
Class A					Head to Shell				to 4.750" due to taper of material.
Total B02.011 Items:		1							
**** Shell-to-Head; Longitudinal ****									
B02.012.001	2-PZR-WP1-1		ISI-OCN2-002	NDE-640	UT	CS	0.000	40338	Pressurizer Upper Shell Course Pc. 1 to Upper Shell
	Longitudinal	50	OM-1201-456	NDE-820			6.188		Course Pc. 1.
Class A					Shell to Shell				
Total B02.012 Items:		1							
Total B02 Items:		2							

CATEGORY B-D, Full Penetration Welded Nozzels In Vessels - Inspection Program B

DUKE ENERGY CORPORATION
INSERVICE INSPECTION PLAN MANAGEMENT
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Inservice Inspection Plan for Interval 4 Outage 1

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Heat Exchangers (Primary Side)

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Nozzle-to-Vessel Welds ****									
B03.150.001	2-LDCA-IN-V1		1-44773-1	See Com	UT	SS	3.000	40411	Letdown Cooler 2A Tubeside Inlet Nozzle Pc. 5 to
	Circumferential	51A	OM-201-3107				0.875		Channel Body Pc. 3.
Class A			O-ISIN4-101A-2.1		Nozzle to				Procedure 3630
					Channel Body				
B03.150.002	2-LDCA-OUT-V2		1-44773-1	See Com	UT	SS	3.000	40411	Letdown Cooler 2A Tubeside Outlet Nozzle Pc. 5 to
	Circumferential	51A	OM-201-3107				0.875		Channel Body Pc. 3.
Class A			O-ISIN4-101A-2.1		Nozzle to				Procedure 3630
					Channel Body				
Total B03.150 Items:		2							

CATEGORY B-D, Full Penetration Welded Nozzels In Vessels - Inspection Program B

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INSERVICE INSPECTION PLAN MANAGEMENT
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Heat Exchangers (Primary Side)

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Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Nozzle Inside Radius Section ****									
B03.160.001	2-LDCA-IN-V1		1-44773-1	TBD	UT	SS	3.000	TBD	Letdown Cooler 2A Tubeside Inlet Nozzle Pc. 5 to Channel Body Pc. 3. (Inside Radius Section)
Class A		51A	OM-201-3107 O-ISIN4-101A-2.1		Nozzle to Channel Body		0.875		This item is not to be inspected. A Relief Request will be filed to exempt us from examining this item.
B03.160.002	2-LDCA-OUT-V2		1-44773-1	TBD	UT	SS	3.000	TBD	Letdown Cooler 2A Tubeside Outlet Nozzle Pc. 5 to Channel Body Pc. 3. (Inside Radius Section)
Class A		51A	OM-201-3107 O-ISIN4-101A-2.1		Nozzle to Channel Body		0.875		This item is not to be inspected. A Relief Request will be filed to exempt us from examining this item.
Total B03.160 Items:		2							
Total B03 Items:		4							

**CATEGORY B-G-1, Pressure Retaining Bolting,
Greater Than 2 in. In Diameter**

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Reactor Vessel

Oconee 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Closure Head Nuts ****									
B06.010.001	2-RPV-26-204-01	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.002	2-RPV-26-204-02	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.003	2-RPV-26-204-03	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.004	2-RPV-26-204-04	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.005	2-RPV-26-204-05	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.006	2-RPV-26-204-06	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.007	2-RPV-26-204-07	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.008	2-RPV-26-204-08	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									

CATEGORY B-G-1, Pressure Retaining Bolting,
Greater Than 2 in. In Diameter

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Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.010.009	2-RPV-26-204-09	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.010	2-RPV-26-204-10	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.011	2-RPV-26-204-11	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.012	2-RPV-26-204-12	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.013	2-RPV-26-204-13	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.014	2-RPV-26-204-14	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.015	2-RPV-26-204-15	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.016	2-RPV-26-204-16	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									
B06.010.017	2-RPV-26-204-17	50	OM-1201-4 B&W152009E	QAL-13	VT-1	CS	9.250 1.300		Reactor Vessel Closure Nut Pc. 26.
Class A									

**CATEGORY B-G-1, Pressure Retaining Bolting,
Greater Than 2 in. In Diameter**

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Reactor Vessel

Oconee 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.010.018	2-RPV-26-204-18		OM-1201-4	QAL-13	VT-1	CS	9.250		Reactor Vessel Closure Nut Pc. 26.
		50	B&W152009E				1.300		
Class A									
B06.010.019	2-RPV-26-204-62		OM-1201-4	QAL-13	VT-1	CS	9.250		Reactor Vessel Closure Nut Pc. 26.
		50	B&W152009E				1.300		
Class A									
B06.010.020	2-RPV-26-204-20		OM-1201-4	QAL-13	VT-1	CS	9.250		Reactor Vessel Closure Nut Pc. 26.
		50	B&W152009E				1.300		
Class A									
Total B06.010 items:		20							

**CATEGORY B-G-1, Pressure Retaining Bolting,
Greater Than 2 in. In Diameter**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Closure Studs, when removed ****									
B06.030.001	2-RPV-25-204-01	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.002	2-RPV-25-204-02	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.003	2-RPV-25-204-03	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.004	2-RPV-25-204-64	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.005	2-RPV-25-204-05	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.006	2-RPV-25-204-06	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.007	2-RPV-25-204-07	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.008	2-RPV-25-204-08	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									

**CATEGORY B-G-1, Pressure Retaining Bolting,
Greater Than 2 in. In Diameter**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.030.009	2-RPV-25-204-09	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.010	2-RPV-25-204-10	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.011	2-RPV-25-204-11	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.012	2-RPV-25-204-12	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.013	2-RPV-25-204-13	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.014	2-RPV-25-204-14	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.015	2-RPV-25-204-15	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.016	2-RPV-25-204-16	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.017	2-RPV-25-204-17	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									

**CATEGORY B-G-1, Pressure Retaining Bolting,
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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B06.030.018	2-RPV-25-204-18	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.019	2-RPV-25-204-19	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
B06.030.020	2-RPV-25-204-20	50	OM-1201-4 B&W152009E	See Com	UT	CS	6.500 0.000	40420	Reactor Vessel Closure Stud Pc. 25 - Removed. Stud Length = 63.250. Procedure # PDI-UT-5.
Class A									
Total B06.030 items:		20							

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Closure Washers, Bushings ****									
B06.050.001	2-RPV-WASH-BUSH		B&W152009E	QAL-13	VT-1	CS	9.750		Reactor Vessel Closure Washers and Bushings.
		50					0.000		Stud Holes 1 thru 20.
Class A									
Total B06.050 Items:		1							
Total B06 Items:		41							

CATEGORY B-G-2, Pressure Retaining Bolting, 2 in. And Less In Diameter

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Pressurizer

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****										
B07.020.001	2-PZR-UHB-STUDS		B&W149775E	QAL-13	VT-1	CS	2.000			Pressurizer Upper Heater Bundle Studs Pc. 75 and Nuts. 16 Studs, Length = 19.312". Examine all studs and nuts.
		50					0.000			
Class A										

Total B07.020 Items: 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****									
B07.030.001	2-SGA-UMW-STUDS	50	OM-201.S-0001	QAL-13	VT-1	SS	2.000		Steam Generator 2A Upper Head Manway Studs and Nuts. (16 Studs & Nuts) Examine all studs and nuts. Stud Length =19.63 inches.
Class A			OM-201.S-0170				0.000		
			OM-201.S-0171						
B07.030.002	2-SGA-LMW-STUDS	50	OM-201.S-0001	QAL-13	VT-1	SS	2.000		Steam Generator 2A Lower Head Manway Studs and Nuts. (16 Studs & Nuts) Examine all studs and nuts. Stud Length =19.63 inches.
Class A			OM-201.S-0158				0.000		
			OM-201.S-0171						
Total B07.030 Items:		2							

CATEGORY B-G-2, Pressure Retaining Bolting, 2
in. And Less In Diameter

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Piping

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****									
B07.050.001	2-PZR-RC4-STUDS		OM-245-2012	QAL-13	VT-1	CS	1.125		Pressurizer EMO Valve 2RC-4 Inlet Flange Studs
		50					0.000		W-Z Quadrant.
Class A									8 Studs, Length = 8.750". Examine all studs and nuts.
Total B07.050 Items:		1							

CATEGORY B-G-2, Pressure Retaining Bolting, 2
in. And Less In Diameter

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Valves

Oconee 2

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Bolts, Studs, and Nuts ****									
B07.070.003	2-53A-CF13-STUDS		OM-245-001	QAL-13	VT-1	CS	1.125		B-Side Core Flood 14" Valve 2CF-13 Bolting.
		53A	O-ISIN4-102A-2.3				0.000		Y Axis. Inspect one of the following valves: 2CF-11, 2CF-12, 2CF-13, or 2CF-14. Examine all studs and nuts.
Class A									
Total B07.070 Items:		1							
Total B07 Items:		5							

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CATEGORY B-J, Pressure Retaining Welds In Piping

NPS 4 or Larger

Oconee 2

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Welds ****									
B09.011.001	2-PSL-8		ISI-OCN2-015	NDE-600	UT	SS	10.000	See Com	Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 84. Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	50	O-ISIN4-100A-2.2	See Com			1.000		
Class A	Stress weld				Pipe to Elbow				
B09.011.001A	2-PSL-8		ISI-OCN2-015	NDE-35	PT	SS	10.000		Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 84.
	Circumferential	50	O-ISIN4-100A-2.2				1.000		
Class A	Stress weld				Pipe to Elbow				
B09.011.030	2-PIB2-4		ISI-OCN2-010	NDE-600	UT	CS	33.500	See Com	Reactor Coolant Pump 2B2 Suction Piping. Pipe Pc. 63 to Elbow Pc. 62. Depending upon the examiners qualifications, procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, calibration block PDI-UT-1-O should be used.
	Circumferential	50	OM-1201-966	See Com			2.330		
Class A	Stress weld				Pipe to Elbow				
B09.011.030A	2-PIB2-4		ISI-OCN2-010	NDE-25	MT	CS	33.500		Reactor Coolant Pump 2B2 Suction Piping. Pipe Pc. 63 to Elbow Pc. 62.
	Circumferential	50	OM-1201-966				2.330		
Class A	Stress weld				Pipe to Elbow				
B09.011.203	2LP-189-1		2LP-189	NDE-600	UT	SS	10.000	See Com	This weld was listed previously as 2-53A-8-1 on iso 2-53A-8(1) until it was transferred to iso 2LP-189. Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-2.3	See Com			1.000		
Class A					Pipe to Elbow				
B09.011.203A	2LP-189-1		2LP-189	NDE-35	PT	SS	10.000		This weld was listed previously as 2-53A-8-1 on iso 2-53A-8(1) until it was transferred to iso 2LP-189.
	Circumferential	53A	O-ISIN4-102A-2.3				1.000		
Class A					Pipe to Elbow				
B09.011.208	2-53A-8-48		2-53A-8(2)	NDE-600	UT	SS	14.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-2.3	See Com			1.250		
Class A					Pipe to Elbow				

CATEGORY B-J, Pressure Retaining Welds In Piping

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NPS 4 or Larger

Oconee 2

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.208A	2-53A-8-48		2-53A-8(2)	NDE-35	PT	SS	14.000		
	Circumferential	53A	O-ISIN4-102A-2.3				1.250		
	Class A				Pipe to Elbow				
B09.011.209	2-53A-8-50		2-53A-8(2)	NDE-600	UT	SS	14.000	See Com	Depending upon the examiners qualifications, procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, calibration block PDI-UT-2-O should be used.
	Circumferential	53A	O-ISIN4-102A-2.3	See com			1.250		
	Class A				Pipe to Elbow				
B09.011.209A	2-53A-8-50		2-53A-8(2)	NDE-35	PT	SS	14.000		
	Circumferential	53A	O-ISIN4-102A-2.3				1.250		
	Class A				Pipe to Elbow				
Total B09.011 items:		10							

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CATEGORY B-J, Pressure Retaining Welds In Piping

Less Than NPS 4

Oconee 2

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Welds ****									
B09.021.004	2-PDA1-11		ISI-OCN2-011	NDE-35	PT	SS-CS	3.500		Reactor Coolant Pump 2A1 Discharge Piping. Nozzle Pc. 46 to Safe End Pc. 47. This weld was cut out and welded back in EOC-20. The new weld is also listed as weld 29 on rev. 11 of iso 2RC-204.
Class A	Circumferential	50	B&W146829E				0.750		
	Stress weld							Nozzle to Safe End	
	Dissimilar								
B09.021.010	2-PIB1-11		ISI-OCN2-009	NDE-35	PT	CS-Inconel	3.500		Reactor Coolant Pump 2B1 Suction Piping. Nozzle Pc. 87 to Safe End Pc. 88.
Class A	Circumferential	50	B&W146635E				0.672		
	Stress weld							Nozzle to Safe End	
	Dissimilar								
B09.021.123	2-51A-147-17		2-51A-147	NDE-35	PT	SS	2.500		
Class A	Circumferential	51A	O-ISIN4-101A-2.1				0.375		
								Pipe to Reducer	
B09.021.134	2-51A-35-43		2-51A-35 (2)	NDE-35	PT	SS	2.500		
Class A	Circumferential	51A	O-ISIN4-101A-2.1				0.375		
								Tee to Valve 2HP-1	
B09.021.135	2-51A-35-55		2-51A-35 (2)	NDE-35	PT	SS	2.500		
Class A	Circumferential	51A	O-ISIN4-101A-2.1				0.375		
								Tee to Pipe	
B09.021.136	2-51A-35-56		2-51A-35 (2)	NDE-35	PT	SS	2.500		
Class A	Circumferential	51A	O-ISIN4-101A-2.1				0.375		
								Pipe to Elbow	
B09.021.201	2LP-151-1		2LP-151	NDE-35	PT	SS	3.000		This weld was previously listed as 2-53A-36-1 until iso 2-53A-36 was redrawn.
Class A	Circumferential	53A	O-ISIN4-102A-2.1				0.438		
								Valve 2LP-103 to Pipe	

Total B09.021 Items: 7

CATEGORY B-J, Pressure Retaining Welds In Piping

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Branch Pipe Connection Welds

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Less Than NPS 4 ****									
B09.032.004	2-PDB1-12		ISI-OCN2-013	NDE-35	PT	SS	12.000		Reactor Coolant Pump 2B1 Discharge Piping.
	Branch	50	OM-1201-966				2.250		Pressurizer Spray Nozzle Pc. 51 to Safe End Pc. 49.
Class A	Stress weld		B&W146630E		Nozzle to Safe End				NPS of Branch Piping is 2.5 inches.
B09.032.201	2LP-151-21		2LP-151	NDE-35	PT	SS	3.000		Isometric 2LP-151 was issued to transfer welds from
	Branch	53A	O-ISIN4-102A-2.1				0.438		2-53A-35. This weld number used to be
Class A					Pipe to Pipe				2-53A-35-1.
Total B09.032 Items:		2							

CATEGORY B-J, Pressure Retaining Welds In Piping

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Socket Welds

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.040.002	2RC-271-13A		2RC-271	NDE-35	PT	SS	1.500		This weld was listed previously as 2-50-129-13A until iso 2-50-129 was deleted and all welds were transferred to iso 2RC-271.
	Socket	50	O-ISIN4-100A-2.2				0.281		
Class A					Tee to Pipe				
B09.040.007	2-50-7-124		2-50-7 (1)	NDE-35	PT	SS	1.500		
	Socket	50	O-ISIN4-100A-2.1				0.281		
Class A					Pipe to Elbow				
Total B09.040 Items:		2							
Total B09 Items:		21							

CATEGORY B-K, Welded Attachments For Vessels, Piping, Pumps, And Valves

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Piping

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
B10.020.001	2-50-0-1481A-H3		0-2RB-25314-01	NDE-35	PT	NA	2.500		Calculation No. OSC-1324-06.
	Hyd Snubber	50	O-ISIN4-100A-2.2				0.154		Inspect with F01.012.002.
	Class A								
B10.020.031	2-53A-0-1479A-H8B		0-1492C-2(s)	NDE-35	PT	NA	10.000		Calculation No. OSC-1318.
	Spring Hgr	53A	O-ISIN4-102A-2.3				1.250		Inspect with F01.012.032.
	Class A								
Total B10.020 Items:		2							
Total B10 Items:		2							

CATEGORY B-N-1, Interior Of Reactor Vessel

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Vessel Interior ****									
B13.010.001	2-RPV-INT-SURFACE		B&W152008E	QAL-14	VT-3	SS	0.000		Reactor Vessel Interior. Areas to be examined shall include the spaces above and below the Reactor Core that are made accessible for examination by removal of components during normal refueling outages. Reference Framatome Procedure 54-ISI-364-00.
		50	ISI-OCN2-001	See Com			0.000		
Class A									
Total B13.010 Items:		1							
Total B13 Items:		1							

CATEGORY B-O, Pressure Retaining Welds In Control Rod Housings

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Reactor Vessel

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Welds in CRD Housing ****									
B14.010.003	2-RPV-CRD-63WH9	50	OM-1201-1529 OM-1201-1530	NDE-35	PT	SS-Inconel	4.025 0.650		CRDM #63 Housing Body to Adapter.
Class A Dissimilar					Housing Body to Adapter				
B14.010.006	2-RPV-CRD-63W60	50	OM-1201-1530 OM-2201-1085	NDE-35	PT	SS-CS	5.000 0.500		CRDM #63 Base to Motor Tube.
Class A					Base to Motor Tube				
B14.010.009	2-RPV-CRD-63	50	OM-1201-1530 OM-2201-1085	NDE-35	PT	SS-CS	4.300 0.400		CRDM #63 Motor Tube to Extension.
Class A					Motor Tube to Extension				
B14.010.012	2-RPV-CRD-63W61	50	OM-1201-1530 OM-2201-1085	NDE-35	PT	SS	4.190 0.380		CRDM #63 Extension to Cap.
Class A					Extension to Cap				
Total B14.010 Items:		4							
Total B14 Items:		4							

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
C03.010.003	2-RCSR-COOLER-A		OM-201-086 O-ISIN4-101A-2.1	NDE-35	PT	SS	0.000 0.000		Reactor Coolant Seal Return Cooler 2A.
Class B		Support Attachment to Shell							
Total C03.010 Items:		1							

CATEGORY C-C, Welded Attachments For Vessels, Piping, Pumps, And Valves

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Piping

Osope 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
C03.020.001	2-01A-0-1441-H1		2-01-01/sht.1	NDE-25	MT	NA	36.000		Calculation No. OSC-440. Inspect with F01.022.001.
Class B	Spring Hgr	01A	O-ISIN4-122A-2.1				0.500		
C03.020.013	2-03A-1439A-RL-0901		2-03A-08/sht.3	NDE-25	MT	NA	6.000		Calculation No. OSC-449. Inspect with F01.020.014.
Class B	Rigid Support	03A	O-ISIN4-121D-2.1				0.500		
C03.020.021	2-14B-0-1479A-H11E		0-2RB-21410-04	NDE-25	MT	NA	8.000		Calculation No. OSC-1325-09. Inspect with
Class B	Rigid Restraint	14B	O-ISIN4-124B-2.2				1.500		F01.021.023.
C03.020.045	2-53B-2-0-436E-H10		0-2AB-25102-02	NDE-35	PT	NA	6.000		Calculation No. OSC-481. Inspect with F01.020.071.
Class B	Rigid Support	53B	O-ISIN4-101A-2.3				0.216		
C03.020.053	2-54A-3-0-1444-R3		2-54-03/sht.2	NDE-35	PT	NA	8.000		Calculation No. OSC-496. Inspect with F01.021.073.
Class B	Rigid Restraint	54A	O-ISIN4-103A-2.1				0.500		
C03.020.054	2-54A-3-0-1444-H1		2-54-1/sht.1	NDE-35	PT	NA	8.000		Calculation No. OSC-494. Inspect with F01.020.097.
Class B	Rigid Support	54A	O-ISIN4-103A-2.1				0.500		
Total C03.020 Items:		6							
Total C03 Items:		7							

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

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

Oconee 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****									
C05.011.001	2LP-148-16		2LP-148	NDE-600	UT	SS	10.000	See Com	This weld was previously listed as 2-53A-8-16 until iso 2-53A-8(1) was redrawn. Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	53A	O-ISIN4-102A-2.2	See Com	Pipe to Valve 2LP-47		1.125		
C05.011.001A	2LP-148-16		2LP-148	NDE-35	PT	SS	10.000		This weld was previously listed as 2-53A-8-16 until iso 2-53A-8(1) was redrawn.
Class B	Circumferential	53A	O-ISIN4-102A-2.2		Pipe to Valve 2LP-47		1.125		
C05.011.002	2LP-148-17		2LP-148	NDE-600	UT	SS	10.000	See Com	This weld was previously listed as 2-53A-8-17 until iso 2-53A-8(1) was redrawn. Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	53A	O-ISIN4-102A-2.2	See Com	Pipe to Elbow		1.125		
C05.011.002A	2LP-148-17		2LP-148	NDE-35	PT	SS	10.000		This weld was previously listed as 2-53A-8-17 until iso 2-53A-8(1) was redrawn.
Class B	Circumferential	53A	O-ISIN4-102A-2.2		Pipe to Elbow		1.125		
C05.011.003	2LP-148-18		2LP-148	NDE-600	UT	SS	10.000	See Com	This weld was previously listed as 2-53A-8-18 until iso 2-53A-8(1) was redrawn. Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	53A	O-ISIN4-102A-2.2	See Com	Pipe to Elbow		1.125		
C05.011.003A	2LP-148-18		2LP-148	NDE-35	PT	SS	10.000		This weld was previously listed as 2-53A-8-18 until iso 2-53A-8(1) was redrawn.
Class B	Circumferential	53A	O-ISIN4-102A-2.2		Pipe to Elbow		1.125		

Total C05.011 Items: 6

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

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**Piping Welds > 1/5 in. Nom Wall for Piping >=
NPS 2 and <= NPS 4**

**Oconee 2
Inservice Inspection Plan for Interval 4 Outage 1**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****									
C05.021.001	2-RCP-FTR2A-SH-1			NDE-12	RT	SS	4.000		Reactor Coolant Pump Seal Supply Filter 2A. Pc.
	Circumferential	51A	OM-201-0473				0.531		10 to Pc. 1.
Class B	Term end		O-ISIN4-101A-2.4						Filter Hub to Filter Housing
C05.021.001A	2-RCP-FTR2A-SH-1			NDE-35	PT	SS	4.000		
	Circumferential	51A	OM-201-0473				0.531		
Class B	Term end		O-ISIN4-101A-2.4						Filter Hub to Filter Housing
C05.021.002	2-RCP-FTR2A-SH-2			NDE-12	RT	SS	4.000		Reactor Coolant Pump Seal Supply Filter 2A Pc. 10
	Circumferential	51A	OM-201-0473				0.531		to Pc. 1.
Class B	Term end		O-ISIN4-101A-2.4						Filter Hub to Filter Housing
C05.021.002A	2-RCP-FTR2A-SH-2			NDE-35	PT	SS	4.000		
	Circumferential	51A	OM-201-0473				0.531		
Class B	Term end		O-ISIN4-101A-2.4						Filter Hub to Filter Housing
C05.021.006	2-51A-129-9		2-51A-129	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications,
	Circumferential	51A	O-ISIN4-101A-2.4	See Com			0.531		Procedure PDI-UT-2 may be used in lieu of
Class B					Elbow to Pipe				Procedure NDE-600. If PDI-UT-2 is used,
C05.021.006A	2-51A-129-9		2-51A-129	NDE-35	PT	SS	4.000		Calibration Block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-2.4				0.531		
Class B					Elbow to Pipe				
C05.021.024	2-51A-17-100A		2-51A-17 (4)	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications,
	Circumferential	51A	O-ISIN4-101A-2.3	See Com			0.531		Procedure PDI-UT-2 may be used in lieu of
Class B					Tee to Pipe				Procedure NDE-600. If PDI-UT-2 is used,
C05.021.024A	2-51A-17-100A		2-51A-17 (4)	NDE-35	PT	SS	4.000		Calibration Block PDI-UT-2-O should be used.
	Circumferential	51A	O-ISIN4-101A-2.3				0.531		
Class B					Tee to Pipe				

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

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**Piping Welds > 1/5 in. Nom Wall for Piping >=
NPS 2 and <= NPS 4**

Oconee 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.025	2-51A-17-101		2-51A-17 (4)	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-2.3	See Com	Tee to Tee		0.531		
C05.021.025A	2-51A-17-101		2-51A-17 (4)	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-2.3		Tee to Tee		0.531		
C05.021.026	2-51A-17-111		2-51A-17 (5)	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-2.3	See Com	Pipe to Valve 2HP-128		0.531		
C05.021.026A	2-51A-17-111		2-51A-17 (5)	NDE-35	PT	SS	4.000		
Class B	Circumferential	51A	O-ISIN4-101A-2.3		Pipe to Valve 2HP-128		0.531		
C05.021.027	2HP-227-3		2HP-227	NDE-600	UT	SS	4.000	See Com	This weld was listed previously as 2-51A-17-142 until iso 2-51A-17(6) was redrawn. Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-2.3	See Com	Pipe to Valve 2HP-117		0.531		
C05.021.027A	2HP-227-3		2HP-227	NDE-35	PT	SS	4.000		This weld was listed previously as 2-51A-17-142 until iso 2-51A-17(6) was redrawn.
Class B	Circumferential	51A	O-ISIN4-101A-2.3		Pipe to Valve 2HP-117		0.531		
C05.021.028	2HP-227-7		2HP-227	NDE-600	UT	SS	4.000	See Com	This weld was listed previously as 2-51A-17-146 until iso 2-51A-17(6) was redrawn. Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-2.3	See Com	Pipe to Valve 2HP-148		0.531		
C05.021.028A	2HP-227-7		2HP-227	NDE-35	PT	SS	4.000		This weld was listed previously as 2-51A-17-146 until iso 2-51A-17(6) was redrawn.
Class B	Circumferential	51A	O-ISIN4-101A-2.3		Pipe to Valve 2HP-148		0.531		

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

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**Piping Welds > 1/5 in. Nom Wall for Piping >=
NPS 2 and <= NPS 4**

Oconee 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.073	2-51A-28-67		2-51A-28 (3)	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-2.4	See Com	Tee to Pipe		0.375		
C05.021.073A	2-51A-28-67		2-51A-28 (3)	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-2.4		Tee to Pipe		0.375		
C05.021.074	2-51A-28-69		2-51A-28 (3)	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-2.4	See Com	Elbow to Pipe		0.375		
C05.021.074A	2-51A-28-69		2-51A-28 (3)	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-2.4		Elbow to Pipe		0.375		
C05.021.075	2-51A-33-10		2-51A-33	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-2.1	See Com	Pipe to Elbow		0.375		
C05.021.075A	2-51A-33-10		2-51A-33	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-2.1		Pipe to Elbow		0.375		
C05.021.076	2-51A-33-13		2-51A-33	NDE-600	UT	SS	2.500	See Com	Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-2.1	See Com	Elbow to Pipe		0.375		
C05.021.076A	2-51A-33-13		2-51A-33	NDE-35	PT	SS	2.500		
Class B	Circumferential	51A	O-ISIN4-101A-2.1		Elbow to Pipe		0.375		
C05.021.081	2-51A-27-3		2-51A-27 (1)	NDE-600	UT	SS	4.000	See Com	Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B	Circumferential	51A	O-ISIN4-101A-2.4	See Com	Elbow to Pipe		0.531		

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

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**Piping Welds > 1/5 in. Nom Wall for Piping >=
NPS 2 and <= NPS 4**

Oconee 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.081A	2-51A-27-3 Circumferential	51A	2-51A-27 (1) O-ISIN4-101A-2.4	NDE-35	PT	SS	4.000 0.531		
Class B					Elbow to Pipe				
C05.021.087	2-51A-27-21 Circumferential	51A	2-51A-27 (1) O-ISIN4-101A-2.4	NDE-600 See Com	UT	SS	4.000 0.531	See Com	Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B					Pipe to Elbow				
C05.021.087A	2-51A-27-21 Circumferential	51A	2-51A-27 (1) O-ISIN4-101A-2.4	NDE-35	PT	SS	4.000 0.531		
Class B					Pipe to Elbow				
C05.021.093	2-51A-28-30 Circumferential	51A	2-51A-28 (1) O-ISIN4-101A-2.4	NDE-600 See Com	UT	SS	4.000 0.531	See Com	Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B					Pipe to Valve 2HP-134				
C05.021.093A	2-51A-28-30 Circumferential	51A	2-51A-28 (1) O-ISIN4-101A-2.4	NDE-35	PT	SS	4.000 0.531		
Class B					Pipe to Valve 2HP-134				
C05.021.099	2HP-212-24 Circumferential	51A	2HP-212 O-ISIN4-101A-2.1	NDE-600 See Com	UT	SS	2.500 0.375	See Com	This weld used to be listed as 2-51A-33-24 and was shown on isometric 2-51A-33. Depending upon the examiners qualifications, Procedure PDI-UT-2 may be used in lieu of Procedure NDE-600. If PDI-UT-2 is used, Calibration Block PDI-UT-2-O should be used.
Class B					Pipe to Elbow				
C05.021.099A	2HP-212-24 Circumferential	51A	2HP-212 O-ISIN4-101A-2.1	NDE-35	PT	SS	2.500 0.375		This weld used to be listed as 2-51A-33-24 and was shown on isometric 2-51A-33.
Class B					Pipe to Elbow				

Total C05.021 Items: 32

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

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Socket Welds

Oconee 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.030.001	2-51B-18-48		2-51B-18	NDE-35	PT	SS	2.000		
Class B	Socket	51B	O-ISIN4-101A-2.2		Pipe to Elbow		0.154		
C05.030.007	2LP-98-10		2LP-98	NDE-35	PT	SS	10.000		
Class B	Socket	53B	O-ISIN4-102A-2.2		Flange to Reducer		0.375		
C05.030.008	2LP-97-13		2LP-97	NDE-35	PT	SS	10.000		
Class B	Socket	53B	O-ISIN4-102A-2.2 OM 201-286		Flange to Reducer		0.375		
C05.030.009	2HP-451-44		2HP-451	NDE-35	PT	SS	4.000		This weld was listed previously as 2-51A-17-44 on iso 2-51A-17(1) until it was transferred to iso 2HP-451.
Class B	Socket Term end	51A	O-ISIN4-101A-2.3		Elbow to Flange		0.237		
Total C05.030 Items:		4							

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

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Pipe Branch Connections of Branch Piping \geq NPS 2

Oconee 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL	BLOCKS	COMMENTS
**** Circumferential Weld ****										
C05.041.001	2LP-96-13		2LP-96	NDE-35	PT	SS	6.000			
	Branch	53B	O-ISIN4-102A-2.2				0.280			
	Class B				Pipe to Pipe					
Total C05.041 Items:		1								

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

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

Oconee 2

Inservice Inspection Plan for Interval 4 Outage 1

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
**** Circumferential Weld ****									
C05.051.007	2MS-124-69V		2MS-124	NDE-600	UT	CS	24.000	See Com	S/G 2A Main Steam Nozzle to Reducer weld. Depending upon the examiners qualifications, Procedure PDI-UT-1 may be used in lieu of Procedure NDE-600. If PDI-UT-1 is used, Calibration Block PDI-UT-1-O should be used.
Class B	Circumferential Term end	01A	O-ISIN4-122A-2.1	See Com			0.969		
					Reducer to Nozzle S/G 2A				
C05.051.007A	2MS-124-69V		2MS-124	NDE-25	MT	CS	24.000		S/G 2A Main Steam Nozzle to Reducer weld.
Class B	Circumferential Term end	01A	O-ISIN4-122A-2.1				0.969		
					Reducer to Nozzle S/G 2A				
C05.051.008	2MS-124-72V		2MS-124	NDE-600	UT	CS	24.000	See Com	S/G 2A Main Steam Nozzle to Reducer weld. Depending upon the examiners qualifications, Procedure PDI-UT-1 may be used in lieu of Procedure NDE-600. If PDI-UT-1 is used, Calibration Block PDI-UT-1-O should be used.
Class B	Circumferential Term end	01A	O-ISIN4-122A-2.1	See Com			0.969		
					Reducer to Nozzle S/G 2A				
C05.051.008A	2MS-124-72V		2MS-124	NDE-25	MT	CS	24.000		S/G 2A Main Steam Nozzle to Reducer weld.
Class B	Circumferential Term end	01A	O-ISIN4-122A-2.1				0.969		
					Reducer to Nozzle S/G 2A				
C05.051.026	2-14B-48-109		2-14B-48	NDE-600	UT	CS	8.000	See Com	Flange at valve 2LPSW-21. Depending upon the examiners qualifications, Procedure PDI-UT-1 may be used in lieu of Procedure NDE-600. If PDI-UT-1 is used, Calibration Block PDI-UT-1-O should be used.
Class B	Circumferential	14B	O-ISIN4-124B-2.2	See Com			0.500		
					Flange to Pipe				
C05.051.026A	2-14B-48-109		2-14B-48	NDE-25	MT	CS	8.000		Flange at valve 2LPSW-21.
Class B	Circumferential	14B	O-ISIN4-124B-2.2				0.500		
					Flange to Pipe				
C05.051.027	2-14B-48-111		2-14B-48	NDE-600	UT	CS	6.000	See Com	Depending upon the examiners qualifications, Procedure PDI-UT-1 may be used in lieu of Procedure NDE-600. If PDI-UT-1 is used, Calibration Block PDI-UT-1-O should be used.
Class B	Circumferential	14B	O-ISIN4-124B-2.2	See Com			0.432		
					Tee to Flange				
C05.051.027A	2-14B-48-111		2-14B-48	NDE-25	MT	CS	6.000		
Class B	Circumferential	14B	O-ISIN4-124B-2.2				0.432		
					Tee to Flange				

CATEGORY D-A, Welded Attachments For Vessels, Piping, Pumps, And Valves

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Piping

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Welded Attachments ****									
D01.020.013	2-03A-1-0-1439B-H12		2-03A-06/sht.3	QAL-13	VT-1	NA	6.000		Calculation No. OSC-459. Inspect with F01.031.022.
	Rigid Restraint	03A	O-ISIN4-121D-2.1				0.216		
Class C									
D01.020.014	2-03A-1-0-1439B-H31		2-03A-05/sht.4	QAL-13	VT-1	NA	6.000		Calculation No. OSC-447. Inspect with F01.032.011.
	Spring Hgr	03A	O-ISIN4-121D-2.1				0.500		
Class C									
D01.020.031	2-07A-6-0-1400A-H56		0-2TB-20701-01	QAL-13	VT-1	NA	12.000		Calculation No. OSC-467. Inspect with F01.032.021.
	Spring Hgr	07A	O-ISIN4-121A-2.8				0.750		
Class C									
D01.020.051	0-13-447A-H7000		4-13-03/sht.1	QAL-13	VT-1	NA	16.000		Calculation No. OSC-1224-25. Inspect with
	Rigid Restraint	13	O-ISIN4-133A-2.5				1.000		F01.031.051.
Class C									
D01.020.061	2-14B-0-1436A-H28		2-14-06/sht.3	QAL-13	VT-1	NA	16.000		Calculation No. OSC-475. Inspect with F01.032.51.
	Spring Hgr	14B	O-ISIN4-124B-2.1				0.187		
Class C									
Total D01.020 Items:		5							
Total D01 Items:		5							

CATEGORY F-A, Supports

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Class 1 Piping Supports

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.010.015	2-51A-0-1479A-H9B		2-51-24	QAL-14	VT-3	NA	2.500		Calculation No. OSC-1323.
	Rigid Support	51A	O-ISIN4-101A-2.4				0.500		HPI West Coolant Loop.
Class A									
F01.010.016	2-51A-0-1479A-H4A		0-2RB-25315-04	QAL-14	VT-3	NA	2.500		Calculation No. OSC-1324-06.
	Rigid Support	51A	O-ISIN4-101A-2.4				0.375		HPI East Coolant Loop.
Class A									
Total F01.010 Items: 2									
**** Category B, Multi-Directional ****									
F01.011.032	2-53A-0-1481A-H28C		0-2RB-25314-02	QAL-14	VT-3	NA	1.500		Calculation No. OSC-1324-06.
	Rigid Restraint	53A	O-ISIN4-100A-2.2				0.250		
Class A									
Total F01.011 Items: 1									
**** Category C, Thermal Movement ****									
F01.012.002	2-50-0-1481A-H3		0-2RB-25314-01	QAL-14	VT-3	NA	2.500		Calculation No. OSC-1324-06.
	Hyd Snubber	50	O-ISIN4-100A-2.2				0.154		
Class A									
F01.012.032	2-53A-0-1479A-H8B		0-1492C-2(s)	QAL-14	VT-3	NA	10.000		Calculation No. OSC-1318.
	Spring Hgr	53A	O-ISIN4-102A-2.3				1.250		
Class A									
Total F01.012 items: 2									

CATEGORY F-A, Supports

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.020.002	2-01A-0-1401B-H21		2-01-01/sht.2	QAL-14	VT-3	NA	36.000		Calculation No. OSC-440.
Class B	Rigid Support	01A	O-ISIN4-122A-2.1				0.000		Inspect with item number H04.001.044.
F01.020.014	2-03A-1439A-RL-0901		2-03A-08/sht.3	QAL-14	VT-3	NA	6.000		Calculation No. OSC-449. Inspect with
Class B	Rigid Support	03A	O-ISIN4-121D-2.1				0.500		C03.020.013.
F01.020.049	2-51A-3-0-1439A-H77		0-2AB-25106-01	QAL-14	VT-3	NA	4.000		Calculation No. OSC-483.
Class B	Rigid Support	51A	O-ISIN4-101A-2.1				0.000		
F01.020.054	2-51A-435C-DE008		2-51-18/sht.3	QAL-14	VT-3	NA	4.000		Calculation No. OSC-1023.
Class B	Rigid Support	51A	O-ISIN4-101A-2.4				0.000		
F01.020.071	2-53B-2-0-436E-H10		0-2AB-25102-02	QAL-14	VT-3	NA	6.000		Calculation No. OSC-481. Inspect with
Class B	Rigid Support	53B	O-ISIN4-101A-2.3				0.216		C03.020.045.
F01.020.076	2-53B-0-435B-DE016		0-2AB-25301-03	QAL-14	VT-3	NA	10.000		Calculation No. OSC-487.
Class B	Rigid Support	53B	O-ISIN4-102A-2.2				0.000		
F01.020.091	2-54A-435B-DE15		0-2AB-25301-01	QAL-14	VT-3	NA	10.000		Calculation No. OSC-487.
Class B	Rigid Support	54A	O-ISIN4-102A-2.1				0.125		
F01.020.097	2-54A-3-0-1444-H1		2-54-1/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-494. Inspect with
Class B	Rigid Support	54A	O-ISIN4-103A-2.1				0.500		C03.020.054.

CATEGORY F-A, Supports

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.020.102	2-56-438C-DE008		4-56-02/sht.5	QAL-14	VT-3	NA	8.000		Calclaton No. OS-421.
	Rigid Support	56	O-ISIN4-104A-1.1				0.000		

Class B

Total F01.020 Items: 9

****** Category B, Multi-Directional ******

F01.021.023	2-14B-0-1479A-H11E	0-2RB-21410-04	QAL-14	VT-3	NA	8.000	Calculation No. OSC-1325-09. Inspect with C03.020.021.
	Rigid Restraint	14B O-ISIN4-124B-2.2				1.500	

Class B

F01.021.028	2-14B-0-1439A-DE193	4-14-04/sht.3	QAL-14	VT-3	NA	8.000	Calculation No. OSC-474.
	Rigid Restraint	14B O-ISIN4-124B-2.2				0.000	

Class B

F01.021.053	2-51B-0-436J-DE019	0-2AB-25108-01	QAL-14	VT-3	NA	2.500	Calculation No. OSC-485.
	Rigid Restraint	51B O-ISIN4-101A-2.2				0.000	

Class B

F01.021.063	2-53B-5-0-444-R12	0-2AB-25302-01	QAL-14	VT-3	NA	10.000	Calculation No. OSC-493.
	Rigid Restraint	53B O-ISIN4-102A-2.2				0.000	

Class B

F01.021.073	2-54A-3-0-1444-R3	2-54-03/sht.2	QAL-14	VT-3	NA	8.000	Calculation No. OSC-496. Inspect with C03.020.053.
	Rigid Restraint	54A O-ISIN4-103A-2.1				0.500	

Class B

Total F01.021 Items: 5

**** Category C, Thermal Movement ****

F01.022.001	2-01A-0-1441-H1	2-01-01/sht.1	QAL-14	VT-3	NA	36.000	Calculation No. OSC-440. Inspect with C03.020.001.
	Spring Hgr	01A O-ISIN4-122A-2.1				0.500	

Class B

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.022.011	2-03-0-1479A-H2A		0-1490B-4(S)	QAL-14	VT-3	NA	14.000		Calculation No. OSC-1313-06(Vol.B).
	Constant Support	03	O-ISIN4-121B-2.3				0.000		
	Class B		2-03-05/sht.3						
F01.022.043	2-51A-3-0-1444A-H75		0-2AB-25106-01	QAL-14	VT-3	NA	4.000		Calculation No. OSC-483.
	Spring Hgr	51A	O-ISIN4-101A-2.1				0.000		
	Class B								
F01.022.062	2-54A-3-0-435B-R101		2-54-1/sht.1	QAL-14	VT-3	NA	8.000		Calculation No. OSC-494.
	Hyd Snubber	54A	O-ISIN4-103A-2.1				0.000		
	Class B								
Total F01.022 items:		4							

CATEGORY F-A, Supports

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
**** Category A, One-Directional ****									
F01.030.001	2-01A-4-0-1400H-DJB1001		2-01-06/sht.2	QAL-14	VT-3	NA	6.000		Calculation No. OSC-445.
	Rigid Support	01A	O-ISIN4-122A-2.4				0.000		
Class C									
F01.030.012	2-03A-1-0-1400A-H108		0-2TB-203A12-01	QAL-14	VT-3	NA	6.000		Calculation No. OSC-1213.
	Rigid Support	03A	O-ISIN4-121D-2.1				0.000		
Class C									
F01.030.018	2-03A-1-0-1400A-H88		0-2TB-203A12-01	QAL-14	VT-3	NA	6.000		Calculation No. OSC-1213.
	Rigid Support	03A	O-ISIN4-121D-2.1				0.000		
Class C									
F01.030.023	2-03A-1401B-DE009		2-03A-05/sht.5	QAL-14	VT-3	NA	6.000		Calculation No. OSC-447.
	Rigid Support	03A	O-ISIN4-121D-2.1				0.000		
Class C									
F01.030.041	2-07A-6-0-1400A-H58		0-2TB-20701-01	QAL-14	VT-3	NA	12.000		Calculation No. OSC-467.
	Rigid Support	07A	O-ISIN4-121A-2.8				0.000		
Class C									
Total F01.030 Items: 5									
**** Category B, Multi-Directional ****									
F01.031.012	2-03A-1-0-1401A-SR3		2-03A-05/sht.5	QAL-14	VT-3	NA	6.000		Calculation No. OSC-447.
	Rigid Restraint	03A	O-ISIN4-121D-2.1				0.000		
Class C									
F01.031.016	2-03A-1-0-1400A-H73		0-2TB-203A11-01	QAL-14	VT-3	NA	6.000		Calculation No. OSC-1212.
	Rigid Restraint	03A	O-ISIN4-121D-2.1				0.000		
Class C									
F01.031.022	2-03A-1-0-1439B-H12		2-03A-06/sht.3	QAL-14	VT-3	NA	6.000		Calculation No. OSC-459. Inspect with
	Rigid Restraint	03A	O-ISIN4-121D-2.1				0.216		D01.020.013.
Class C									

CATEGORY F-A, Supports

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.031.051	0-13-447A-H7000		4-13-03/sht.1	QAL-14	VT-3	NA	16.000		Calculation No. OSC-1224-25. Inspect with D01.020.051.
	Rigid Restraint	13	O-ISIN4-133A-2.5				1.000		
Class C									

Total F01.031 Items: 4****** Category C, Thermal Movement ******

F01.032.011	2-03A-1-0-1439B-H31		2-03A-05/sht.4	QAL-14	VT-3	NA	6.000		Calculation No. OSC-447. Inspect with D01.020.014.
	Spring Hgr	03A	O-ISIN4-121D-2.1				0.500		
Class C									
F01.032.021	2-07A-6-0-1400A-H56		0-2TB-20701-01	QAL-14	VT-3	NA	12.000		Calculation No. OSC-467. Inspect with D01.020.031.
	Spring Hgr	07A	O-ISIN4-121A-2.8				0.750		
Class C									
F01.032.041	2-13-7-0-1400A-H9		2-07-02/sht.1	QAL-14	VT-3	NA	12.000		Calculation No. OSC-471.
	Spring Hgr	13	O-ISIN4-133A-2.2				0.000		
Class C									
F01.032.051	2-14B-0-1436A-H28		2-14-06/sht.3	QAL-14	VT-3	NA	16.000		Calculation No. OSC-475. Inspect with D01.020.061.
	Spring Hgr	14B	O-ISIN4-124B-2.1				0.187		
Class C									

Total F01.032 Items: 4

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
*** Class 1, 2, and 3 ***									
F01.040.003	2-PZR-SKIRT		ISI-OCN2-002 O-ISIN4-100A-2.2 OM-1201-456	QAL-14	VT-3	CS	0.000 0.000		Pressurizer Support Stand. Additional Drawing OM-1201-858.
	Class A								
F01.040.005	2-DHRC-A		OM-201-286 O-ISIN4-102A-2.2	QAL-14	VT-3	NA	0.000 0.000		Decay Heat Removal Cooler 2A Support. Support is located on Class C side of Heat Exchanger.
	Class C								
F01.040.006	2-50-RCPM-H6604 Constant Support		OM-201.D-003 O-ISIN4-100A.2.1	QAL-14	VT-3	NA	0.000 0.000		Reactor Coolant Pump 2A1 Motor Support.
	Class A								
F01.040.012	2-LPI-PU-A		OM-1201-1121 O-ISIN4-102A-2.2 OM-201-1704	QAL-14	VT-3	NA	0.000 0.000		Low Pressure Injection Pump 2A Support Pad & Legs.
	Class B								
F01.040.024	2-LDFTR-A		OM-201-0128 O-ISIN4-101A-2.1	QAL-14	VT-3	NA	0.000 0.000		Letdown Filter 2A Support. The examination in outage 1 does not count in the percentages. Work Order 98674855 was written to perform this exam in outage 1. The exam scheduled for outage 6 will count in percentages to meet Section XI requirements.
	Class B								
F01.040.029	2-RB-CC-A		OM-201-3142 O-ISIN4-124B-2.2 OM-235-0513	QAL-14	VT-3	NA	0.000 0.000		Reactor Building Cooling Coils 2A. Additional drawing OM-235-0514.
	Class B								
<hr/>									
Total F01.040 Items:			6						
Total F01 Items:			42						

CATEGORY ELC, Elective Inspections

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H03.001.001 Class B	2FDW-225-22B Circumferential	03	2FDW-225 O-ISIN4-121B-2.3	NDE-600 NDE-940	UT	CS	24.000 1.219		This weld used to be listed as 2-03-18-22B and was shown on isometric 2-03-18. Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
H03.001.002 Class C	2-03-18-22C Circumferential	03	2-03-18 (1) O-ISIN4-121B-2.3	NDE-600 NDE-940	UT	CS	24.000 1.219		Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
H03.001.003 Class C	2-03-18-23A Circumferential	03	2-03-18 (1) O-ISIN4-121B-2.3	NDE-600 NDE-940	UT	CS	24.000 1.219		Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
H03.001.004 Class C	2-03-18-23G Circumferential	03	2-03-18 (1) O-ISIN4-121B-2.3	NDE-600 NDE-940	UT	CS	24.000 1.219		Weld 2-03-18-23A is a Pipe to elbow weld located on iso 2-03-18(1). Weld 2-03-18-23G is a Grinnell Subassembly (elbow to pipe) weld located on the opposite end of the elbow from weld 1-03-18-23A. Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
H03.001.005 Class C	2-03-18-24 Circumferential	03	2-03-18 (1) O-ISIN4-121B-2.3	NDE-600 NDE-940	UT	CS	24.000 1.219		Procedure NDE-600 should be used for angle beam inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.
H03.001.006 Class C	2-03-18-24G Circumferential	03	2-03-18 (1) O-ISIN4-121B-2.3	NDE-600 NDE-940	UT	CS	24.000 1.219		Weld 2-03-18-24 is a Pipe to elbow weld located on iso 2-03-18(1). Weld 2-03-18-24G is a Grinnell Subassembly (elbow to pipe) weld located on the opposite end of the elbow from weld 1-03-18-24. Procedure NDE-600 should be used for angle beam

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									inspection and Procedure NDE-940 should be used for thickness measurements on this weld. Inspection results should be forwarded to Timothy D. Brown of the Oconee Design Basis Group.

Total H03.001 Items: 6**Total H03 Items: 6**

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
H04.001.001 Class B	2-03-0-1439B-H62 Rigid Support	03	2-03-01/sht.1 O-ISIN4-121B-2.3	QAL-14	VT-3	NA	24.000 0.375		Calculation No. OSC-454. Inspect with item number H04.001.001A.
H04.001.001A Class B	2-03-0-1439B-H62 Rigid Support	03	2-03-01/sht.1 O-ISIN4-121B-2.3	NDE-35	PT	NA	24.000 0.375		Calculation No. OSC-454. Inspect along with item number H04.001.001. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.003 Class C	2-03-0-1439B-H53 Spring Hgr	03	2-03-01/sht.1 O-ISIN4-121B-2.3	QAL-14	VT-3	NA	24.000 0.000		Calculation No. OSC-454.
H04.001.005 Class C	2-03-0-551-H51 Rigid Support	03	2-03-01/sht.1 O-ISIN4-121B-2.3	QAL-14	VT-3	NA	24.000 1.500		Calculation No. OSC-454. Inspect with item number H04.001.005A
H04.001.005A Class C	2-03-0-551-H51 Rigid Support	03	2-03-01/sht.1 O-ISIN4-121B-2.3	NDE-35	PT	NA	24.000 1.500		Calculation No. OSC-454. Inspect along with item number H04.001.005. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid penetrant examinations.
H04.001.006 Class C	2-03-0-1401A-R8 Rigid Support	03	2-03-01/sht.1 O-ISIN4-121B-2.3	QAL-14	VT-3	NA	24.000 0.322		Calculation No. OSC-454. Inspect with item number H04.001.006A.
H04.001.006A Class C	2-03-0-1401A-R8 Rigid Support	03	2-03-01/sht.1 O-ISIN4-121B-2.3	NDE-35	PT	NA	24.000 0.322		Calculation No. OSC-454. Inspect along with item number H04.001.006. Perform a Surface exam on the attachment welds. Note: Magnetic Particle examinations (with the use of procedure NDE-25) may be performed on carbon steel material in lieu of or in conjunction with liquid

CATEGORY ELC, Elective Inspections

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ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
									penetrant examinations.
H04.001.007	2-03-0-551-H50		2-03-01/sht.1	QAL-14	VT-3	NA	24.000		Calculation No. OSC-454.
	Spring Hgr	03	O-ISIN4-121B-2.3				0.500		Inspect with item number H04.001.007A.
Class C									
H04.001.007A	2-03-0-551-H50		2-03-01/sht.1	NDE-35	PT	NA	24.000		Calculation No. OSC-454.
	Spring Hgr	03	O-ISIN4-121B-2.3				0.500		Inspect along with item number H04.001.007.
Class C									Perform a Surface exam on the attachment welds.
									Note: Magnetic Particle examinations (with the use
									of procedure NDE-25) may be performed on carbon
									steel material in lieu of or in conjunction with liquid
									penetrant examinations.
H04.001.044	2-01A-0-1401B-H21		2-01-01/sht.2	QAL-14	VT-3	NA	36.000		Calculation No. OSC-440.
	Rigid Support	01A	O-ISIN4-122A-2.1				0.000		Inspect with item number F01.020.002.
Class B									
Total H04.001 Items:	10								
Total H04 Items:	10								

4.0 Results Of Inspections Performed

The results of each examination shown in the final Inservice Inspection Plan (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:

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

4.1 Reportable Indications

EOC 21 (Outage 1) did not have any reportable indications during this report period.

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 problems 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

Limited examinations (i.e., less than or equal to 90% of the required examination coverage obtained) identified during EOC 21 (Outage 1) are shown in the table below.

A Request for Relief will be submitted to seek NRC acceptance of the limited coverage for the items listed in the table below.

<u>Item Number</u>	<u>Description of Limitation</u>
B03.150.001	Coverage limitation (29.26%)
B03.150.002	Coverage limitation (29.26%)
C05.011.001	Coverage limitation (72.40%)
C05.021.026	Coverage limitation (37.50%)
C05.021.027	Coverage limitation (37.50%)
C05.021.028	Coverage limitation (37.50%)
C05.021.073	Coverage limitation (79.15%)

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B02.011.001	2-PZR-WP76	50	10/28/2005	REC	---	N	N	The recordable indication that was found was acceptable per ASME Section XI, Paragraph IWB-3510, of the 1998 Edition through the 2000 Addenda. PIP O-05-06919 was written to document problems found during the review of documentation from a previous exam that was performed in 1996.
B02.012.001	2-PZR-WP1-1	50	10/28/2005	CLR	---	N	N	
B03.150.001	2-LDCA-IN-V1	51A	11/01/2005	CLR	29.26%	N	Y	Relief Request will be filed for the limitation.
B03.150.002	2-LDCA-OUT-V2	51A	11/01/2005	CLR	29.26%	N	Y	Relief Request will be filed for the limitation.
B03.160.001	2-LDCA-IN-V1	51A	/ /		---	N	N	Relief Request 04-ON-015 was filed to allow us to exempt the examination for this item during the fourth interval.
B03.160.002	2-LDCA-OUT-V2	51A	/ /		---	N	N	Relief Request 04-ON-015 was filed to allow us to exempt the examination for this item during the fourth interval.
B06.010.001	2-RPV-26-204-01	50	11/02/2005	CLR	---	N	N	
B06.010.002	2-RPV-26-204-02	50	11/02/2005	CLR	---	N	N	
B06.010.003	2-RPV-26-204-03	50	11/02/2005	CLR	---	N	N	
B06.010.004	2-RPV-26-204-04	50	11/02/2005	CLR	---	N	N	
B06.010.005	2-RPV-26-204-05	50	11/02/2005	CLR	---	N	N	
B06.010.006	2-RPV-26-204-06	50	11/02/2005	CLR	---	N	N	
B06.010.007	2-RPV-26-204-07	50	11/02/2005	CLR	---	N	N	
B06.010.008	2-RPV-26-204-08	50	11/02/2005	CLR	---	N	N	
B06.010.009	2-RPV-26-204-09	50	11/02/2005	CLR	---	N	N	
B06.010.010	2-RPV-26-204-10	50	11/02/2005	CLR	---	N	N	
B06.010.011	2-RPV-26-204-11	50	11/02/2005	CLR	---	N	N	
B06.010.012	2-RPV-26-204-12	50	11/02/2005	CLR	---	N	N	
B06.010.013	2-RPV-26-204-13	50	10/29/2005	CLR	---	N	N	
B06.010.014	2-RPV-26-204-14	50	10/29/2005	CLR	---	N	N	
B06.010.015	2-RPV-26-204-15	50	10/29/2005	CLR	---	N	N	
B06.010.016	2-RPV-26-204-16	50	10/29/2005	CLR	---	N	N	
B06.010.017	2-RPV-26-204-17	50	10/29/2005	CLR	---	N	N	
B06.010.018	2-RPV-26-204-18	50	10/29/2005	CLR	---	N	N	
B06.010.019	2-RPV-26-204-62	50	10/29/2005	CLR	---	N	N	
B06.010.020	2-RPV-26-204-20	50	10/29/2005	CLR	---	N	N	
B06.030.001	2-RPV-25-204-01	50	11/02/2005	CLR	---	N	N	
B06.030.002	2-RPV-25-204-02	50	11/02/2005	CLR	---	N	N	
B06.030.003	2-RPV-25-204-03	50	11/02/2005	CLR	---	N	N	
B06.030.004	2-RPV-25-204-64	50	11/02/2005	CLR	---	N	N	

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B06.030.005	2-RPV-25-204-05	50	11/02/2005	CLR	---	N	N	
B06.030.006	2-RPV-25-204-06	50	11/02/2005	CLR	---	N	N	
B06.030.007	2-RPV-25-204-07	50	11/02/2005	CLR	---	N	N	
B06.030.008	2-RPV-25-204-08	50	11/02/2005	CLR	---	N	N	
B06.030.009	2-RPV-25-204-09	50	11/02/2005	CLR	---	N	N	
B06.030.010	2-RPV-25-204-10	50	11/02/2005	CLR	---	N	N	
B06.030.011	2-RPV-25-204-11	50	11/02/2005	CLR	---	N	N	
B06.030.012	2-RPV-25-204-12	50	11/02/2005	CLR	---	N	N	
B06.030.013	2-RPV-25-204-13	50	10/29/2005	CLR	---	N	N	
B06.030.014	2-RPV-25-204-14	50	10/29/2005	CLR	---	N	N	
B06.030.015	2-RPV-25-204-15	50	10/29/2005	CLR	---	N	N	
B06.030.016	2-RPV-25-204-16	50	10/29/2005	CLR	---	N	N	
B06.030.017	2-RPV-25-204-17	50	10/29/2005	CLR	---	N	N	
B06.030.018	2-RPV-25-204-18	50	10/29/2005	CLR	---	N	N	
B06.030.019	2-RPV-25-204-19	50	10/29/2005	CLR	---	N	N	
B06.030.020	2-RPV-25-204-20	50	10/29/2005	CLR	---	N	N	
B06.050.001	2-RPV-WASH-BUSH	50	11/02/2005	CLR	---	N	N	Washers and bushings for stud holes 1 thru 12 were inspected on 11-02-2005 by LP. Washers and bushings for stud holes 13 thru 20 were inspected on 10-29-2005 by JH.
B07.020.001	2-PZR-UHB-STUDS	50	10/25/2005	CLR	---	N	N	
B07.030.001	2-SGA-UMW-STUDS	50	10/30/2005	CLR	---	N	N	
B07.030.002	2-SGA-LMW-STUDS	50	10/30/2005	CLR	---	N	N	
B07.050.001	2-PZR-RC4-STUDS	50	10/28/2005	CLR	---	N	N	
B07.070.003	2-53A-CF13-STUDS	53A	10/28/2005	CLR	---	N	N	
B09.011.001	2-PSL-8	50	10/31/2005	CLR	---	N	N	
B09.011.001A	2-PSL-8	50	10/30/2005	CLR	---	N	N	
B09.011.030	2-PIB2-4	50	10/27/2005	CLR	---	N	N	
B09.011.030A	2-PIB2-4	50	10/27/2005	CLR	---	N	N	
B09.011.203	2LP-189-1	53A	11/04/2005	CLR	92.30%	N	N	
B09.011.203A	2LP-189-1	53A	11/03/2005	CLR	---	N	N	
B09.011.208	2-53A-8-48	53A	11/03/2005	CLR	---	N	N	
B09.011.208A	2-53A-8-48	53A	11/03/2005	CLR	---	N	N	
B09.011.209	2-53A-8-50	53A	11/03/2005	CLR	---	N	N	
B09.011.209A	2-53A-8-50	53A	11/03/2005	CLR	---	N	N	
B09.021.004	2-PDA1-11	50	10/26/2005	CLR	---	N	N	
B09.021.010	2-PIB1-11	50	10/29/2005	CLR	---	N	N	
B09.021.123	2-51A-147-17	51A	10/30/2005	CLR	---	N	N	

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B09.021.134	2-51A-35-43	51A	10/30/2005	CLR	---	N	N	
B09.021.135	2-51A-35-55	51A	10/30/2005	CLR	---	N	N	
B09.021.136	2-51A-35-56	51A	10/30/2005	CLR	---	N	N	
B09.021.201	2LP-151-1	53A	11/03/2005	CLR	---	N	N	
B09.032.004	2-PDB1-12	50	10/27/2005	CLR	---	N	N	
B09.032.201	2LP-151-21	53A	11/03/2005	CLR	---	N	N	
B09.040.002	2RC-271-13A	50	11/03/2005	CLR	---	N	N	
B09.040.007	2-50-7-124	50	10/26/2005	CLR	---	N	N	
B10.020.001	2-50-0-1481A-H3	50	10/30/2005	CLR	---	N	N	
B10.020.031	2-53A-0-1479A-H8B	53A	11/04/2005	CLR	---	N	N	
B13.010.001	2-RPV-INT-SURFACE	50	10/30/2005	CLR	---	N	N	
B14.010.003	2-RPV-CRD-63WH9	50	10/31/2005	CLR	---	N	N	
B14.010.006	2-RPV-CRD-63W60	50	10/31/2005	CLR	---	N	N	
B14.010.009	2-RPV-CRD-63	50	10/31/2005	CLR	---	N	N	
B14.010.012	2-RPV-CRD-63W61	50	10/31/2005	CLR	---	N	N	
C02.031.001	2-LPCB-INLET		08/23/2005	CLR	---	N	N	
C02.031.002	2-LPCB-OUTLET		08/23/2005	CLR	---	N	N	
C03.010.003	2-RCSR-COOLER-A		11/07/2005	CLR	---	N	N	
C03.020.001	2-01A-0-1441-H1	01A	11/05/2005	CLR	---	N	N	
C03.020.013	2-03A-1439A-RL-0901	03A	08/15/2005	CLR	---	N	N	
C03.020.021	2-14B-0-1479A-H11E	14B	11/09/2005	CLR	---	N	N	
C03.020.045	2-53B-2-0-436E-H10	53B	08/16/2005	CLR	---	N	N	
C03.020.053	2-54A-3-0-1444-R3	54A	08/18/2005	CLR	---	N	N	
C03.020.054	2-54A-3-0-1444-H1	54A	08/17/2005	CLR	---	N	N	
C05.011.001	2LP-148-16	53A	11/04/2005	CLR	72.40%	N	Y	Relief Request will be filed for the limitation.
C05.011.001A	2LP-148-16	53A	11/03/2005	CLR	---	N	N	
C05.011.002	2LP-148-17	53A	08/17/2005	CLR	---	N	N	
C05.011.002A	2LP-148-17	53A	08/17/2005	CLR	---	N	N	
C05.011.003	2LP-148-18	53A	08/17/2005	CLR	---	N	N	
C05.011.003A	2LP-148-18	53A	08/17/2005	CLR	---	N	N	
C05.021.001	2-RCP-FTR2A-SH-1	51A	10/29/2005	REC	---	N	N	All indication sizes noted are < 12.5 surface flaw a/t % per appendix A, Figure B of NDE 12. Acceptable per IWB-3514.3, Table IWB-3514-2.
C05.021.001A	2-RCP-FTR2A-SH-1	51A	11/04/2005	CLR	---	N	N	
C05.021.002	2-RCP-FTR2A-SH-2	51A	10/29/2005	CLR	---	N	N	
C05.021.002A	2-RCP-FTR2A-SH-2	51A	11/04/2005	CLR	---	N	N	
C05.021.006	2-51A-129-9	51A	08/16/2005	CLR	---	N	N	

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C05.021.006A	2-51A-129-9	51A	08/15/2005	CLR	---	N	N	
C05.021.024	2-51A-17-100A	51A	08/22/2005	CLR	---	N	N	
C05.021.024A	2-51A-17-100A	51A	08/19/2005	CLR	---	N	N	
C05.021.025	2-51A-17-101	51A	08/22/2005	CLR	---	N	N	
C05.021.025A	2-51A-17-101	51A	08/19/2005	CLR	---	N	N	
C05.021.026	2-51A-17-111	51A	08/22/2005	CLR	37.50%	N	Y	Relief Request will be filed for the limitation.
C05.021.026A	2-51A-17-111	51A	08/19/2005	CLR	---	N	N	
C05.021.027	2HP-227-3	51A	08/22/2005	CLR	37.50%	N	Y	Relief Request will be filed for the limitation.
C05.021.027A	2HP-227-3	51A	08/19/2005	CLR	---	N	N	
C05.021.028	2HP-227-7	51A	08/22/2005	CLR	37.50%	N	Y	Relief Request will be filed for the limitation.
C05.021.028A	2HP-227-7	51A	08/19/2005	CLR	---	N	N	
C05.021.073	2-51A-28-67	51A	08/16/2005	CLR	79.15%	N	Y	Relief Request will be filed for the limitation.
C05.021.073A	2-51A-28-67	51A	08/15/2005	CLR	---	N	N	
C05.021.074	2-51A-28-69	51A	08/16/2005	CLR	---	N	N	
C05.021.074A	2-51A-28-69	51A	08/15/2005	CLR	---	N	N	
C05.021.075	2-51A-33-10	51A	11/04/2005	CLR	---	N	N	
C05.021.075A	2-51A-33-10	51A	11/03/2005	CLR	---	N	N	
C05.021.076	2-51A-33-13	51A	11/04/2005	CLR	---	N	N	
C05.021.076A	2-51A-33-13	51A	11/03/2005	CLR	---	N	N	
C05.021.081	2-51A-27-3	51A	08/18/2005	CLR	---	N	N	
C05.021.081A	2-51A-27-3	51A	08/18/2005	CLR	---	N	N	
C05.021.087	2-51A-27-21	51A	08/18/2005	CLR	---	N	N	
C05.021.087A	2-51A-27-21	51A	08/18/2005	CLR	---	N	N	
C05.021.093	2-51A-28-30	51A	11/06/2005	CLR	---	N	N	
C05.021.093A	2-51A-28-30	51A	11/04/2005	CLR	---	N	N	
C05.021.099	2HP-212-24	51A	11/04/2005	CLR	---	N	N	
C05.021.099A	2HP-212-24	51A	11/04/2005	CLR	---	N	N	
C05.030.001	2-51B-18-48	51B	11/05/2005	CLR	---	N	N	
C05.030.007	2LP-98-10	53B	08/23/2005	CLR	---	N	N	
C05.030.008	2LP-97-13	53B	08/23/2005	CLR	---	N	N	
C05.030.009	2HP-451-44	51A	08/19/2005	CLR	---	N	N	
C05.041.001	2LP-96-13	53B	08/23/2005	CLR	---	N	N	
C05.051.007	2MS-124-69V	01A	11/01/2005	CLR	---	N	N	
C05.051.007A	2MS-124-69V	01A	11/01/2005	CLR	---	N	N	
C05.051.008	2MS-124-72V	01A	11/01/2005	CLR	---	N	N	
C05.051.008A	2MS-124-72V	01A	11/01/2005	CLR	---	N	N	

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C05.051.026	2-14B-48-109	14B	08/16/2005	CLR	---	N	N	
C05.051.026A	2-14B-48-109	14B	08/15/2005	CLR	---	N	N	
C05.051.027	2-14B-48-111	14B	08/16/2005	CLR	---	N	N	
C05.051.027A	2-14B-48-111	14B	08/15/2005	CLR	---	N	N	
C05.051.028	2-14B-48-112	14B	08/16/2005	CLR	---	N	N	
C05.051.028A	2-14B-48-112	14B	08/15/2005	CLR	---	N	N	
C05.051.029	2-14B-48-3	14B	08/16/2005	CLR	---	N	N	
C05.051.029A	2-14B-48-3	14B	08/15/2005	CLR	---	N	N	
C05.051.030	2-14B-48-4	14B	08/16/2005	CLR	---	N	N	
C05.051.030A	2-14B-48-4	14B	08/15/2005	CLR	---	N	N	
D01.020.013	2-03A-1-0-1439B-H12	03A	08/18/2005	CLR	---	N	N	
D01.020.014	2-03A-1-0-1439B-H31	03A	08/30/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D01.020.031	2-07A-6-0-1400A-H56	07A	08/22/2005	CLR	---	N	N	
D01.020.051	0-13-447A-H7000	13	09/06/2005	CLR	---	N	N	
D01.020.061	2-14B-0-1436A-H28	14B	08/10/2005	CLR	---	N	N	
F01.010.015	2-51A-0-1479A-H9B	51A	10/28/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.010.016	2-51A-0-1479A-H4A	51A	11/01/2005	CLR	---	N	N	
F01.011.032	2-53A-0-1481A-H28C	53A	10/28/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.012.002	2-50-0-1481A-H3	50	11/15/2005	CLR	---	N	N	
F01.012.032	2-53A-0-1479A-H8B	53A	11/01/2005	CLR	---	N	N	
F01.020.002	2-01A-0-1401B-H21	01A	10/26/2005	CLR	---	N	N	
F01.020.014	2-03A-1439A-RL-0901	03A	08/16/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.020.049	2-51A-3-0-1439A-H77	51A	08/18/2005	CLR	---	N	N	
F01.020.054	2-51A-435C-DE008	51A	08/10/2005	CLR	---	N	N	
F01.020.071	2-53B-2-0-436E-H10	53B	08/10/2005	CLR	---	N	N	
F01.020.076	2-53B-0-435B-DE016	53B	08/10/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98358513 was written to correct problems.
F01.020.091	2-54A-435B-DE15	54A	08/10/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil

DUKE ENERGY CORPORATION
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EOC 21
Plant: Oconee 2

ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
								engineering and the support was found to be acceptable for service. Work Order # 98358609 was written to correct problems.
F01.020.097	2-54A-3-0-1444-H1	54A	08/16/2005	CLR	---	N	N	
F01.020.102	2-56-438C-DE008	56	08/16/2005	CLR	---	N	N	
F01.021.023	2-14B-0-1479A-H11E	14B	11/08/2005	CLR	---	N	N	
F01.021.028	2-14B-0-1439A-DE193	14B	08/18/2005	CLR	---	N	N	
F01.021.053	2-51B-0-436J-DE019	51B	10/28/2005	CLR	---	N	N	
F01.021.063	2-53B-5-0-444-R12	53B	08/18/2005	CLR	---	N	N	
F01.021.073	2-54A-3-0-1444-R3	54A	08/16/2005	CLR	---	N	N	
F01.022.001	2-01A-0-1441-H1	01A	11/09/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98360872 was written to correct problems.
F01.022.011	2-03-0-1479A-H2A	03	11/01/2005	CLR	---	N	N	
F01.022.043	2-51A-3-0-1444A-H75	51A	08/16/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98358603 was written to correct problems.
F01.022.062	2-54A-3-0-435B-R101	54A	08/10/2005	CLR	---	N	N	
F01.030.001	2-01A-4-0-1400H-DJB1	01A	08/22/2005	CLR	---	N	N	
F01.030.012	2-03A-1-0-1400A-H108	03A	08/22/2005	CLR	---	N	N	
F01.030.018	2-03A-1-0-1400A-H88	03A	08/22/2005	CLR	---	N	N	
F01.030.023	2-03A-1401B-DE009	03A	08/22/2005	CLR	---	N	N	
F01.030.041	2-07A-6-0-1400A-H58	07A	08/22/2005	CLR	---	N	N	
F01.031.012	2-03A-1-0-1401A-SR3	03A	08/22/2005	CLR	---	N	N	
F01.031.016	2-03A-1-0-1400A-H73	03A	08/22/2005	CLR	---	N	N	
F01.031.022	2-03A-1-0-1439B-H12	03A	08/18/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.031.051	0-13-447A-H7000	13	09/06/2005	CLR	---	N	N	
F01.032.011	2-03A-1-0-1439B-H31	03A	08/30/2005	CLR	---	N	N	
F01.032.021	2-07A-6-0-1400A-H56	07A	08/22/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98358508 was written to correct problems.
F01.032.041	2-13-7-0-1400A-H9	13	08/22/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.032.051	2-14B-0-1436A-H28	14B	08/10/2005	CLR	---	N	N	
F01.040.003	2-PZR-SKIRT		10/25/2005	CLR	---	N	N	

DUKE ENERGY CORPORATION
 QUALITY ASSURANCE TECHNICAL SERVICES
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 Oconee 2 Inservice Inspection Listing
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 Plant: Oconee 2

Run D
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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
F01.040.005	2-DHRC-A		08/09/2005	CLR	---	N	N	
F01.040.006	2-50-RCPM-H6604		11/01/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98360130 was written to correct problems.
F01.040.012	2-LPI-PU-A		08/10/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98693574 and 98325040 were written to correct problems.
F01.040.024	2-LDFTR-A		11/07/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98360898 was written to correct problems. This exam does not count in the outage 1 percentages.
F01.040.029	2-RB-CC-A		10/28/2005	CLR	---	N	N	
H03.001.001	2FDW-225-22B	03	11/12/2005	CLR	---	Y	N	Indication #1 is a geometric reflector due to Backing Ring.
H03.001.002	2-03-18-22C	03	11/12/2005	CLR	---	Y	N	Indications # 1 and 2 are geometric reflectors due to backing ring.
H03.001.003	2-03-18-23A	03	11/12/2005	CLR	---	Y	N	Indications # 1 and 2 are geometric reflectors due to backing ring.
H03.001.004	2-03-18-23G	03	11/12/2005	CLR	---	Y	N	Indications # 1 and 2 are geometric reflectors due to backing ring.
H03.001.005	2-03-18-24	03	11/12/2005	CLR	---	Y	N	Indications # 1 and 2 are geometric reflectors due to backing ring.
H03.001.006	2-03-18-24G	03	11/12/2005	CLR	---	Y	N	Indications # 1 and 2 are geometric reflectors due to backing ring.
H04.001.001	2-03-0-1439B-H62	03	11/09/2005	REC	---	N	N	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98360883 was written to correct problems.
H04.001.001A	2-03-0-1439B-H62	03	11/11/2005	CLR	---	N	N	
H04.001.003	2-03-0-1439B-H53	03	08/16/2005	CLR	---	N	N	
H04.001.005	2-03-0-551-H51	03	10/26/2005	CLR	---	N	N	
H04.001.005A	2-03-0-551-H51	03	11/07/2005	CLR	---	N	N	
H04.001.006	2-03-0-1401A-R8	03	11/01/2005	CLR	---	N	N	
H04.001.006A	2-03-0-1401A-R8	03	11/07/2005	CLR	---	N	N	
H04.001.007	2-03-0-551-H50	03	10/26/2005	CLR	---	N	N	
H04.001.007A	2-03-0-551-H50	03	11/07/2005	CLR	---	N	N	
H04.001.044	2-01A-0-1401B-H21	01A	11/02/2005	CLR	---	N	N	

5.0 Owner's Report for Repair and Replacement Activities

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

Due to station processing and approval time frames, three categories of repair and replacement documentation exist for: 1) work performed during a prior refueling cycle; 2) work performed during the current refueling cycle; and 3) work completed but documentation not yet reviewed and approved.

There were 28 work orders for category 1 repair and replacement documentation for this reporting period. Work Orders 98540409, 98540880, 98540875, 98540889, 98539671, 98539673, 98532391, 98532393, 98530942, 98530949, 98516356, 98516357, 98516899, 98516911, 98532818, 98532820, 98537912, 98537914, 98541036, 98621223, 98648846, 98540919, 98644159, 98540909, 98540994, 98624546, 98617114, and 98616047 had work completed prior to 6-15-2004 and copies of the NIS-2 forms are included in this report. Twenty-five of the work orders are associated with the Steam Generator Replacements and the NIS-2 forms associated with this work are the first 148 pages that immediately follow this page. Three of the work orders are associated with the Reactor Vessel Head Replacements and the NIS-2 forms associated with this work consist of 17 pages that follow the 148 pages from the steam generator replacement NIS-2 forms. PIP O-04-05070 and PIP O-04-04879 were written at the end of the Unit 2 EOC-20 refueling outage to document the late submittal for the NIS-2 forms associated with the 28 work orders listed previously in this paragraph.

Category 2 had 59 NIS-2 forms for work orders completed during this reporting period. Copies of the NIS-2 forms are included in this section of the report.

There were no items for Category 3 during this reporting period.

The individual work request documents and manufacturers' data reports are on file at Oconee 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 ISI Class 2 items during this report period. There are two lists for PSI exams that were performed and both lists are located behind the NIS-2 forms in this section. The first list has two pages and is entitled "Steam Generator Preservice Weld Examination". The second list has one page and is entitled "Preservice Examinations of Class 1 & 2 Welds". PSI examination data for items on the two lists previously mentioned are on file in the Oconee Nuclear Station QA Vault.

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 33

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98540409, 98540880, 98540875, 98540889
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AS6 WP 22570A, 23040A,
22570B, 23040B, 23065A, 23065B

4. Identification of System Reactor Coolant System Class 1

5. (a) Applicable Construction Code ASME III 1989 Edition N/A Addenda, No Addenda /Code Cases N-20-4, N-474-2, 2142-1, 2143-1
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Steam Generator	Babcock & Wilcox Co. Barberton, Ohio	620-0004-55 #1	107	SG 2A	1971	<input type="checkbox"/> Repaired <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
B	Steam Generator	Babcock & Wilcox of Canada, Cambridge, Ontario	006K03	207	SG 2A	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
C	Steam Generator	Babcock & Wilcox Co. Barberton, Ohio	620-0004-55 #2	108	SG 2B	1971	<input type="checkbox"/> Repaired <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
D	Steam Generator	Babcock & Wilcox of Canada, Cambridge, Ontario	006K04	208	SG 2B	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Sheet 2 of 33

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

7. Description of Work Replaced Unit 2 A & B Steam Generators

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Removed Unit 2 steam generators 2A (620-0004-55 #1) and 2B (620-0004-55 #2) made by B&W of Barberton, Ohio and replaced with 2A (006K03) and 2B (006K04) made by B&W Canada of Cambridge, Ontario. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed [Signature]

Date 09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-13-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

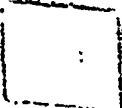

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury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

[Signature]
Inspector's Signature

Commissions NCFSS, N, I

National Board, State, Providence and Endorsements

Date 9-29-04

 CLASS A		NATL BOARD N-107
THE BABCOCK & WILCOX COMPANY USA		
DUKE POWER		
GENERATOR		
MANUFACTURER SERIAL NO. 520-0004-55	UNIT NO. 1	
DESIGN PRESSURE	PRIMARY SIDE	SEC. SIDE
DESIGN TEMPERATURE	2500 PSI	1050 PSI
HYDROSTATIC	650° F	500° F
MIN. PRESSURIZATION TEMP.	100° F	100° F
DATE BUILT 1971		

FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 6

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3
(name and address of N Certificate Holder)

2. Manufactured for Duke Power Company, P.O. Box 1006, Charlotte, North Carolina, 28201-1006
(name and address of Purchaser)

3. Location of installation Oconee 2, Seneca, South Carolina
(name and address)

4. Type: Vert. Heat Ex. 006KO3 005KE001 Rev. 4 & E002 Rev. 1 207 2003
(horiz. or vert.) (tank, jacketed, heat ex.) (Cert. Holder's serial no.) (CRN) (drawing no.) (part ID, lot) (year built)

5. ASME Code, Section III, Division 1: 1989 None 1 List #1 Alt.
(edition) (addenda date) (class) (Code Case no.)

Items 6 - 10 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

6. Shell SA-508 Cl. 3a 90 ksi List #2 Alt. List #2 Alt. List #2 Alt. List #2 Alt.
(mat'l spec. no.) (tensile strength) (min. thickness (in.)) (min. design thickness (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))

7. Seams: List #3 Alt. List #3 Alt. List #3 Alt. List #3 Alt. List #3 Alt. List #3 Alt. List #3 Alt. 4
(long.) (HT) (RT) (eff. %) (grth) (HT) (RT) (no. of courses)

8. Heads: --- --- --- ---
((a) mat'l spec. no.) (tensile strength) ((b) mat'l spec. no.) (tensile strength)

	Location (top bottom, ends)	Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Radius	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	---	---	---	---	---	---	---	---	---	---
(b)	---	---	---	---	---	---	---	---	---	---

If removable bolts used: --- Other fastening ---
(mat'l spec. no., size, quantity) (describe or attach sketch)

9. Jacket Closure: ---
(Describe is gage & weld, etc. If bar, give dimensions, describe, or sketch)

10. Design pressure² 1150 At max. temp. 600 Min. pressure test temp. 70 Pneu., hydro., or combined test 1500
(psi) (°F) (°F) (psi)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SA-508 Cl. 3a 137% 22-3/16 welded
(stationary, mat'l spec. no.) (dia. in. (subject to pressure)) (thickness (in.)) (attachment (welded, bolted))

--- --- --- ---
(floating, mat'l spec.) (dia. (in.)) (thickness (in.)) (attachment)

12. Tubes SB-163 UNS N06690 % 0.038 15631 straight
(mat'l spec. no.) (OD (in.)) Thickness (inches or gage) (no.) (type (straight or U))

Items 13 to 16 inclusive to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

13. Shell: --- --- --- --- --- ---
(mat'l spec. no.) (tensile strength) (min. thickness (in.)) (min. design thickness (in.)) (dia. (ft. & in.)) (length (overall) (ft. & in.))

14. Seams --- --- --- --- Single Yes Full 1
(long (welded, bolt, single)) (HT (yes or no)) (RT) (eff. %) (grth) (HT) (RT) (no. of courses)

15. Heads --- --- SA-508 Cl. 3a 90 ksi --- ---
((a) mat'l spec.) (tensile strength) ((b) mat'l spec. no.) (tensile strength) ((c) mat'l spec. no.) (tensile strength)

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a) Top, bottom, ends	---	---	---	---	---	---	---	---
(b) Channel - top	6 3/4"	---	---	1:1	---	59-17/32"	---	concave
Channel - bottom	6 3/4"	---	---	1:1	---	59-17/32"	---	concave
(c) Floating	---	---	---	---	---	---	---	---

If removable, bolts used --- Other fastening ---
(mat'l spec. no., size, quantity) (describe or attach sheet)

16. Design pressure² 2500 at 650 Min. pressure-test temp. 70 Pneu., hydro., or comb. Test pressure 3125
(psi) (°F) (°F) (psi)

- * If post weld heat treated. ² List other internal or external pressure with coincident temperature when applicable.
 * Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 X 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded on the top of this form.

REVIEWED
 11/4/2003

006K03

19. Remarks: Previous N-2 Forms for the Primary Heads (Manufactured by Japan Steel Works, Muroran Plant, National Board Number 432 and 433) attached.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Natl. Bd. (incl. endorsements) and state or prov. and no.)

Attachment to FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS
As Required by the Provisions of the ASME Code, Section III, Division 1

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1. Manufactured and certified by	Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3 <small>(name and address of N Certificate Holder)</small>					
2. Manufactured for	Duke Power Company, P.O. Box 1006, North Carolina, 28201-1006 <small>(name and address of Purchaser)</small>					
3. Location of installation	Oconee 2, Seneca, South Carolina <small>(name and address)</small>					
4. Type:	Vertical <small>(horiz. or vert.)</small>	Heat Exchanger <small>(tank, jacketed, heat ex.)</small>	006K03 <small>(Cert. Holder's issue no.)</small>	006KE001 Rev. 4 & 006KE002 Rev. 1 <small>(drawing no.)</small>	207 <small>(NAT B.I. No.)</small>	2003 <small>(year built)</small>

List #1

N-20-4
N-474-2
2142-1
2143-1

List #2

	Nominal Thickness	Min. Design Thickness	Inner Diameter	Length (per section thickness)	Length Overall
Shell can below upper T/S (thick shell, adjacent to T/S, taper to thin shell)	5 1/4" 3 1/4"	5" 3"	137 1/4" 137 1/4"	52 3/4" 79 1/16"	131 13/16"
Thin Shell to Thick to Thin	3 1/4" 5 1/4" 3 1/4"	3" 5" 3"	137 1/4" 137 1/4" 137 1/4"	19 1/4" 112 3/4" 27 1/2"	159 1/4"
Thin Shell	3 1/4"	3"	137 1/4"	—	173 3/8"
Shell Can Above Lower T/S (thin shell taper to thick shell, adjacent to T/S)	3 1/4" 5 1/4"	3" 5"	137 1/4" 137 1/4"	106 7/16" 52 1/2"	159 3/16"

Attachment to FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS
As Required by the Provisions of the ASME Code, Section III, Division 1

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1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3
(name and address of N Certificate Holder)

2. Manufactured for Duke Power Company, P.O. Box 1006, North Carolina, 28201-1006
(name and address of Purchaser)

3. Location of Installation Oconee 2, Seneca, South Carolina
(name and address)

4. Type: Vertical Heat Exchanger 006K03 006KE001 Rev. 4 & 006KE002 Rev. 1 207 2003
(vert. or horz.) (tank, jacketed, heat ex.) (Cert. Holder's serial no.) (CRN) (drawing no.) (ASME Ed. No.) (year built)

List #3

Seam	Longitudinal Joint Type	HT	RT	eff (%)	Girth Joint Type	HT	RT
Tubesheet (Forging)	N/A	N/A	N/A	N/A	Double	Yes	Full
Shell Can #1	None	Yes	Full	100		Yes	Full
Shell Can #2	None	Yes	Full	100		Yes	Full
Shell Can #3	None	Yes	Full	100		Yes	Full
Shell Can #4	None	Yes	Full	100		Yes	Full
Tubesheet (Forging)	N/A	N/A	N/A	N/A	Double	Yes	Full

Attachment to FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 5 of 8

1. Manufactured and certified by	<u>Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3</u> <small>(name and address of N Certificate Holder)</small>					
2. Manufactured for	<u>Duke Power Company, P.O. Box 1006, North Carolina, 28201-1006</u> <small>(name and address of Purchaser)</small>					
3. Location of installation	<u>Oconee 2, Seneca, South Carolina</u> <small>(name and address)</small>					
4. Type:	<u>Vertical</u> <small>(vert. or vert.)</small>	<u>Heat Exchanger</u> <small>(tank, jacketed, heat ex.)</small>	<u>006K103</u> <small>(Cert. Holder's serial no.)</small>	<u>006KE001 Rev. 4 & 006KE002 Rev. 1</u> <small>(CRN) (drawing no.)</small>	<u>207</u> <small>(N-1 Bd. No.)</small>	<u>2003</u> <small>(year built)</small>

List #4

Purpose (inlet, outlet, drain, etc.)	Qty.	(ID) Dia. or Size	Type	How Attached	Material	(min.) Thickness	Reinforcement Material	Location
Primary Nozzles Inlet	1	36"	I	Integral	SA-508 CL 3a	3"	N/A	Upper Chan. Head
Primary Nozzles II Outlet	2	28"	F	Welded	SA-508 CL 3a	3 1/2"	N/A	Lower Chan. Head
Primary Manway	2	16"	I	Integral	SA-508 CL 3a	6"	SA-508 CL 3a	Chan. Heads
Primary Manway Cover	2	28 1/2"	—	Bolted	SA-533 Typ. B CL 1	5 1/2"	N/A	Chan. Heads
Primary Handhole	1	6"	I	Integral	SA-508 CL 3a	3 1/2"	N/A	Upper Chan. Head
Primary Handhole Cover	1	12 1/4"	—	Bolted	SA-533 Typ. B CL 1	2 1/2"	N/A	Upper Chan. Head
Secondary Handholes	5	6"	I	Integral	SA-508 CL 3a	"	N/A	Shell
Handhole Covers	5	12 1/4"	—	Bolted	SA-533 Typ. B CL 1	2 1/2"	N/A	Shell
Inspection Ports	30	3"	I	Integral	SA-508 CL 3a	"	N/A	Shell
Inspection Port Covers	30	8 1/4"	—	Bolted	SA-533 Typ. B CL 1	1.48"	N/A	Shell
Feedwater Nozzles fed by external header	32	4"	—	Welded/ Bolted	SA-182 Gr. F22	0.602"	N/A	Shell
Auxiliary Feedwater Nozzles fed by external header	6	4"	—	Welded/ Bolted	SA-182 Gr. F22	0.602"	N/A	Shell
Secondary Manway	2	16"	I	Integral	SA-508 CL 3a	"	N/A	Shell
Secondary Manway Cover	2	25 1/4"	—	Bolted	SA-533 Typ. B CL 1	3"	N/A	Shell
Steam Nozzle	2	22.265"	F	Welded	SA-508 CL 3a	3 1/2"	SA-508 CL 3a	Shell
Instrument Nozzles	7	1 1/2"	F	Welded	SFA 5.5 E7018 A1	0.41"	N/A	Shell
Instrument Nozzles	12	1"	F	Welded	SFA 5.5 E7018 A1	0.45"	N/A	Shell
MFW Inspection Plugs	8	3/4"	F	Welded	SA-105	0.30"	SA-105	Shell
Downcomer Temp Sensor	3	1/2" NPT fitting	P	Welded	SA-479 Type 316L	0.565"	N/A	Shell

* n/a - no protruding shell penetration
 F = full penetration weld
 I = integrally forged
 P = partial penetration weld.

Attachment to FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS
As Required by the Provisions of the ASME Code, Section III, Division 1

Page 9 of 33

Pg. 6 of 6

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3
(name and address of Certificate Holder)

2. Manufactured for Duke Power Company, P.O. Box 1006, North Carolina, 28201-1006
(name and address of Purchaser)

3. Location of installation Oconee 2, Seneca, South Carolina
(name and address)

4. Type: Vertical Heat Exchanger 006K03 006KE001 Rev. 4 & 006KE002 Rev. 1 207 2003
(port. or vert.) (tank, jacketed, heat ex.) (Cert. Holder's serial no.) (CRN) (drawing no.) (Natl Ed. No.) (year built)

List #5

Description	Skirt (yes or no)	Lugs (qty.)	Legs (qty.)	Attached (where & how)
Lower Shroud Lugs	No	12	—	shell/welded
Upper Shroud Lug	Yes	—	—	shell/integral
Orifice Ring Lug	Yes	—	—	shell/integral
Lower Primary Head Base Support	Yes	—	—	channel head/integral

List #6

Name	State	Reg. No.
M. C. Keck	N.C.	18367
J. C. Herrin	N.C.	14504

JMA-01-190 15-1

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

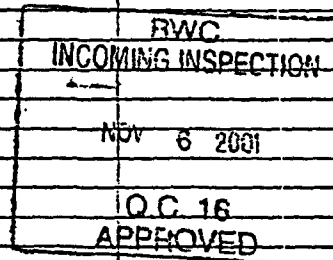
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chatsu-machi, Muroran, Hokkaido, 051-8505 Japan
(name and address of NPT Certificate Holder)
2. Manufactured for Babcock & Wilcox, 581 Coronation Blvd., Cambridge, Ontario, N1R 5V3, Canada
(name and address of purchaser)
3. Location of installation Oconee Nuclear Power Plant Unit 1, 2 & 3 Oconee, South Carolina
(name and address)
4. Type N148361W, Rev. 2 SA-508, Cl. 3a Mir 90ksi - 2001
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1989 No addenda 1 -
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(no.)
7. Remarks: * Hydrostatic test is not performed in The Japan Steel Works, Ltd.
Cladding thickness is min. 0.20" from base metal.
Cladding materials are SPA-5.4, AWS Cl. E309L-16 + E308L-16 and SFA-5.9 ER309L + ER308L.
8. Nom. thickness (in.) 6-3/8" Min. design thickness (in.) 6-1/4" Dia. ID (ft & in.) 9'-11.75" Length overall (ft & in.) 7'-0.87"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 1055 ✓	(1) 433
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	



10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

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

* P.O. No. : CM3313624 JSW Job No. : FN9-4305
Heat No. : 000496-1-1 JSW PC. No. : 3



E00040

JOA-01-190 15-2

FORM N-2 (Back - Pg 2 of 2)

Certificate Holder's Serial Nos. 1055 through

CERTIFICATION OF DESIGN

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

Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2725 Expires June 29, 2004

Date Aug. 30, 2001 Name The Japan Steel Works, Ltd.
Muroran Plant Signed [Signature]
(NPT Certificate Holder) (Authorized representative)
V. Talra

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of ILLINOIS and employed by H.S.B.I. & I. Co.
 of HARTFORD, CT.

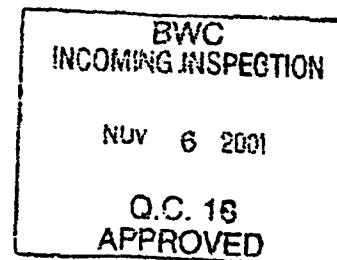
have inspected these items described in this Data Report on August 30, 2001, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date Aug. 30, 2001 Signed [Signature] Commissions NB10104, N, B, A
(Authorized Nuclear Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

Removed for further
 manufacturing 11/19/01
 To be sent to the customer
 with the History Dockets
 10/27/03

[Signature] ANZ.
 10/27/03



FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES*
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chatsu-nachi, Muroran, Hokkaido, 051-8505 Japan
(name and address of NPT Certificate Holder)
2. Manufactured for Babcock & Wilcox, 581 Coronation Blvd., Cambridge, Ontario, M1R 5V3, Canada
(name and address of purchaser)
3. Location of installation Oconee Nuclear Power Plant Unit 1, 2 & 3 Oconee, South Carolina
(name and address)
4. Type N148344W, Rev. 1 SA-508, Cl 3a Min. 90ksi - 2001
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1989 No addenda 1 -
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(no.)
7. Remarks: * Hydrostatic test is not performed in The Japan Steel Works, Ltd.
Cladding thickness is min. 0.20" from base metal.
Cladding materials are SFA-5.4, AWS Cl. E309L-16 + E308L-16 and SFA-5.9 ER309L + ER308L.
8. Nom. thickness (in.) 6-3/8" Min. design thickness (in.) 6-1/4" Dia. ID (ft & in.) 9'-11.75" Length overall (ft & in.) 5'-2.59"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) <u>1054</u>	<u>432</u>
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

BWC
INCOMING INSPECTION
SEP 25 2001
O.C. 16
APPROVED

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

7/98)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.
* P.O. No. : CM3313634 JSW Job No. : FN9-4304
Heat No. : OOD425-1-1 JSW PC. No. : 3



E00040

FORM N-2 (Back — Pg 2 of 2)

Certificate Holder's Serial Nos. 1054 through -

CERTIFICATION OF DESIGN

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

Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2725 Expires June 29, 2004

Date July 24, 2001 Name The Japan Steel Works, Ltd.
Murozan Plant Signed J. Taira
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of ILLINOIS and employed by H.S.B.I. & I. Co.
 of HARTFORD, CT. have inspected these items described in this Data Report on July 24, 2001, and state that to the

best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.

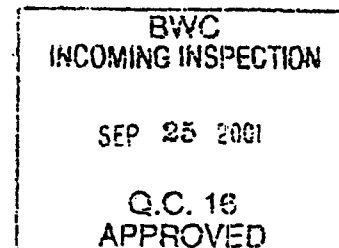
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
 in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage
 or loss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

Date July 24, 2001 Signed [Signature] Commissions NB10104, N, B, A
(Authorized Nuclear Inspector) (Net'l Bd. (incl. endorsements) and state or prov. and no.)

Removed for further
 manufacturing
 03/19/02

To be sent with
 History Packages to customer
 S. Bonhew 10/27/03

[Signature] ANI
 10/27/03



FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code, Section XI

1. Owner <u>Duke Power Company</u> <small>Name</small> <u>PO Box 1006, Charlotte, NC, 28201-1006</u> <small>Address</small>	Date <u>October 29, 2003</u> Sheet <u>1</u> of <u>1</u> Unit <u>006K03</u> <u>207</u> <small>Repair/Replacement Organization P.O. No., Job No., etc.</small>
2. Plant <u>Oconee 2</u> <small>Name</small> <u>Seneca, South Carolina</u> <small>Address</small>	3. Work Performed by <u>Babcock & Wilcox Canada</u> <small>Name</small> <u>581 Coronation Blvd., Cambridge, Ont N1R5V3</u> <small>Address</small>
4. Identification of System <u>207</u> ✓	
5. (a) Applicable Construction Code <u>ASME Sec III</u> , <u>1989</u> ✓ Year <u>No</u> ✓ Addenda , <u>--</u> Code Case (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>1998</u> - <u>2000</u> Addenda <small>Year</small> (c) Applicable Section XI Code Cases <u>--</u>	

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	B&W Canada	006K03 ✓	207 ✓	N/A	2003	See Below	Yes

7. Description of Work One prim. inlet nozzle, two prim. outlet nozzles weld clad and final machined. PWHT not performed. Two steam outlet nozzles final machined.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ 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 number of sheets is recorded at the top of this form.



FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N

Certificate of Authorization No. AN-2789

Expiration Date Jan. 23/04

Signed

[Signature] Manager, QA
Owner or Owner's Designated Title B&W Canada

Date

October 29, 2003

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 ONTARIO and employed by TECHNICAL STANDARDS AND SAFETY AUTHORITY of ONTARIO

have inspected the components described in this Owner's Report during the period JULY 17, 2003 to OCT-29, 2003, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

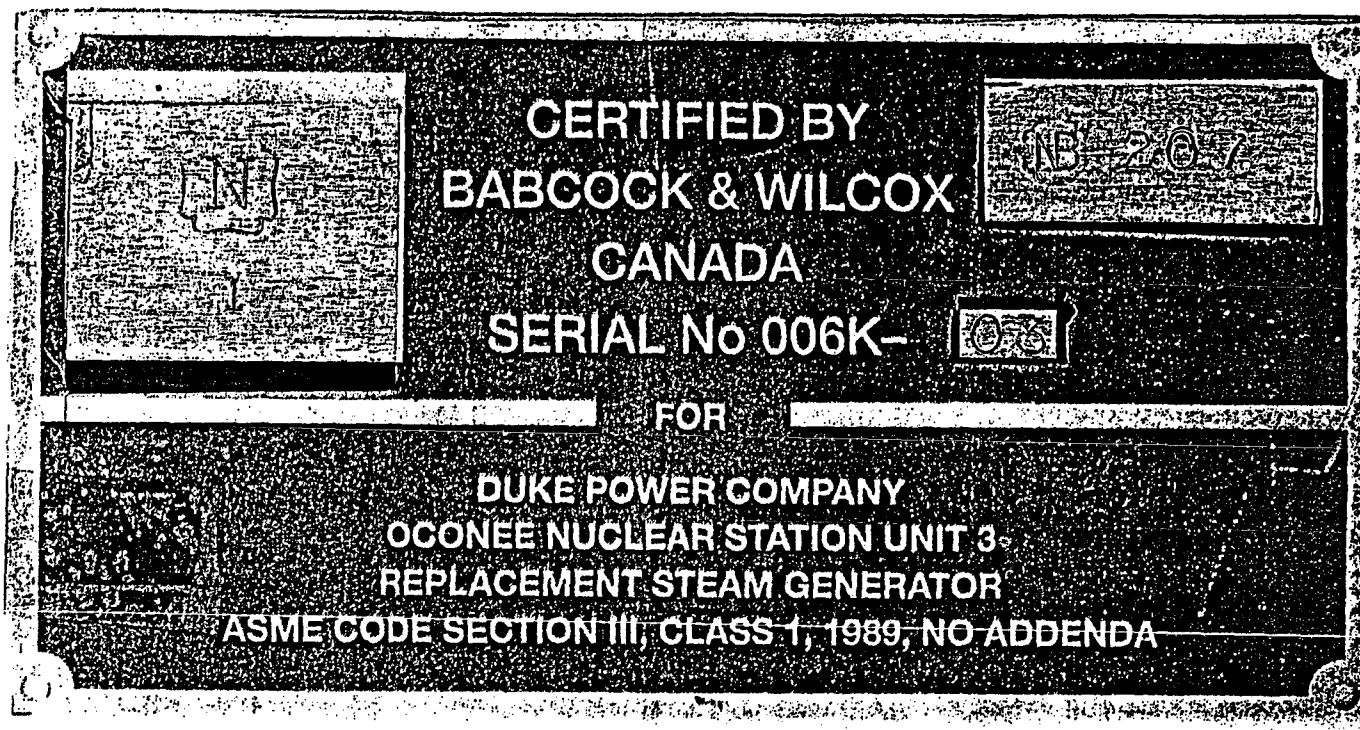
[Signature]
Inspector's Signature

Commissions 10333 ABIN NS, ONT 62.

National Board, State, Province, and Endorsements

Date

OCT-29, 03



006 KNG 3 999
W/O # 836762
ITEM # 5208596
HYDROTEST AY STEAM GENERATOR
DWG 006 KE 330

OCT 28/2003



10/28/03

For KNG
OCT 28/03

Page 16 of 33

Page 17 of 33

**Problem Investigation Process
Oconee Nuclear Station**

PIP Serial No:	Action Category:	IER No:	Other Report:
O-04-03906			

Problem Identification

Discovered Time/Date: 12:24 06/07/2004 **Occurred Time/Date:**

Unit(s) Affected:

<u>Unit</u>	<u>Mode</u>	<u>%Power</u>	<u>Unit Status</u>	<u>Remarks</u>
2	3	0		2EOC20 SGR Replacement Outage

System(s) Affected:

RC Reactor Coolant

Affected Equipment

(No Equipment Affected)

Location of Problem:

Bldg: R Column Line: Elev:

Location Remarks:

OTSG 2A Nameplate

Method Used to Discover Problem:

Nameplate Unit No. discrepancy discovered during preparation of the NIS-2 form for the 2A Replacement Once-Through-Steam-Generator (ROTSG).

Brief Problem Description:

Incorrect Oconee Nuclear Station Unit Number designation provided on the ASME code nameplate for the 2A OTSG (Nameplate has been incorrectly labeled "Unit 3").

Detail Problem Description:

The Oconee Nuclear Station Unit number designation provided on the ASME code nameplate by Babcock & Wilcox Canada (BWC) for the 2A Replacement-Once-Through-Steam-Generator (ROTSG) is incorrect. Unit "3" was incorrectly printed on the plate in lieu of Unit "2".

BWC has confirmed with its ANI that the Unit number designation is supplemental information only and is not required by the ASME code. The ASME required code stamped data (N1, NB 207 and Serial Number 006K-03) is correct and is in agreement with the Form N-1 Certificate Holders' Data Report. The location of installation is also identified correctly on the Form N-1 Data Report as Oconee 2, Seneca, SC. SGRH's discussion with Oconee's Resident ANII also confirmed the acceptability of BWC's assessment.

Given that the Unit number designation is not required by the ASME code, both BWC and Oconee's ANII concurred with SGRH's proposal to use a vibrating etching tool to engrave the correct Unit number designation on the ROTSG 2A nameplate. This corrective action was completed satisfactorily on 6/08/04. Both BWC and Oconee's ANII were informed following completion of the corrective action. A digital photo of the corrected nameplate was also taken and forwarded to BWC and to the Oconee ANII.

ROTSG 2B has been correctly identified with Unit 2 on its ASME code nameplate. BWC has confirmed that the ASME code stamped nameplates for the Unit 3 Replacement OTSGs 3A and 3B have been correctly printed with Unit 3.

Note: This PIP has been issued for documentation purposes and is recommended for Category IV screening. No additional corrective actions are required.

Originated By: MAH7380: HUTCHESON, MARK A Team: BKM7360 Group: SGR Date: 06/08/2004

Units/Components/Systems/Areas Affected(Y,N,U): N

Industry Plants Affected(Y,N,U): U

Immediate Corrective Actions:

**Problem Investigation Process
Oconee Nuclear Station**

Given that the Unit number designation is not required by the ASME code, both BWC and Oconee's ANII concurred with SGRH's proposal to use a vibrating etching tool to engrave the correct Unit number designation on the ROTSG 2A nameplate. This corrective action was completed satisfactorily on 6/08/04. Both BWC and Oconee's ANII were informed following completion of the corrective action. A digital photo of the corrected nameplate was also taken and forwarded to BWC and to the Oconee's ANII.

No additional corrective actions are considered necessary.

Originated By: MAH7380: HUTCHESON, MARK A Team: BKM7360 Group: SGR Date: 06/08/2004

Immediate Corrective Action Documents / Work Orders:

	<u>Indiv</u>	<u>Team</u>	<u>Group</u>	<u>Date</u>
Problem Identified By:	MAH7380	BKM7360	SGR	06/08/2004
Problem Entered By:	MAH7380	BKM7360	SGR	06/08/2004

End of the Document for PIP No: O-4-3906
The status of this PIP is: UnScreened
The duration of this PIP was: 1 day

N

1

CERTIFIED BY

MARCOCK & WILCOX

CANADA

SERIAL No 006103

NB 207

FOR

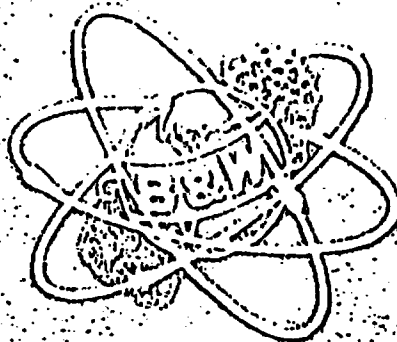
DUKE POWER COMPANY
DUNCE NUCLEAR STATION UNIT 2
REPLACEMENT STEAM GENERATOR
SECTION III, CLASS 1, 1985

JUN 8 2004

Page 4 of 33



CLASS A



NATL.
BOARD

N-108

THE
BABCOCK & WILCOX
COMPANY

DUKE POWER

GENERATOR

MANUFACTURER SERIAL NO. 620-0004-55 UNIT NO. 2

PRIMARY SIDE

SEC. SIDE

DESIGN PRESSURE 2500 PSI 1050 PSI

DESIGN TEMPERATURE 650° F 600° F

HYDROSTATIC TEST PRESSURE 3125 PSI 1315 PSI

MIN. PRESSURIZATION TEMP. 100° F 100° F

DATE BUILT 1971

FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 6

1. Manufactured and certified by Babcock & Wilcox Canada, 551 Coronation Boulevard, Cambridge, Ontario N1R 5V3
(name and address of N Certificate Holder)

2. Manufactured for Duke Power Company, P.O. Box 1005, Charlotte, North Carolina, 28201-1005
(name and address of Purchaser)

3. Location of installation Oconee 2, Seneca, South Carolina

4. Type: Vert. Heat Ex. 006K04 006KE001 Rev. 4 & E002 Rev. 1 209 2003
(horiz. or vert.) (tank, jacketed, heat ex.) (Cert. Holder's serial no.) (CRN) (drawing no.) (Mat'l Id. No.) (year built)

5. ASME Code, Section III, Division 1: 1989 Nona 1 List #1 Alt.
(edition) (provisional date) (class) (Code Case no.)

Items 6 - 10 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

6. Shell SA-508 Cl. 3a 80 ksi List #2 Alt. List #2 Alt. List #2 Alt. List #2 Alt.
(mat'l spec. no.) (tensile strength) (nom. thickness (in.)) (min. design thickness (in.)) (s.e. ID (ft. & in.)) (length (overall) (ft. & in.))

7. Seams: List #3 Alt. List #3 Alt. List #3 Alt. List #3 Alt. List #3 Alt. List #3 Alt. List #3 Alt. 4
(long) (RT) (RT) (eff. %) (grit) (grit) (RT) (no. of courses)

8. Heads: --- --- --- ---
(a) mat'l spec. no. (tensile strength) (b) mat'l spec. no. (tensile strength)

	Location (top bottom, ends)	Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Radius	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	---	---	---	---	---	---	---	---	---	---
(b)	---	---	---	---	---	---	---	---	---	---

If removable bolts used: --- Other fastening ---
(mat'l spec. no., size, quantity) (describe or attach sketch)

9. Jacket Closure: ---
(Describe as open & weld, bar, etc. if bar, give dimensions, describe, or sketch)

10. Design pressure² 1150 At max. temp. 600 Min. pressure test temp 70 Pneu., hydr., or combined test 1500
(psi) (°F) (°F) (°F) (psi)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SA-508 Cl. 3a 137% 22-3/16 welded
(stationary, mat'l spec. no.) (dia. in. (subject to pressure)) (thickness (in.)) (attachment (welded, bolted))
--- --- --- ---
(floating, mat'l spec.) (dia. (in.)) (thickness (in.)) (attachment)

12. Tubes SB-163 UNS N06690 1/2 0.038 15631 straight
(mat'l spec. no.) (OD (in.)) (Thickness (inches or gauge)) (no.) (type (straight or U))

Items 13 to 16 inclusive to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

13. Shell: --- --- --- --- --- ---
(mat'l spec. no.) (tensile strength) (nom. thickness (in.)) (min. design thickness (in.)) (dia. (ft. & in.)) (length (overall) (ft. & in.))

14. Seams --- --- --- Single Yes Full 1
(long (welded, etc., shape)) (RT (yes or no)) (RT) (eff. %) (grit) (RT) (RT) (no. of courses)

15. Heads --- --- SA-508 Cl. 3a 90 ksi --- ---
(a) mat'l spec. (tensile strength) (b) mat'l spec. no. (tensile strength) (c) mat'l spec. no. (tensile strength)

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a) Top, bottom, ends	---	---	---	---	---	---	---	---
(b) Channel - top	6 3/4"	---	---	1:1	---	59-17/32"	---	concave
Channel - bottom	6 3/4"	---	---	1:1	---	59-17/32"	---	concave
(c) Floating	---	---	---	---	---	---	---	---

If removable, bolts used --- Other fastening ---
(mat'l spec. no., size, quantity) (describe or attach sketch)

Design Pressure² 2500 at 650 Min. pressure-test temp. 70 Pneu., hydr., or comb. Test pressure 3125
(psi) (°F) (°F) (psi)

* If post weld heat treated. ² List other internal or external pressure with coincident temperature when applicable.
* Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 8 1/2 X 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded on the top of this form.

REVIEWED
14 2003

Certificate Holder's Serial No. 006K04

17. Nozzles, inspection and safety valve openings.

Purpose (inlet, outlet, drain, etc.)	Quantity	Dia. or size	Type	How attached	Mat'l.	Thickness	Reinforcement Material	Location
See List #4								

18. Supports: Skirt See List #5 Lugs See List #5 Legs See List #5 Other See List #5 Attached See List #5
 (yes or no) (quantity) (quantity) (quantity) (describe) (where and how)

19. Remarks: Previous N-2 Forms for the Primary Heads (Manufactured by Japan Steel Works, Muroran Plant, National Board Numbers 435 and 436) attached.

CERTIFICATION OF DESIGN

Design specification certified by See List #6 P.E. State See List #6 Reg. No. See List #6
 Province
 Design report* certified by J. T. Boyd P.E. State Ont. Reg. No. 04801502

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2789 Expires January 23, 2004
 Date November 7, 2003 Name Babcock & Wilcox Canada Signed S. JOSHE
 (N Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario and employed by Technical Standards and Safety Authority of Ontario have inspected the component described in this Data Report on Aug. 26/03, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component in accordance with the ASME Code, Section III, Division 1.

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

Date Nov. 7, 2003 Signed [Signature] Commissions NB# 8112-B-N
 (Authorized Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this nuclear vessel conforms to the rules of construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. Expires
 Date Name Signed
 (N Certificate Holder) (authorized representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of and employed by of have compared the statements in this Data Report with the described component and state that parts referred to as data items , not included in the certificate of shop inspection, have been inspected by me on and that to the best of my knowledge and belief the Certificate Holder has constructed and assembled this component in accordance with the ASME Code, Section III, Division 1.

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

Date Signed Commissions
 (Authorized Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

Attachment to FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 3 of 6

1. Manufactured and certified by	Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3 <small>(name and address of N Certificate Holder)</small>					
2. Manufactured for	Duke Power Company, P.O. Box 1006, North Carolina, 28201-1006 <small>(name and address of Purchaser)</small>					
3. Location of installation	Oconee 2, Seneca, South Carolina <small>(name and address)</small>					
4. Type:	Vertical <small>(horiz. or vert.)</small>	Heat Exchanger <small>(bank, jacketed, heat ex.)</small>	006K04 <small>(Cert. Holder's serial no.)</small>	006KE001 Rev. 4 & 006KE002 Rev. 1 <small>(drawing no.)</small>	208 <small>(Part 5d. No.)</small>	2003 <small>(year built)</small>

List #1

N-20-4
N-474-2
2142-1
2143-1

List #2

	Nominal Thickness	Min. Design Thickness	Inner Diameter	Length (per section thickness)	Length Overall
Shell can below upper T/S (thick shell, adjacent to T/S, taper to thin shell)	5 1/4" 3 1/4"	5" 3"	137 1/4" 137 1/4"	52 3/4" 79 1/16"	131 13/16"
Thin Shell to Thick to Thin	3 1/4" 5 1/4" 3 1/4"	3" 5" 3"	137 1/4" 137 1/4" 137 1/4"	19 1/4" 112 3/4" 27 1/2"	159 9/16"
Thin Shell	3 1/4"	3"	137 1/4"	---	173 3/4"
Shell Can Above Lower T/S (thin shell taper to thick shell, adjacent to T/S)	3 1/4" 5 1/4"	3" 5"	137 1/4" 137 1/4"	106 7/16" 52 1/2"	159 3/16"

Attachment to FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 4 of 6

1. Manufactured and certified by	<u>Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3</u> <small>(name and address of N Certificate Holder)</small>					
2. Manufactured for	<u>Duke Power Company, P.O. Box 1006, North Carolina, 28201-1006</u> <small>(name and address of Purchaser)</small>					
3. Location of installation	<u>Oconee 2, Seneca, South Carolina</u> <small>(name and address)</small>					
4. Type:	<u>Vertical</u> <small>(horiz. or vert.)</small>	<u>Heat Exchanger</u> <small>(tank, jacketed, heat ex.)</small>	<u>006K04</u> <small>(Cert. Holder's serial no.)</small>	<u>006KE001 Rev. 4 & 006KE002 Rev. 1</u> <small>(drawing no.)</small>	<u>208</u> <small>(Part Id. No.)</small>	<u>2003</u> <small>(year built)</small>

List #3

Seam	Longitudinal Joint Type	HT	RT	eff (%)	Girth Joint Type	HT	RT
Tubesheet (Forging)	N/A	N/A	N/A	N/A	Double	Yes	Full
Shell Can #1	None	Yes	Full	100	Double	Yes	Full
Shell Can #2	None	Yes	Full	100	Double	Yes	Full
Shell Can #3	None	Yes	Full	100	Double	Yes	Full
Shell Can #4	None	Yes	Full	100	Double	Yes	Full
Tubesheet (Forging)	N/A	N/A	N/A	N/A	Double	Yes	Full

Attachment to FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 5 of 6

1. Manufactured and certified by	<u>Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3</u>						
	<small>(name and address of N Certificate Holder)</small>						
2. Manufactured for	<u>Duke Power Company, P.O. Box 1006, North Carolina, 28201-1006</u>						
	<small>(name and address of Purchaser)</small>						
3. Location of installation	<u>Oconee 2, Seneca, South Carolina</u>						
	<small>(name and address)</small>						
4. Type:	<u>Vertical</u>	<u>Heat Exchanger</u>	<u>006K04</u>	<u>---</u>	<u>006KE001 Rev. 4 & 006KE002 Rev. 1</u>	<u>208</u>	<u>2003</u>
	<small>(horiz. or vert.)</small>	<small>(tank, jacketed, heat ex.)</small>	<small>(Cert. Holder's serial no.)</small>	<small>(CR#)</small>	<small>(drawing no.)</small>	<small>(NACB No.)</small>	<small>(year built)</small>

List #4

Purpose (inlet, outlet, drain, etc.)	Qty.	(ID) Dia. or Size	Type	How Attached	Material	(min.) Thickness	Reinforcement Material	Location
Primary Nozzles inlet	1	36"	I	Integral	SA-508 CL 3a	3"	N/A	Upper Chan. Head
Primary Nozzles Outlet	2	28"	F	Welded	SA-508 CL 3a	3 1/4"	N/A	Lower Chan. Head
Primary Manway	2	16"	I	Integral	SA-508 CL 3a	8"	SA-508 CL 3a	Chan. Heads
Primary Manway Cover	2	28 1/2"	---	Bolted	SA-533 Typ. B CL 1	5 1/4"	N/A	Chan. Heads
Primary Handhole	1	6"	I	Integral	SA-508 CL 3a	3 1/4"	N/A	Upper Chan. Head
Primary Handhole Cover	1	12 3/4"	---	Bolted	SA-533 Typ. B CL 1	2 1/2"	N/A	Upper Chan. Head
Secondary Handholes	5	6"	I	Integral	SA-508 CL 3a	"	N/A	Shell
Handhole Covers	5	12 3/4"	---	Bolted	SA-533 Typ. B CL 1	2 1/2"	N/A	Shell
Inspection Ports	30	3"	I	Integral	SA-508 CL 3a	"	N/A	Shell
Inspection Port Covers	30	8 1/4"	---	Bolted	SA-533 Typ. B CL 1	1.48"	N/A	Shell
Feedwater Nozzles fed by external header	32	4"	---	Welded/ Bolted	SA-182 Gr. F22	0.602"	N/A	Shell
Auxiliary Feedwater Nozzles fed by external header	6	4"	---	Welded/ Bolted	SA-182 Gr. F22	0.602"	N/A	Shell
Secondary Manway	2	16"	I	Integral	SA-508 CL 3a	"	N/A	Shell
Secondary Manway Cover	2	25 3/4"	---	Bolted	SA-533 Typ. B CL 1	3"	N/A	Shell
Steam Nozzle	2	22.265"	F	Welded	SA-508 CL 3a	3 1/4"	SA-508 CL 3a	Shell
Instrument Nozzles	7	1 1/2"	F	Welded	SFA 5.5 E7018 A1	0.41"	N/A	Shell
Instrument Nozzles	12	1"	F	Welded	SFA 5.5 E7018 A1	0.45"	N/A	Shell
MPW Inspection Plugs	8	3/4"	F	Welded	SA-105	0.30"	SA-105	Shell
Downcomer Temp Sensor	3	1/2" NPT fitting	P	Welded	SA-479 Type 316L	0.565"	N/A	Shell

* n/a - no protruding shell penetration
 F = full penetration weld
 I = integrally forged
 P = partial penetration weld.

Attachment to FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 6 of 6

1. Manufactured and certified by	<u>Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3</u>					
	<small>(name and address of N Certificate Holder)</small>					
2. Manufactured for	<u>Duke Power Company, P.O. Box 1006, North Carolina, 28201-1006</u>					
	<small>(name and address of Purchaser)</small>					
3. Location of installation	<u>Oconee 2, Seneca, South Carolina</u>					
	<small>(name and address)</small>					
4. Type:	<u>Vertical</u>	<u>Heat Exchanger</u>	<u>006K04</u>	<u>006KE001 Rev. 4 & 006KE002 Rev. 1</u>	<u>208</u>	<u>2003</u>
	<small>(horiz. or vert.)</small>	<small>(tank, jacketed, heat ex.)</small>	<small>(Cert. Holder's serial no.)</small>	<small>(CRN)</small>	<small>(Plant Sct. No.)</small>	<small>(year built)</small>

List #5

Description	Skirt (yes or no)	Lugs (qty.)	Legs (qty.)	Attached (where & how)
Lower Shroud Lugs	No	12	—	shell/welded
Upper Shroud Lug	Yes	—	—	shell/integral
Orifice Ring Lug	Yes	—	—	shell/integral
Lower Primary Head Base Support	Yes	—	—	channel head/integral

List #6

Name	State	Reg. No.
M. C. Keck	N.C.	18367
J. C. Herrin	N.C.	14504

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chatsu-machi, Muroran, Hokkaido, 051-8505 Japa
(name and address of NPT Certificate Holder)
2. Manufactured for Babcock & Wilcox, 581 Coronation Blvd., Cambridge, Ontario, N1R 5V3, Canada
(name and address of purchaser)
3. Location of installation Oconee Nuclear Power Plant Unit 1, 2 & 3 Oconee, South Carolina
(name and address)
4. Type N148361W, Rev. 2 SA-508, Cl. 3a Min. 90ksi - 2001
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1989 No addenda 1 -
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(no.)
7. Remarks: * Hydrostatic test is not performed in The Japan Steel Works, Ltd.
Cladding thickness in min. 0.20" from base metal.
Cladding materials are SFA-5.4, AWS Cl. E309L-16 + E308L-16 and SFA-5.9 ER309L + ER308L.
8. Nom. thickness (in.) 5-3/8" Min. design thickness (in.) 5-1/4" Dia. ID (ft & in.) 9'-11.75" Length overall (ft & in.) 7'-0.87"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) <u>1057</u>	<u>436</u>
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

R.W.D.
INCOMING INSPECTION
JAN 11 2002
O.C. 16
APPROVED

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

(7/98) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

* P.O. No. : CM3313634 JSW Job No. : FN9-4305
Heat No. : 00D497-1-1 JSW PC. No. : 4



E00040

FORM N-2 (Back - Pg 2 of 2)

Certificate Holder's Serial Nos. 1057 through -

CERTIFICATION OF DESIGN

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2725 Expires June 29, 2004
Date Nov. 2, 2001 Name The Japan Steel Works, Ltd.
Muroran Plant Signed J. Taira
(Authorized representative)

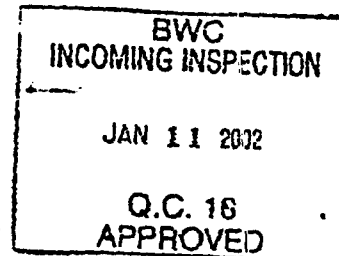
CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ILLINOIS and employed by H.S.B.I. & Co. of HARTFORD, CT. have inspected these items described in this Data Report on Nov 2nd, 2001, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date Nov 2nd, 2001 Signed [Signature] Commissions NE10104, N, B, A
(Authorized Nuclear Inspector) (Nat'l Bd. Incl. endorsements) and state or prov. and no.)

Removed for further
manufacturing 01/22/02
To be sent to the customer
with the data package
11/04/03 L. Conbus
ANI [Signature] 11/04/03



**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4-Chatsu-nachi, Muroran, Hokkaido, 051-8505 Jap.
(name and address of NPT Certificate holder)
2. Manufactured for Babcock & Wilcox, 561 Coronation Blvd., Cambridge, Ontario, N1R 5V3, Canada
(name and address of purchaser)
3. Location of installation Oconee Nuclear Power Plant Unit 1, 2 & 3 Oconee, South Carolina
(name and address)
4. Type SA-509, Cl. 3a Min. 90ksi - 2001
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1989 No addenda 1 -
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(no.)
7. Remarks: * Hydrostatic test is not performed in The Japan Steel Works, Ltd.
Cladding thickness is min. 0.20" from base metal.
Cladding materials are SFA-5.4, AWS Cl. E309L-16 + E308L-16 and SFA-5.9 ER309L + ER308L.
8. Nom. thickness (in.) 6-3/8" Min. design thickness (in.) 6-1/4" Dia. ID (ft & in.) 9'-11.75" Length overall (ft & in.) 5'-2.59"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 1056	435
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

EWD
INCOMING INSPECTION
NOV 15 1989
U.C. 15
APPROVED

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

(7/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

* P.O. No. : CM3313634 JSW Job No. : FN9-4304
Heat No. : OOD426-1-1 JSW PC. No. : 4



E00040

FORM N-2 (Back - Pg 2 of 2)

Certificate Holder's Serial Nos. 1056 through

CERTIFICATION OF DESIGN

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2725 Expires June 29, 2004
 Date Sept. 21, 2001 Name The Japan Steel Works, Ltd. Signed [Signature]
Muroran Plant
(NPT Certificate Holder) Authorized representative:
J. Taira

CERTIFICATE OF INSPECTION

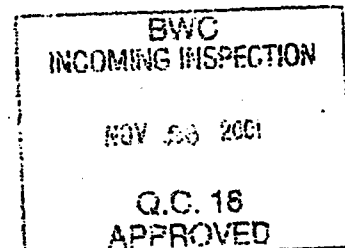
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ILLINOIS and employed by H.S.B.I. & I. Co. of HARTFORD, CT. have inspected these items described in this Data Report on Sept. 21, 2001, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date Sept. 21, 2001 Signed [Signature] Commissions NB10104, N, B, A
(Authorized Nuclear Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

Removed for further
 manufacturing 04/29/02
 [Signature]

To be sent to the
 customer with the data
 package. 11/04/03

[Signature]
 [Signature]



FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code, Section XI

1. Owner Duke Power Company Date November 7, 2003
Name
PO Box 1006, Charlotte, NC, 28201-1006 Sheet 1 of 1
Address

2. Plant Oconee 2 Unit 006K04
Name
Seneca, South Carolina 208
Address Repair/Replacement Organization P.C. No., Job No., etc.

3. Work Performed by Babcock & Wilcox Canada Type Code Symbol Stamp N
Name Authorization No. N-2789
581 Coronation Blvd., Cambridge, Ont. N1R5V3 Expiration Date Jan 23/04
Address 208

4. Identification of System _____

5. (a) Applicable Construction Code ASME Sec III, 1989 Edition, No Addenda, -- Code Case
Year
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1998 - 2000 Addenda
Year
 (c) Applicable Section XI Code Cases ---

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Heat Exchanger	B&W Canada	006K04	208	N/A	2003	See Below	Yes

7. Description of Work One prim. inlet nozzle, two prim. outlet nozzles weld clad and final machine PWHT not performed. Two steam outlet nozzles final machined.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ 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 number of sheets is recorded at the top of this form.



FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N

Certificate of Authorization No. N-2789

Expiration Date Jan. 23/04

Signed

Manager QA, BAW Canada
Owner or Owner's Designee, Title

Date November 07, 2003

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 ONTARIO and employed by TECHNICAL STANDARDS AND SAFETY AUTHORITY of ONTARIO

have inspected the components described in this Owner's Report during the period AUG. 27, 2003 to NOV. 07, 2003, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions NB 10333 AB IN NS, ONT. 62
National Board, State, Province, and Endorsements

Date NOV. 07, 2003

W.O. 7097 11-07-03
opr 07-40



6/7/03

DAE
7/16/03

SGRH Hngr-Welds Status

FileWindowHelpType a question for help

Edit / View Weld Status Records By Work Package

Sign In / Edit / View Weld Record Data

Work Package2570A2570A REMOVE OSG 2A

Go To Work Package

Go To Weld Record

ANII WP Approval

Continue To Display

Weld CardFW NumberWeld CategoryCountWeld StatusReport Date

ASME ClassISI ClassDuke Pipe ClassANII Weld Card Approval

WHC-01OSG-2A-17Other1Weld(s) Completed

4/18/2004 8:33:30 AM

MTPTRTUTVT

Record: 14 of 3

Comments

Record: 57 of 127

start

Welcome - Lotu...SGT Welding DBSGRH Hngr-Wel...Document2 - Mi...1:04 PM

SGRH Hngr-Welds Status

File Window Help

Edit / View Weld Status Records By Work Package

SGRH Edit/View Weld Record Data

Work Package: 3040A 3040A INSTALL RSG 2A

Go To Work Package

ANII WF Approval ☐ Continue to Display

Go To Weld Record

Weld Card	FW Number	Weld Category	Count	Weld Status	Report Date	ASME Class	ISI Class	Duke Pipe Class	ANII Weld Card Apprvl
-----------	-----------	---------------	-------	-------------	-------------	------------	-----------	-----------------	-----------------------

Record: 14 67 of 127

SGRH Hngr-Welds Status

File Window HelpType a question for help

Edit / View Weld Status Records By Work Package

SGRH Edit / View Weld Record Data

Work Package3040A3040A INSTALL R5G 2AGo To Work Package

ANII WE Approval☐Continue DisplayGo To Weld Record

Weld CardFW NumberWeld CategoryCountWeld Status

Report Date

ASME ClassISI ClassDuke Pipe ClassANII Weld Card Apprvl

Record: 11<<>>11>*

Record: 11<<>>67>11>* of 127

start

Welcome - Lotu...SGT Welding DBSGRH Hngr-Wel...Document2 - Mi...1:05 PM

SGRH Hngr-Welds Status

File Window Help

Edit / View Weld Status Records By Work Package

Type a question for help

SGRH Edit / View Weld Record Data

Work Package: 3040B

3040B INSTALL RSG 2B

Go To Work Package

Go To Weld Record

Weld Card

FW Number

Weld Category

Count

Weld Status

Report Date

ASME Class

ISI Class

Duke Pipe Class

ANII Weld Card Apprvl

Record: 14

Record: 68 of 127

start

Welcome - Lotu...

SGT Welding DB

SGRH Hngr-Wel...

Document2 - Mi...

1:06 PM

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/21/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98539671

Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AS1 WP23050A

4. Identification of System Reactor Coolant Class 1

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-50-RCPM-H6604	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-50-RCPM-H6605	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Sheet 2 of 2

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

7. Description of Work Remove/replace supports for removal of Interferences for SG 2A removal.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Hangers were removed for the removal of the 2A SG and replaced after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI:

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

[Signature]

Date 09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-7-04 to 5-28-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions

NC 853, N, I

National Board, State, Providence and Endorsements

Date

9-29-04

Edit / View Weld Status Records By Work Package

SGRH Edit / View Weld Record Data

Work Package: 3050A

3050A INSTALL SG 2A UPPER LATERAL SUPPORTS

Go To Work Package

ANII Weld Approval

Continue to Display

Go To Weld Record

Weld Card

FW Number

Weld Category

Count

Weld Status

Report Date

ASME Class

ISI Class

Duke Pipe Class

ANII Weld Card Approval

WDC-01

FW-005

Other

1

Weld(s) Completed

4/25/2004 12:59:47 PM

NDE

Comments

Record: 14 of 8

Record: 70 of 127

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98539673
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AS1 WP23050B

4. Identification of System Reactor Coolant Class 1

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-50-RCPM-H6606	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-50-RCPM-H6607	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Sheet 2 of 2

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

7. Description of Work Remove/replace supports for removal of interferences for SG 2B removal.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Hangers were removed for the removal of the 2B SG and replaced after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Will Pat

SGRM SENIOR
ENGINEER

Date

09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-7-04 to 5-28-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

G. Klein

Inspector's Signature

Commissions

NC 853, N I

National Board, State, Providence and Endorsements

Date

9-29-04

SGRH Hngr-Welds Status

File Window Help

Type a question for help

Edit / View Weld Status Records By Work Package

SGRH Hngr-Welds Status

Work Package: 30508

30508 INSTALL SG 2B UPPER LATERAL SUPPORTS

Go To Work Package

ANII Weld Card

CONTINUOUS

Go To Weld Record

Weld Card

FW Number

Weld Category

Count

Weld Status

Report Date

ASME Class

ISI Class

Duke Pipe Class

ANII Weld Card Apprvl

WDC-01

FW-105

Other

1

Weld(s) Completed

5/1/2004 10:00:27 AM

NDE

MT
PT
RT
UT
VT

Record:

Comments

Record: 14 of 9

Record: 71 of 127

start

Welcome - Lotu...

SGT Welding DB

SGRH Hngr-Wel...

Document2 - Mi...

1:19 PM

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 2

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

3a. Work Order # 98532391
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM4 WP 23065A

4. Identification of System Reactor Coolant Class 1

5. (a) Applicable Construction Code ASME III NB 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Page 2 of 2

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Re-Install reactor coolant piping for SG 2A.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Existing reactor coolant piping had to be removed to allow removal of old SG and installation of the new 2A steam generator. This NIS-2 covers the welding for re-installing this piping. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A SGRH SENIOR ENGINEER Expiration Date N/A

Signed Will Smith Date 9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-13-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

PO Klein
Inspector's Signature

Commissions NC 853, N, I
National Board, State, Providence and Endorsements

Date 9-29-04

Page 2 of 2

SGRH Hngr-Welds Status

File Window Help

Type a question for help

Edit / View Weld Status Records By Work Package

SGRH Edit / View Weld Record Data

Work Package: 3065A 3065A RCS MACHINING / WELDING SG 2A [Go To Work Package](#)

ANII WP Approval: ☐ Continue To Display: ☒ [Go To Weld Record](#)

Weld Card	FW Number	Weld Category	Count	Weld Status	Report Date
ASME Class	ISI Class	Duke Pipe Class	ANII Weld Card Apprvl		
WRDC-01	BM-R-1	LB Weld	1	Weld(s) Completed	4/26/2004 8:06:56 AM
				<input checked="" type="checkbox"/>	

Comments:

NDE

- MT
- PT
- RT
- UT
- VT

Record: 1 4

Record: 1 5 of 9

Record: 1 76 of 127

start Welcome - Lotu... SGT Welding DB SGRH Hngr-Wel... Document2 - Mi... 1:27 PM

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 4
(Taylor Forge Elbow 2A)

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

3a. Work Order # 98532391

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

Repair Organization Job # _____

3b. NSM or MM # ON-23086 AM4 WP 23065A

4. Identification of System Reactor Coolant System Class 1

5. (a) Applicable Construction Code ASME III 1989 Edition N/A Addenda, No Addenda /Code Cases N-474-2

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Taylor Forge Elbow 2A	Taylor Forge Engineered Systems, Inc.	806050-1D	_____	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes

Form NIS-2 (Back)

Sheet 2 of 4

(Taylor Forge Elbow 2A)

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

7. Description of Work Replaced Unit 2 "A" RCS Hot Leg 145 Degree Elbow

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remarks: Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed *W. H. H.* SGRH SENIOR
ENGINEER

Date 9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HS BCT

have inspected the components described in this Owner's Report during the period 2-13-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

W. H. H.
Inspector's Signature

Commissions

NC 853, N, I
National Board, State, Providence and Endorsements

Date 9-29-04

FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Fabricated and certified by TAYLOR FORGE ENGINEERED SYSTEMS, INC., 208 N. IRON STREET, PAOLA, KANSAS 66071
(name and address of NPT Certificate Holder)
2. Fabricated for SGT OCONEE P.O. 817 SENECA, S.C. 29679
(name and address)
3. Location of Installation DUKE POWER COMPANY SGT OCONEE NUCLEAR STATION 155 E PICKENS HIGHWAY SENECA, S.C. 29672
(name and address of Purchaser)
4. Type: 806050 - 1D --- 806050-1 D1 R/4 --- 2004
(Cert. Holder's serial no.) (CRN) (drawing no.) (Nat'l. Bd. no.) (year built)
5. ASME Code, Section III, Division 1: 1989 --- 1 N-474-2
(edition) (addenda date) (class) (Code Case no.)
6. Shop hydrostatic test 3200 Psi at 70 °F (if performed)
7. Description of piping RCS HOT LEG 145 DEGREE ELBOW

8. Certificate Holders' Data Reports properly identified and assigned by commissioned inspectors have been furnished for the following items of this report:

9. Remarks: OCONEE STEAM GENERATOR REPLACEMENT PROJECT

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1937 expires November 25, 2004.

Date 03/08/2004 Name Taylor Forge Engineered Systems, Inc. Signed [Signature]
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Kansas and employed by HSB CT

of Hartford, CT have inspected the piping subassembly described in this Data Report on 03/08/2004 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

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

Date 03/08/2004 Signed [Signature] Commissions NB12477AN KS557
(Authorized Nuclear Inspector) (Nat'l. Bd. (inc. endorsement state or prov. And no.)

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

Page 3 of 4
(Taylor Forge Elbow 2A)

FORM NPP-1 (Back -- Pg. 2 of 2)

Certificate Holder's Serial No. 806050 -1D

10. Description of field fabrication _____

11. Pneu., hydro., or comb. test pressure _____ psi at temp. _____ °F (if performed)

CERTIFICATE OF FIELD FABRICATION COMPLIANCE

We certify that the statements on this report are correct and that the field fabrication of the described piping subassembly conforms with the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. _____ Expires _____

Date _____ Name _____ Signed _____
(Certificate Holder) (authorized representative)

CERTIFICATE OF FIELD FABRICATION INSPECTION

I, _____ 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 _____ of _____, have compared the statements in this Data Report with the described piping subassembly and state that parts referred to as data items _____, not included in the Certificate of Shop Inspection, have been inspected by me on _____, and that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

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

Date _____ Signed _____ Commissions _____
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsement state or prov. and no.))

Page 4 of 4
 (Taylor Forge Elbow 2B)

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98532393
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM4 WP 23065B

4. Identification of System Reactor Coolant Class 1

5. (a) Applicable Construction Code ASME III NB 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Page 2 of 2

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Re-Install reactor coolant piping for SG 2B.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Existing reactor coolant piping had to be removed to allow removal of old SG and installation of the new 2B steam generator. This NIS-2 covers the welding for re-installing this piping. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned [Signature] SGRH SENIOR
ENGINEERDate 9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HISBCT have inspected the components described in this Owner's Report during the period 2-13-04 to 8-17-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions NC 853 N, I
National Board, State, Providence and Endorsements

Date 9-29-04

Page 2 of 2

SGRH Hngr Welds Status

File Window Help

Type a question for help

Edit / View Weld Status Records By Work Package

SGRH Edit / View Weld Record Data

Work Package: 30658 30658 RCS MACHINING / WELDING SG 2B

Go To Work Package

ANII WP Approval ☐ Continue To Display ☒ Go To Weld Record

Weld Card	FW Number	Weld Category	Count	Weld Status	Report Date
ASME Class	ISI Class	Duke Pipe Class	ANII Weld Card Apprvl		
HTR 01	2RC 279-95V		0		

Comments

ONS QA Review Required

NDE

VT

MT

Record: 1 of 8

Record: 77 of 127

start

Welcome - Lotu...

SGT Welding DB

SGRH Hngr-Wel...

Document2 - Mi...

1:29 PM

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 4
(Taylor Forge Elbow 2B)

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

3a. Work Order # 98532393

Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM4 WP 23065B

4. Identification of System Reactor Coolant System Class 1

5. (a) Applicable Construction Code ASME III 1989 Edition N/A Addenda, No Addenda /Code Cases N-474-2

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Taylor Forge Elbow 2B	Taylor Forge Engineered Systems, Inc.	806050-1F	—	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes

Form NIS-2 (Back)

Sheet 2 of 4
(Taylor Forge Elbow 2B)

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

7. Description of Work Replaced Unit 2 "B" RCS Hot Leg 145 Degree Elbow

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remarks: Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Will Pat SGRA SENIOR
ENGINEER

Date 09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT

have inspected the components described in this Owner's Report during the period 2-13-04 to 8-17-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

W. Klein
Inspector's Signature

Commissions NC 853, N, I
National Board, State, Providence and Endorsements

Date 9-29-04

**FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED
NUCLEAR PIPING SUBASSEMBLIES***

Page 376 of 401

s Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Fabricated and certified by TAYLOR FORGE ENGINEERED SYSTEMS, INC., 208 N. IRON STREET, PAOLA, KANSAS 66071
(name and address of NPT Certificate Holder)
2. Fabricated for SGT OCONEE P.O. 817 SENECA, S.C. 29679
(name and address)
3. Location of Installation DUKE POWER COMPANY SGT OCONEE NUCLEAR STATION 155 E PICKENS HIGHWAY SENECA, S.C. 29672
(name and address of Purchaser)
4. Type: 806050 - 1F --- 806050-1 D1 R/4 --- 2004
(Cert. Holder's serial no.) (CRN) (drawing no.) (Nat'l. Bd. no.) (year built)
5. ASME Code, Section III, Division 1: 1989 --- 1 N-474-2
(edition) (addenda date) (class) (Code Case no.)
6. Shop hydrostatic test 3200 Psi at 70 °F (if performed)
7. Description of piping RCS HOT LEG 145 DEGREE ELBOW
8. Certificate Holders' Data Reports properly identified and assigned by commissioned inspectors have been furnished for the following items of this report:

9. Remarks: OCONEE STEAM GENERATOR REPLACEMENT PROJECT

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1937 expires November 25, 2004.

Date 3/31/04 Name Taylor Forge Engineered Systems, Inc. Signed Bruce E. Wood
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Kansas and employed by HSB CT

of Hartford, CT, have inspected the piping subassembly described in this Data Report on 03/31/2004, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

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

Date 3/31/2004 Signed [Signature] Commissions NB12497AN KS557
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsement state or prov. And no.)

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

Page 3 of 4
(Taylor Forge ELBOW 2B)

FORM NPP-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 806050 -1F

0. Description of field fabrication _____

1. Pneu., hydro., or comb. test pressure _____ psi at temp. _____ °F (if performed)

CERTIFICATE OF FIELD FABRICATION COMPLIANCE

We certify that the statements on this report are correct and that the field fabrication of the described piping subassembly conforms with the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. _____ Expires _____

Date _____ Name _____ Signed _____
(Certificate Holder) (authorized representative)

CERTIFICATE OF FIELD FABRICATION INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____ of _____, have compared the statements in this Data Report with the described piping subassembly and state that parts referred to as data items _____, not included in the Certificate of Shop Inspection, have been inspected by me on _____, and that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

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

Date _____ Signed _____ Commissions _____
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsermer, state or prov. and no.))

Page 4 of 4
 (Taylor Forge Elbow 2B)

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98532391
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM4 WP 23067A

4. Identification of System Reactor Coolant Class 1

5. (a) Applicable Construction Code ASME III NB 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	Sep-74	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Re-Install reactor coolant piping for SG 2A.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Existing reactor coolant piping had to be removed to allow removal of old SG and installation of the new 2A steam generator. This NIS-2 covers the welding for re-installing this hot leg piping. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

Will Pat

Date

09/28/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBC

have inspected the components described in this Owner's Report during the period 2-13-04 to 8-17-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions

National Board, State, Providence and Endorsements

Date

9-29-04

NC FS3, N, I

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98532393

Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM4 WP 23067B

4. Identification of System Reactor Coolant Class 1

5. (a) Applicable Construction Code ASME III NB 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Page 2 of 2

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Re-Install reactor coolant piping for SG 2B.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Existing reactor coolant piping had to be removed to allow removal of old SG and installation of the new 2B steam generator. This NIS-2 covers the welding for re-installing this hot leg piping. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

Wick Spata

Date

9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-13-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

AK Klein
Inspector's Signature

Commissions

NC853, N, I

National Board, State, Providence and Endorsements

Date

9-29-04

Page 2 of 2

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98530942
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM3 WP 23075A

4. Identification of System Emergency Feedwater Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Page 2 of 2

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

7. Description of Work Install emergency feedwater piping for SG 2A.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Existing emergency feedwater piping had to be removed to allow installation of the 2A steam generator. This NIS-2 covers the welding for re-installing this piping.
Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRA SENIOR
ENGINEER

Expiration Date N/A

Signed Will Dot

Date 09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-11-04 to 8-17-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NC 853, N, I

National Board, State, Providence and Endorsements

Date 9-29-04

Page 2 of 2

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98530942
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM3 WP23075A

4. Identification of System Emergency Feedwater Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-03-1480A-H2B	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-03-1480A-H1B	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-03-1480A-H6106	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-03-1480A-H6107	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-03-1480A-H6109	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Sheet 2 of 2

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

7. Description of Work Remove/replace supports for removal of interferences for SG 2A removal.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Hangers were removed for the removal of the 2A SG and replaced after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A SGRH SENIOR ENGINEER Expiration Date N/A

Signed [Signature] Date 09/28/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-11-04 to 8-17-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions NC853, N, I
National Board, State, Providence and Endorsements

Date 9-29-04

FORM NIS-2 OWNER'S REPORT OF REPAIRS OR REPLACEMENTS
As Required By The Province of The ASME Code Section XI

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98530949
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM3 WP 23075B

4. Identification of System Emergency Feedwater Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Install emergency feedwater piping for SG 2B.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Existing emergency feedwater piping had to be removed to allow installation of the 2B steam generator. This NIS-2 covers the welding for re-installing this piping.
Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed Walt Hatt ENGINEER Date 9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-1-04 to 8-19-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Pat Klein Commissions NC 853, N, I
Inspector's Signature National Board, State, Providence and Endorsements:
Date 9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98530949
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM3 WP23075B

4. Identification of System Emergency Feedwater Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-03A-1480A-H3A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-03A-1480A-H6263	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-03A-1480A-H6111	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Remove/replace supports for removal of Interferences for SG 2B removal.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Hangers were removed for the removal of the 2B SG and replaced after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

W. H. Hatt

Date

09/28/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT

have inspected the components described in this Owner's Report during the period 2-1-04 to 8-19-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions

NC 853, N, I

National Board, State, Providence and Endorsements:

Date

9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 2

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

3a. Work Order # 98516356
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM1 WP 23080A

4. Identification of System Main Steam Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Page 2 of 2

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

7. Description of Work Install main steam piping for SG 2A.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Existing main steam piping had to be removed to allow installation of the 2A steam generator. This NIS-2 covers the welding for re-installing this piping. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Will J. Pelt

SGRH SENIOR
ENGINEER

Date 9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-7-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions NC 853, N, I

National Board, State, Providence and Endorsements

Date 9-29-04

Page 2 of 2

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 4

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98516356

Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM1 WP23080A

4. Identification of System Main Steam Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-01A-0-1481A-H1B	Duke Power Company	N/A	N/A	N/A	1973	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-01A-0-1481A-H7B	Duke Power Company	N/A	N/A	N/A	1973	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-01A-0-1481A-H3B	Duke Power Company	N/A	N/A	N/A	1973	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-01A-0-1480A-H9B	Duke Power Company	N/A	N/A	N/A	1973	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-01A-0-1481B-H2B	Duke Power Company	N/A	N/A	N/A	1973	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-01A-0-1481B-H8B	Duke Power Company	N/A	N/A	N/A	1973	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is Sheet 2 of 4 this form.

7. Description of Work Remove/replace supports for removal of interferences for SG 2A removal.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Hangers were removed/pinned for the removal of the 2A SG and replaced/unpinned after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Page 1 of 4

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

Signed Will Lat ENGINEER Date 9/28/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by ASBCT

have inspected the components described in this Owner's Report during the period 8-18-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

OKlein
Inspector's Signature

Commissions NC 853, N, I
National Board, State, Providence and Endorsements

Date 9-29-04

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 3 of 4

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

3a. Work Order # 98516356
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM1 WP23080A

4. Identification of System Main Steam Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
G	Hanger/Support 2-01A-0-1481A-H10B	Duke Power Company	N/A	N/A	N/A	1973	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
H	Hanger/Support 2-01A-0-1481A-H6B	Duke Power Company	N/A	N/A	N/A	1973	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
I	Hanger/Support 2-01A-0-1481A-H11B	Duke Power Company	N/A	N/A	N/A	1973	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Remove/replace supports for removal of interferences for SG 2A removal.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remarks: Hangers were removed/pinned for the removal of the 2A SG and replaced/unpinned after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

W. H. H.

Date

9/28/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HJBCT have inspected the components described in this Owner's Report during the period 8-8-04 to 8-27-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

W. H. H.
Inspector's Signature

Commissions

NC 853, N, I

National Board, State, Providence and Endorsements

Date

9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 2

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

3a. Work Order # 98516357
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM1 WP 23080B

4. Identification of System Main Steam Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Install main steam piping for SG 2B.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Existing feedwater piping had to be removed to allow installation of the 2B steam generator. This NIS-2 covers the welding for re-installing this piping. Applied Code Case V-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

Walt J. Pat

Date

07/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by H5BCT

have inspected the components described in this Owner's Report during the period 2-7-04 to 8-19-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions

NC853, N I

National Board, State, Providence and Endorsements:

Date

9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 2

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

3a. Work Order # 98516357
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM1 WP23080B

4. Identification of System Main Steam Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-01A-0-1480A-H7A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-01A-0-1480A-H1A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-01A-0-1481A-H6A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-01A-0-1481A-H9A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-01A-0-1481A-H3A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-01A-0-1481B-H2A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Sheet 2 of 2

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

7. Description of Work Remove/replace supports for removal of Interferences for SG 2B removal.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remarks: Hangers were removed/pinned for the removal of the 2B SG and replaced/unpinned after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed Will Pat ENGINEER Date 9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by H S B CT have inspected the components described in this Owner's Report during the period 2-7-04 to 8-19-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

G Klein
Inspector's Signature

Commissions NC 853, N, I
National Board, State, Providence and Endorsements

Date 9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98516357
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM1 WP23080B

4. Identification of System Main Steam Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-01A-0-1481A-H8A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C							<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D							<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E							<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F							<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Remove/replace supports for removal of Interferences for SG 2B removal.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Hangers were removed/pinned for the removal of the 2B SG and replaced/unpinned after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed Walt Hat ENGINEER Date 9/29/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-7-04 to 8-19-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

W. Klein
Inspector's Signature

Commissions NC853, N, I
National Board, State, Providence and Endorsements

Date 9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 2

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

3a. Work Order # 98516899
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM2 WP 23085A

4. Identification of System Feedwater Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Page 2 of 2

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

7. Description of Work Install feedwater piping for SG 2A.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Existing feedwater piping had to be removed to allow installation of the 2A steam generator. This NIS-2 covers the welding for re-installing this piping. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed W. J. Pat SGRN SENIOR
ENGINEER

Date 09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT

have inspected the components described in this Owner's Report during the period 8-19-04 to 8-19-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

W. Klein
Inspector's Signature

Commissions NC853, N.I.
National Board, State, Providence and Endorsements

Date 9-29-04

Page 2 of 2

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 2

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

3a. Work Order # 98516899
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM2 WP23085A

4. Identification of System Feedwater Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-03-0-1480B-H6B	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Secure/restrain supports for removal of Interferences for SG 2A removal.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Snubber was removed for the removal of the 2A SG and reinstalled after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Will 2nd SGRN SENIOR
ENGINEER

Date 9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of CA and employed by HSB-CT have inspected the components described in this Owner's Report during the period 8-10-04 to 8-18-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

E.O. Dyer
Inspector's Signature

Commissions CA-1969 N.A.I.
National Board, State, Providence and Endorsements

Date 9-23-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98516911
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM2 WP 23085B

4. Identification of System Feedwater Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Install feedwater piping for SG 2B.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Existing feedwater piping had to be removed to allow installation of the 2B steam generator. This NIS-2 covers the welding for re-installing this piping. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

W. H. H. H.

Date

9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of CA and employed by HSB-CT have inspected the components described in this Owner's Report during the period 2-10-04 to 8-12-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

E. O. P.

Inspector's Signature

Commissions

CA-1269 N.A.I.

National Board, State, Providence and Endorsements

Date

9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98516911
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM2 WP23085B

4. Identification of System Feedwater Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-03-0-1479A-H2A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Remove/restore supports for removal of Interferences for SG 2B removal/replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Hanger was removed for the removal of the 2B SG and reinstalled after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed W. H. Smith SGRH SENIOR
ENGINEER

Date 07/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of CA and employed by HEB-CT have inspected the components described in this Owner's Report during the period 2-10-04 to 2-12-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

E. O. Smith
Inspector's Signature

Commissions CA-1969 N.A.I.
National Board, State, Providence and Endorsements:

Date 9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98532818
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM5 WP 23522A

4. Identification of System SG Secondary Drains Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Page 2 of 2

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Re-install SG secondary drain piping for SG 2A.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Existing SG secondary drain piping had to be removed to allow removal of old SG and installation of the new 2A steam generator. This NIS-2 covers the welding for re-installing this piping. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

[Signature]

SGRA SENIOR
ENGINEER

Date

09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of CA and employed by HSB-CT have inspected the components described in this Owner's Report during the period 2-12-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]

Inspector's Signature

Commissions

CA-1969

N.A.I

National Board, State, Providence and Endorsements

Date

9-29-04

Page 2 of 2

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98532818
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM5 WP23522A

4. Identification of System SG Secondary Drain Lines Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-04-0-1478A-H14A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-04-0-1478A-H11A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-04-0-1478A-H5A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-04-0-1478A-H3A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-04-0-1478A-H2A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-04A-0-1478A-H21A	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Remove and replace SG 2A secondary drain lines in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Listed hangers were removed for the removal of the 2A SG and replaced after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Rick L. D.

SGEN SENIOR
ENGINEER

Date

9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of CA and employed by HSB-CT have inspected the components described in this Owner's Report during the period 2-12-04 to 8-18-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.O. Dyer
Inspector's Signature

Commissions

CA-1069 N.A.I

National Board, State, Providence and Endorsements

Date

9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98532820
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM5 WP 23522B

4. Identification of System SG Secondary Drains Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Re-Install SG secondary drain piping for SG 2B.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remarks: Existing SG secondary drain piping had to be removed to allow removal of old SG and installation of the new 2B steam generator. This NIS-2 covers the welding for re-installing this piping. Applied Case Code N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRM SENIOR
ENGINEER

Expiration Date N/A

Signed

W. H. H. H.

Date

09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of CA and employed by HSB-CT

have inspected the components described in this Owner's Report during the period 2-12-04 to 2-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

W. O. D.
Inspector's Signature

Commissions CA-1963 N.A.I.

National Board, State, Providence and Endorsements

Date

9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98532820
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM5 WP23522B

4. Identification of System SG Secondary Drain Lines Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-04A-0-1478A-H5B	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-04A-0-1478A-H3B	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-04A-0-1478A-H2B	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-04A-0-1478A-H14B	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-04A-0-1478A-H11B	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-04A-0-1478A-NPS-H51	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Remove and replace SG 2B secondary drain lines in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remarks: Listed hangers were removed for the removal of the 2B SG and replaced after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed W. H. H. H.

Date 09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of CA and employed by HSB-CT have inspected the components described in this Owner's Report during the period 2-12-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

F. O. D. H.
Inspector's Signature

Commissions

CA-1069 N, A, I
National Board, State, Providence and Endorsements

Date 9-29-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 05/10/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98537912
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM6 WP 23524A

4. Identification of System SG Vent System Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Re-Install SG vent piping for SG 2A.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Existing SG vent piping had to be removed to allow removal of old SG and installation of the new 2A steam generator. This NIS-2 covers the welding for re-installing this piping. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRM SENIOR
ENGINEER

Expiration Date N/A

Signed Will Hat

Date 09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-7-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Mike
Inspector's Signature

Commissions NC B53, N, I
National Board, State, Providence and Endorsements

Date 9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 2

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

3a. Work Order # 98537912
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM6 WP23524A

4. Identification of System SG Vent Piping Installation Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-57-1481C-H6631	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-57-1481C-H6632	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-50-1481C-H6642	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-50-1481C-H6646	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-50-1481C-H6640	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-50-1481C-H6641	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Remove and replace SG 2A vent lines in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Hangers were removed for the removal of the 2A SG and replaced after installation of the new replacement steam generator. Several hangers are new.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGEN SENIOR
ENGINEER

Expiration Date N/A

Signed

W. J. Stat

Date

09/28/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT

have inspected the components described in this Owner's Report during the period 2-7-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

W. J. Stat
Inspector's Signature

Commissions

NC 853, N.I.
National Board, State, Providence and Endorsements

Date

9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98537912
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM6 WP23524A

4. Identification of System SG Vent Piping Installation Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-57-1481C-H6630	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-50-1481C-H6643	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-50-1481C-H6644	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-50-1481C-H6645	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-50-1481C-H6639	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-57-1481A-H6635	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Remove and replace SG 2A vent lines in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Hangers were removed for the removal of the 2A SG and replaced after installation of the new replacement steam generator. Several hangers are new.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A SGRH SENIOR ENGINEER Expiration Date N/A

Signed

[Signature]

Date

9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HTRCT

have inspected the components described in this Owner's Report during the period 8-7-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions

9-30-04 NCPSB, N.I
National Board, State, Providence and Endorsements

Date

9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98537912

Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM6 WP23524A

4. Identification of System SG Vent Piping Installation Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-57-1481A-H6636	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-57-1481C-H6634	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-57-1481C-H6633	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-50-1481C-H6637	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support Sk-23086 AM6-035	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support Sk-23086 AM6-057	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Remove and replace SG 2A vent lines in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Hangers were removed for the removal of the 2A SG and replaced after installation of the new replacement steam generator. Several hangers are new.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

[Signature]

Date

9/28/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT

have inspected the components described in this Owner's Report during the period 2-7-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions

NC 853, N, I

National Board, State, Providence and Endorsements

Date

9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

Sheet _____ of _____

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98537912
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM6 WP 23524A

4. Identification of System SG Vent System Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve 2FDW-601	Flowserve	80AXS	1189	N/A	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
B	Valve 2FDW-604	Flowserve	84AXS	1193	N/A	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Re-Install SG vent piping for SG 2A.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig Test Temp. _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Existing SG vent piping had to be removed to allow removal of old SG and installation of the new 2A steam generator. Modification involved installing new valves. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A SGRH SENIOR ENGINEER Expiration Date N/A

Signed [Signature] Date 09/28/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-7-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NC 853, N, I
Inspector's Signature National Board, State, Providence and Endorsements

Date 9-30-04

WP 23524A Valve Traceability Table

DPC Stock Code	UTC	MCN	Valve Number	Serial No.
538523	1064621	P078-0901	2FDW-601	80AXS
538523	1065255	P078-0904	2FDW-604	84AXS

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Div. 1

Pg. 1 of 2

1. Manufactured by FLOWERVE CORPORATION, 1900 S. Saunders St., Raleigh, NC 27603
(Name and Address of N Certificate Holder)

2. Manufactured for DUKE ENERGY CORP CHARLOTTE NC 28201
(Name and Address of Purchaser or Owner)

3. Location of Installation DUKE ENERGY CORP, OCONEE SENECA SC 29672
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 1 1/2" Outlet Size 1 1/2"
(Inch) (Inch)

	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	800 GB	80AXS ✓	N/A	03-25070-01 / 0	1	1189 ✓	2003
(2)		81AXS ✓				1190 ✓	
(3)		82AXS ✓				1191 ✓	
(4)		83AXS ✓				1192 ✓	
(5)		84AXS ✓				1193 ✓	
(6)		85AXS ✓				1194	
(7)		86AXS ✓				1195 ✓	
(8)	800 GB	87AXS ✓	N/A	03-25070-01 / 0	1	1196 ✓	2003
(9)							
(10)							

5. 1 1/2" GLOBE VALVE

(Brief description of service for which equipment was designed)

25070

6. Design Conditions 1425 psi 680 °F or Valve Pressure Class 800 (1)
(Pressure) (Temperature)

7. Cold Working Pressure 1973 psi at 100 °F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
M7908	SA216 GR WCB	FLOWERVE	BODY -
(b) Forgings			
H508	SA479 T 316	NOVA	BONNET -
H590	A564 T630 1075	NOVA	DISC
Q1754-G30X	SA564 T630 1075	ASKEW	GASKET RETAINER -

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Page 4 of 5
(WP 23524A, VALVES 2F6W-601 & 604)

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98537914
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM6 WP 23524B

4. Identification of System **SG Vent System** Class **2**

5. (a) Applicable Construction Code **ASME III NC** 1989 Edition **N/A** Addenda, **No Addenda** /Code Cases **N/A**

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Re-Install SG vent line piping for SG 2B.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Existing SG vent line piping had to be removed to allow removal of old SG and installation of the new 2B steam generator. This NIS-2 covers the welding for re-installing this piping. Applied Code Cse N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed Will Neth ENGINEER Date 09/23/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-7-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature Ad Klein Commissions NC 853, N, I
National Board, State, Providence and Endorsements

Date 9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 2

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

3a. Work Order # 98537914
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM6 WP23524B

4. Identification of System **SG Vent Piping Installation** Class **2**

5. (a) Applicable Construction Code **ASME III NC 1989** Edition **N/A** Addenda, **No Addenda** /Code Cases **N/A**
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-50-1480A-H6647	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-50-1480A-H6648	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-50-1480A-H6649	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-50-1480A-H6650	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-57-1480B-H6619	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-57-1480B-H6620	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Remove and replace SG 2B vent lines in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Hangers were removed for the removal of the 2B SG and replaced after installation of the new replacement steam generator. Note: Several of these hangers are new.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

W. H. H. H.

Date

9/30/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 8-18-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

A. Klein
Inspector's Signature

Commissions

NC 853, N, I

National Board, State, Providence and Endorsements

Date

9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98537914
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM6 WP23524B

4. Identification of System SG Vent Piping Installation Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support SK-23086 AM6-036	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-57-1481A-H6614	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-57-1481A-H6611	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-57-1481A-H6624	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-57-1481A-H6651	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-57-1479A-H6612	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

Sheet 2 of 2

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Remove and replace SG 2B vent lines in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Hangers were removed for the removal of the 2B SG and replaced after installation of the new replacement steam generator. Note: Several of these hangers are new.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [Signature] ENGINEER Date 9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by H580T have inspected the components described in this Owner's Report during the period 8-18-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions NC 853, N.I.
National Board, State, Providence and Endorsements

Date 9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 08/31/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 5

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

3a. Work Order # 98537914
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AM6 WP 23524B

4. Identification of System SG Vent System Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve 2FDW-606	Flowserve	81AXS	1190	N/A	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
B	Valve 2FDW-609	Flowserve	83AXS	1192	N/A	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Re-Install SG vent piping for SG 2B.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Existing SG vent piping had to be removed to allow removal of old SG and installation of the new 2B steam generator. Modification involved installing new valves. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

Will Hat

Date

9/23/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSC have inspected the components described in this Owner's Report during the period 2-7-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Allein
Inspector's Signature

Commissions

NC853, N, I

National Board, State, Providence and Endorsements

Date

9-30-04

WP 23524B Valve Traceability Table

DPC Stock Code	UTC	MCN	Valve Number	Serial No.
538523	1065253	P078-0902	2FDW-606	81AXS
538523	1065254	P078-0903	2FDW-609	83AXS

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Div. 1

Pg. 1 of 2

1. Manufactured by FLOWERVE CORPORATION, 1900 S. Saunders St., Raleigh, NC 27603
(Name and Address of N Certificate Holder)
2. Manufactured for DUKE ENERGY CORP CHARLOTTE NC 28201
(Name and Address of Purchaser or Owner)
3. Location of Installation DUKE ENERGY CORP, OCONEE SENECA SC 29672
(Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 1 1/2" (Inch) Outlet Size 1 1/2" (Inch)

	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	800 GB	80AXS ✓	N/A	03-25070-01 / 0	1	1189 ✓	2003
(2)		81AXS ✓				1190 ✓	
(3)		82AXS ✓				1191 ✓	
(4)		83AXS ✓				1192 ✓	
(5)		84AXS ✓				1193 ✓	
(6)		85AXS ✓				1194	
(7)		86AXS ✓				1195 ✓	
(8)	800 GB	87AXS ✓	N/A	03-25070-01 / 0	1	1196 ✓	2003
(9)							
(10)							

5. 1 1/2" GLOBE VALVE

(Brief description of service for which equipment was designed)

25070

6. Design Conditions 1425 (Pressure) psi 680 (Temperature) °F or Valve Pressure Class 800 (1)
7. Cold Working Pressure 1973 psi at 100 °F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
<u>M7908</u>	<u>SA216 GR WCB</u>	<u>FLOWERVE</u>	<u>BODY</u>
(b) Forgings			
<u>H508</u>	<u>SA479 T 316</u> ✓	<u>NOVA</u>	<u>BONNET</u>
<u>H590</u>	<u>A564 T630 1075</u> ✓	<u>NOVA</u>	<u>DISC</u>
<u>Q1754-G30X</u>	<u>SA564 T630 1075</u>	<u>ASKEW</u>	<u>GASKET RETAINER</u>

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in Items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Page 4 of 5
(WCP 23524B, Valves 2FDW-606 & 609)

FORM NPV-1 (Back)

Pg. 2 of 2

Valve S/N _80AXS_ through _87AXS

[illegible]

9. Hydrostatic test 2975 [✓] psi. Disk Differential test pressure 2171 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction

of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1., Edition 1986

Addenda NO , Code Case No. N/A , Date 11/11/03

Signed Flowserv Corporation. by [Signature]
(IN Certificate Holder)

Our ASME Certificate of Authorization No. N-1562 to use the N symbol expires 11-26-06
(Date)

CERTIFICATION OF DESIGN

Design information on file at

FLOWSERVE CORP

Stress analysis report (Class 1 only) on file at _____

FLOWSERVE CORP

Design specifications certified by (1)

F.A. BENSINGER

PE State PA

Reg. No.

PE-31002-E

Stress analysis certified by (1)

RONALD S FARRELL

PE State NC

Reg. No.

028656

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB CT of Hartford Connecticut

have inspected the pump, or valve, described in this Data Report on 11 112 103, and state that, to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with ASME Code, Section III.

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

Date 11 1 12 103

Signed Charles F. Leggett Commissions NB# 8462 (A.N.I.) NC# 1073
(Inspector) (Nat'l Bd., State, Prov. and Loc.)

Page 5 of 5
(WP 23524B, Valves 2Fdu-606 & 609)

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet 1 of 2

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

3a. Work Order # 98541036

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

Repair Organization Job #

3b. NSM or MM # ON-23086 AME WP 23527

4. Identification of System Chemical Addition System Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Install new Chemical Addition flow path for both Unit 2 SGs..

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: SGRH Project added this mod per ONS request to add an addition method of adding chemicals to the Unit 2 SGs.. This NIS-2 covers the welding for installation of this piping. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

[Signature] [Signature] SGRH
SENIOR
ENGINEER

Date

9/29/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-9-04 to 5-30-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions

NC 853, N, I
National Board, State, Providence and Endorsements

Date

9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

Sheet of

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

3a. Work Order # 98541036
Repair Organization Job #

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

3b. NSM or MM # ON-23086 BM3 WP 23527

4. Identification of System Chemical Addition System Class 2

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve 2FDW-594	Flowserve	84AXJ	1149	N/A	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
B	Valve 2FDW-595	BNL Industrial	A981103-4-14	N/A	N/A	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Install new Chemical Addition flow path for SGs 2A & 2B.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig Test Temp. _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: The BM3 mod included adding a new alternate method to add chemicals to the steam generators. The modification involved installing new valves. Applied Code Case N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A SGRH SENIOR ENGINEER Expiration Date N/A

Signed Will Hat Date 9/23/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-9-04 to 5-30-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

W. Klein Commissions NC853, N, I
Inspector's Signature National Board, State, Providence and Endorsements

Date 9-30-04

WP 23527 Valve Traceability Table

DPC Stock Code	UTC	MCN	Valve Number	Serial No.
461336	1061349	P098-0905	2FDW-594	84AXJ
453842	1061603	P107-0894	2FDW-595	A981103-4-14

5138513370

FLOWSERVE

PAGE 06

CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* CORRECTED COPY
As Required by the Provisions of the ASME Code, Section III, Div. 1

Pg. 1 of 2

Manufactured by FLOWSERVE CORPORATION, 1900 S. Saunders St., Raleigh, NC 27603
(Name and Address of N Certificate Holder)

2. Manufactured for DUKE ENERGY CORP CHARLOTTE NC 28201
(Name and Address of Purchaser or Owner)

3. Location of Installation DUKE ENERGY CORP. OCONEE SENECA SC 29672
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 1 1/2" (inch) Outlet Size 1 1/2" (inch)

	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Std. No.	(g) Year Built
(1)	1878# SC ✓	84AXJ ✓	N/A	03-25064-01 / A	1	1149	2003
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. 1 1/2" SWING CHECK VALVE

(Brief description of service for which equipment was designed)

25064

6. Design Conditions 3345 (Pressure) psi 680 (Temperature) °F or Valve Pressure Class 1878 (1)

7. Cold Working Pressure 4637 psi at 100 °F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
M2777 ✓	SA216 GR WCB ✓	TECH CAST	BODY
(b) Forgings			
1G3875 ✓	SA479 T 316 ✓	COLONIAL	BONNET
H505 ✓	SA564 T 630 1075 ✓	NOVA	DISC
72240 ✓	SA479 T316 ✓	DUBOSE	BONNET RETAINER

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in Items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

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(WP 23527, Valves ZFDW-594 & 595)

FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. A981103-4-(13THRU16) ✓

8. Design conditions _____ psi _____ °F or valve pressure class ANSI 300# (1)
 (pressure) (temperature)
9. Cold working pressure 740 psi at 100°F
10. Hydrostatic test 1125 psi. Disk differential test pressure 820 psi ✓
11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by J. M. GWINN P.E. State MA Reg. no. 27151
 Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/04
 Date 08/21/03 Name BNL INDUSTRIES, INC. Signed [Signature]
 (N Certificate Holder) (authorized representative) ✓

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONN. and employed by ONEBEACON AMERICA INS. of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on 08/21/03, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 8.21.03 Signed [Signature] Commissions NB 7867 NA CT 1104 ✓
 (Authorized Inspector) (Nat'l. Bd. Incl. endorsements) and state or prov. and no.]

(1) For manually operated valves only.

Page 7 of 7

(WP 23527, Valves ZFDW-594 & 595)

FORM NIS-2 OWNER'S REPORT OF REPAIRS OR REPLACEMENTS
As Required By The Prov. Ins Of The ASME Code Section XI

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98621223

Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 BM4 WP 23535B

4. Identification of System Miscellaneous Mechanical Interferences Class 3

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Piping	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 3 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.

7. Description of Work Remove and re-install Miscellaneous Mechanical Interferences

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Existing Miscellaneous Mechanical Interferences had to be removed to allow removal of old SG and Installation of the new 2B steam generator. This NIS-2 covers the welding for re-installing any piping associated with this mod. Applied Case Code N-416-1.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRM SENIOR
ENGINEER

Expiration Date N/A

Signed

Will Hart

Date

9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-13-04 to 8-25-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

DeKlein
Inspector's Signature

Commissions

NC 853, N, I

National Board, State, Providence and Endorsements

Date

9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98621223
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 BM4 WP23535B

4. Identification of System Misc. Mechanical Interferences Class 3

5. (a) Applicable Construction Code ASME III ND 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-57-0-1481A-H21	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-57-0-1481A-H22	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-57-0-1481A-H20	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-57-0-1481A-H23	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-57-0-1481A-H19	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-57-0-1481A-H6	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Remove/replace SG 2B misc. mech. Interferences in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

5. (a) Applicable Construction Code ASME III ND 1989 Edition N/A Addenda, No Addenda /Code Case:

9. Remark: Hangers were removed for the removal of the 2B SG and replaced after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed Will Hat ENGINEER

Date 9/30/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT

have inspected the components described in this Owner's Report during the period 2-13-04 to 8-25-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NC 853, N, I
National Board, State, Providence and Endorsements

Date 9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98621223
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 BM4 WP23535B

4. Identification of System Misc. Mechanical Interferences Class 3

5. (a) Applicable Construction Code ASME III ND 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-57-0-1481A-H7	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-57-0-1481A-H9	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-57-0-1481A-H10	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-57-0-1481A-H17	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-57-0-1481A-H25	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-57-0-1481A-H15	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Remove/replace SG 2B misc. mech. interferences in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remarks: Hangers were removed for the removal of the 2B SG and replaced after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed Will Pat ENGINEER Date 9/30/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBC have inspected the components described in this Owner's Report during the period 8-25-04 to 8-25-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

AKlein
Inspector's Signature

Commissions NC 853, N, 7
National Board, State, Providence and Endorsements

Date 9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98621223
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 BM4 WP23535B

4. Identification of System Misc. Mechanical Interferences Class 3

5. (a) Applicable Construction Code ASME III ND 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-57-0-1481A-H14	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-57-0-1481A-H16	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Hanger/Support 2-57-0-1481A-H11	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D	Hanger/Support 2-57-0-1481A-H12	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
E	Hanger/Support 2-57-0-1481A-H13	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
F	Hanger/Support 2-57-0-1481A-H26	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Remove/replace SG 2B misc. mech. interferences in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remarks: Hangers were removed for the removal of the 2B SG and replaced after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

[Signature]

Date

9/30/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-13-04 to 8-25-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions

NC 853, N, I
National Board, State, Providence and Endorsements

Date

9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 6/14/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98621223

Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 BM4 WP23535B

4. Identification of System Misc. Mechanical Interferences Class 3

5. (a) Applicable Construction Code ASME III ND 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-57-0-1481A-H18	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-57-0-1481A-H5	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Remove/replace SG 2B misc. mech. Interferences in support of SG Replacement.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remarks: Hangers were removed for the removal of the 2E SG and replaced after installation of the new replacement steam generator.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [Signature] ENGINEER

Date 9/30/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by BSBCT have inspected the components described in this Owner's Report during the period 8-25-04 to 9-25-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions

NC 853, N, I
National Board, State, Providence and Endorsements

Date 9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 00/23/04

Sheet 1 of 4

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # WO 98648846/98540919 (Tendon Removal/Repl't)
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AS9 WP 21551 (Tendon Removal)
WP 23551 (Tendon Replacement)

4. Identification of System Reactor Containment Class CC

5. (a) Applicable Construction Code ASME III Div. 2 1992 Edition N/A Addenda, 1992 /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Tendons	Duke Power Company	See Attached Table A For Affected Tendon Number	N/A	N/A	1974	<input type="checkbox"/> Repaired <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Tendons	Duke Power Company	See Attached Table B For Affected Tendon Number	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

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

7. Description of Work Removal/replacement of tendons for construction opening.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Selected tendons were removed for installation of construction opening. Closure of construction opening required tendon replacement. Table A lists tendons that were removed and Table B documents final configuration of installed tendons per this modification.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed [Signature]

Date 09/23/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 9-9-04 to 9-9-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions NC853, N, I
National Board, State, Providence and Endorsements

Date 9-30-04

ONS 2 TENDON

E A

MOVED DURING 2EOC20

1. Owner	Duke Power Company					1.a Date	09/23/04				
Address	526 S. Church Street, Charlotte, NC 28201-1006					Sheet	3 of 4				
2. Plant	Oconee Nuclear Station										
Address	7800 Rochester Hwy, Seneca, S.C. 29672										
2a. Unit						3a. Work Order #	WO 98648846/98540919 (Tend. Removal/Repl)				
3. Work Performed By	Duke Power Company					Repair Organization Job #					
Address	526 S. Church Street, Charlotte, NC 28201-1006										
Type Code Symbol Stamp	N/A Authorization No. N/A					3b. NSM or MM #	ON-23086 AS9 WP 21551 (Tendon Removal)				
							WP 23551 (Tendon Replacement)				
4. Identification of System	Reactor Containment Class CC										
5. (a) Applicable Construction Code	ASME III Div. 2 1992 Edition N/A Addenda, 1992					/Code Cases	N/A				
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements	1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)										
6. Identification of Components Repaired or Replaced and Replacement Components											

ONS Unit 2 Vertical Tendons						ONS Unit 2 Horizontal Tendons					
Tendon Number	Heat Code	Shop Head Heat Number	Heat Code	Field Head Heat Number	Wire Heat No.	Tendon Number	Heat Code	Shop Head Heat Number	Heat Code	Field Head Heat Number	Wire Heat No.
						42H46	59	6010089	73	6390475	
						42H47	73	6390475	73	6390475	
						42H48	59	6010089	73	6390475	
						42H49	73	6390475	73	6390475	A24418
23V29	30	6339225	73	6390475		42H50	73	6390475	73	6390475	A24418
23V30	38	6022665	73	6390475		42H51	73	6390475	73	6390475	A24418
34V1			73	6390475		42H52	59	6010089	73	6390475	A24418
34V2	59	6010089	73	6390475		42H53	73	6390475	73	6390475	A24418
34V3	59	6010089	73	6390475	13852	42H54	59	6010089	73	6390475	A24418
34V4	38	6022665	73	6390475		42H55	73	6390475	73	6390475	B5465
34V5	59	6010089	73	6390475		42H56	59	6010089	73	6390475	B5465
34V6	38	6022665	73	6390475		42H57	59	6010089	73	6390475	B5465
34V7	30	6339225	73	6390475		42H58	73	6390475	73	6390475	B5465
34V8	73	6390475	73	6390475	13852	42H59	59	6010089	73	6390475	B5465
34V9	73	6390475	73	6390475	13852	42H60	59	6010089	73	6390475	B5465
34V10	73	6390475	73	6390475	13852	42H61	59	6010089	73	6390475	B5465
34V11	38	6022665	73	6390475	13852	42H62	59	6010089	73	6390475	B5465
34V12	38	6022665	73	6390475	13852	42H63	73	6390475	73	6390475	B5465
34V13	38	6022665	52	6013827	13852	42H64	59	6010089	73	6390475	
34V14	38	6022665	73	6390475	13852	42H65	59	6010089	73	6390475	
34V15	59	6010089	73	6390475	13852						
34V16	73	6390475	73	6390475	13852						
34V17	38	6022665	73	6390475	13852	53H49	59	6010089	73	6390475	A00703
34V18	59	6010089	52	6013827	13852	53H50	38	6022665	73	6390475	A00703
34V19	59	6010089	52	6013827	13852	53H51	38	6022665	73	6390475	A00703
34V20	38	6022665	52	6013827	13852	53H52	59	6010089	73	6390475	A00703
34V21	30	6339225	73	6390475	13852	53H53	38	6022665	73	6390475	A00703
34V22	59	6010089	52	6013827	13852	53H54	38	6022665	73	6390475	A00703
34V23	38	6022665	73	6390475	13852	53H55	59	6010089	73	6390475	A00703
34V24	38	6022665	73	6390475	13852	53H56	59	6010089	73	6390475	A00703
34V25	38	6022665	73	6390475		53H57	38	6022665	73	6390475	A00703
						53H58	38	6022665	73	6390475	A00703
34V27	38	6022665	73	6390475		53H59	59	6010089	73	6390475	A00703
34V28	52	6013827	73	6390475		53H60	59	6010089	73	6390475	A00703
34V29	38	6022665	73	6390475		53H61	38	6022665	73	6390475	A00703
34V30	59	6010089	73	6390475		53H62	59	6010089	73	6390475	A00703
45V1	59	6010089	73	6390475		53H63	38	6022665	73	6390475	A00703
45V2	59	6010089	73	6390475		53H64	38	6022665			
45V3	38	6022665	52	6013827		53H65	59	6010089	73	6390475	
45V4	59	6010089	52	6013827		53H66	28	6013084	73	6390475	
45V5	38	6022665	52	6013827							
45V6	38	6022665	52	6013827							

TABLE B

a Date: 09/23/04

Sheet 4 of 4

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/23/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98644159 & 98540909 (Concrete Rem./Rpl't)
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AS9 WP 21550 (conc./rebar removal)
WP 23550 (conc./rebar replacement)

4. Identification of System Containment Class CC

5. (a) Applicable Construction Code per SGRP-SPEC-C-003 19 N/A Edition N/A Addenda, N/A /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Concrete (Removed for Construction Opening)	Duke Power Company	N/A	N/A	N/A	1974	<input type="checkbox"/> Repaired <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Concrete (Replaced for Restoring Containment)	Duke Power Company	N/A	N/A	N/A	2004	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C	Rebar	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work:

Creation and closure of construction opening for removing old RVHA/SG/s and installing new.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt

Pressure 59.921 psig Test Temp 84 °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Work involved removing concrete, rebar and liner plate to create the construction opening above the Unit 2 equipment hatch. After the RVH and two SGs were replaced the old liner plate was re-installed, rebar re-installed and new concrete placed to re-establish containment. Testing was accomplished with the integrated leak rate test. Pressure and temperature numbers came from the Unit 2 Containment Integrated Leakage Test Report, reading # 248.

liner 2/11 9/30/04
RKH 9-30-04

(Applicable Manufacturer's Data Records to be Attached)

CERTIFIC/N/A 1974

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A SGRA SENIOR Expiration Date N/A
ENGINEER

Signed [Signature] Date 9/30/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-13-04 to 8-25-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NC 853, N, I
Inspector's Signature National Board, State, Providence and Endorsement's

Date 9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/30/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98540994
Repair Organization Job # _____

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

3b. NSM or MM # ON-23086 AS9 WP 23555

4. Identification of System Containment Class MC

5. (a) Applicable Construction Code ASME Section VIII 1998 Edition N/A Addenda, 98 Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Containment Liner Plate	Duke Power Company	N/A	N/A	N/A	1974	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Creation of construction opening for removing old RVHA/SG/s and installing new.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Other ☐ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remark: Work involves cutting the liner plate above the equipment hatch for construction opening. After moving new RVHA and S/Gs into containment the cut out liner plate was then welded back in place. Testing is accomplished with the integrated leak rate test after plate is re-welded, concrete replaced and tendons replaced. Pressue and temperature numbers came from the Unit 2 Containment Integrated Leakage test Report, reading # 248.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A SGRH SENIOR ENGINEER Expiration Date N/A

Signed Will Hatt Date 9/30/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commision issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBC have inspected the components described in this Owner's Report during the period 2-13-04 to 5-17-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

W. Klein Commissions NC 853, N, I
Inspector's Signature National Board, State, Providence and Endorsement's
Date 9-30-04

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 9

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98624546(Removal), 98617114(Replacement)

Repair Organization Job # _____

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

3b. NSM or MM # ON-23112 AM2 WP 21535H (Removal)
WP 23535H (Replacement)

4. Identification of System Reactor Coolant System Class 1

5. (a) Applicable Construction Code ASME III 1989 Edition N/A Addenda, No Addenda /Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Reactor Vessel Head	Babcock & Wilcox Co. Mt. Vernon, Indiana	620-0004-51-52	N-105	N/A	1970	<input type="checkbox"/> Repaired <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
B	Reactor Vessel Head	Babcock & Wilcox Canada	068S-02	209	N/A	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work Replaced Unit 2 Reactor Vessel Head

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Old reactor vessel head and the reactor vessel were certified under one N-1A form (National Board N-105). Only the reactor vessel head was replaced during ONS outage 2EOC20. CRDMs were removed from the old reactor vessel head and installed on the new reactor vessel head in same core locations. Applied Code Case N-416-1.
(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRN SENIOR
ENGINEER

Expiration Date N/A

Signed Will Hat

Date 9/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 2-10-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

AKlein
Inspector's Signature

Commissions

NC 853, N, I

National Board, State, Providence and Endorsements

Date

9-29-04

SHEET 1 OF 2

620-0004 FORM N-1A MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS
Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only
As required by the Provisions of the ASME Code Rules

1. Manufactured by Babcock & Wilcox Co. Mt. Vernon, Indiana
(Name and address of Manufacturer)
2. Manufactured for Duke Power Co. Oconee Nuclear Power Station
(Name and address of Purchaser)
3. Type Reactor Vessel No. (620-0004-51-52) Natl. Bd. No. N-105 Year Built 1970
(Type, or Vert.) (Mfrs. Serial) (State & State No.)
3a. Applicable ASME Code: Section III, Edition 1965, Addenda date Summer-1967, Case No. 6-30-67
A508-64-2 168 3/8" ID
4. Shell: Material 1332-2 T.S. 80,000 min Thk. 8.438 Allow 0 In. Diam. 171 3/8" ID Length 38 Ft. 3 13/16"
(Kind & Spec. No.) (Min. of range specified)
5. Seams: Long none H.T.¹ - X.R. - Efficiency - %
(If Class B)
Grirthbutt welded H.T.¹ yes X.R. yes No. of Courses 5
6. Heads: (a) Material See Supplemental Sheet #2 for Item #6
Location (Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave)
(a) top 6.625" 87 1/4" IR concave
(b) bottom 5.000" 87 1/4" IR concave
If removable, bolts used A540-P6-B23-1335-2 CL.3 145,000 T.S. 6 1/4" Dia. 60.
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)
7. Design pressure 2500 psi at 650 °F. at temp. of 40 °F. Charpy impact 30 ft-lb Hydrostatic Test @ 1000 °F
Pneumatic or Combination Press 3125 psi
8. Safety or Relief Valve Outlets: Number none Size - Location -
9. Nozzles:
Purpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material Thickness Reinforcement Material How Attached
See Supplemental Sheet #2 for Item #9
10. Inspection Manholes, No. none Size - Location -
Openings: Handholes, No. none Size - Location -
Threaded, No. none Size - Location -
11. Supports: Skirt yes Lugs - Legs - Other - Attached Welded to bottom head
(Yes or No) (Number) (Number) (Describe) (Where & How)
12. Remarks: A. Class A reactor vessel. Contents: water.
B. See Supplemental Sheet #2 for additional remarks.

(Brief description of purpose of the vessel—State Contents.)

¹ If Postweld Heat-Treated.

² List other internal or external pressure with coincident temperature when applicable.

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules of construction of the ASME Code, Section III.

Date March 24 19 71 Signed Babcock & Wilcox Co.
(Manufacturer)

By C. J. Hien
Project Engineering NPGD
Component Engineering

Certificate of Authorization Expires April 10, 1972

CERTIFICATION OF DESIGN

Design information on file at Babcock & Wilcox Co. Barberton, Ohio
Stress analysis report on file at Babcock & Wilcox Co. Barberton, Ohio
Design specifications certified by Glenn J. Snyder Prof. Eng. yes State Va. Reg. No. 2235
Stress analysis report certified by James P. Butti Prof. Eng. yes State Ohio Reg. No. E-29810

CERTIFICATE OF SHOP INSPECTION

VESEL MADE BY Babcock & Wilcox Co. at Mt. Vernon, Indiana
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of - and employed by Hartford S.B.I. & I. Co. of Hartford, Connecticut
have inspected the pressure vessel described in this manufacturer's data report on October 17 19 70, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the ASME Code Section III.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date March 24 19 71
R. L. McLaughlin Inspector's Signature
Commissions NB #3864
National Board, State, Province and No.

FORM N-1A MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS
Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only
As required by the Provisions of the ASME Code Rules

1. Manufactured by Babcock & Wilcox Co. Mt. Vernon, Indiana
(Name and address of manufacturer)
2. Manufactured for Duke Power Co. Oconee Nuclear Power Station
Courtney, South Carolina
(Name and address of purchaser)
3. Type Reactor Vessel No. (620-0004-51-52) Natl. Bd. No. N-105 Year Built 1970
(Hess. or Vert.) (U.S. Serial) (State & State No.)

6.(a) Top head material: A533-B-1-1339-2. T.S. 80,000 and A508-64-2-1332-2 T.S. 80,000.
6.(b) Bottom head: A302-B-1339. T.S. 80,000 and A508-64-2-1332-2. T.S. 80,000.

9. Nozzles:

[illegible]

Remarks

C. Vessel clad internally with 1/8" minimum SA-371 ER308L except a band in the guide lug area of lower shell, attachment welds of control rod housings and attachment welds of instrumentation nozzles, which is inconel ER-NICRFE-3.

D. Shell flange material: A508-64-2-1332-2. T.S. 80,000.

Shell flange size: 165 3/8" ID x 200" OD x 22" flange thickness.

Closure head flange material: A508-64-2-1332-2. T.S. 80,000.

Closure head flange size: 152 3/8"ID x 200"OD x 30" flange thickness.

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

Page 5 of 9

Pg. 1 of 3

1. Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3

2. Manufactured for Duke Energy Corporation, 13225 Hagers Ferry Road, Huntersville, NC, 28078-8985

3. Location of installation Oconee Nuclear Power Plant Unit 2, South Carolina

4. Type: 068SE001 See List #1 See List #1 — 2003
(drawing no.) (Mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1989 No Addenda 1 (See Note #1) —
(edition) (addenda data) (class) (Code Case no.)

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

7. Remarks: JSW N-2 form for head forging is attached.

8. Nom. thickness (in.) See List #2 Min. design thickness (in.) See List #2 Dia. ID (ft & in.) 12'-8 7/16" Length overall (ft & in.) 8'-5"

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report.

Part or Appurtenance Serial Number		National Board No. In Numerical Order	
1)	068S-02		
2)			
3)			
4)			
5)			
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8)			
9)			
10)			
11)			
12)			
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37)			
38)			
39)			
40)			
41)			
42)			
43)			
44)			
45)			
46)			
47)			
48)			
49)			
50)			

Design pressure 2500 Psig. Temp. 600 °F Hydro. test pressure 3125 psig At temp. 70°F Min.

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

Certificate Holder's Serial Nos. 068S-02 through -

CERTIFICATION OF DESIGN

Design specification certified by M. C. Keck P.E. State NC Reg. No. 18367
(when applicable)

Design report* certified by L. Vizi Province Ont. P.E. State Ont. Reg. No. 4824420
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Reactor Vessel Head
 Conforms to the rules of construction of the ASME Code, Section III, Division 1.
 NPT Certificate of Authorization No. N-2791 Expires January 23, 2004

Date Jan. 20, 04 Name Babcock & Wilcox Canada Signed [Signature]
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ontario and employed by Technical Standards & Safety Authority
 of Ontario have inspected these items described in this Data Report on 01/20/04, and state that to the Best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1.
 Each part listed has been authorized for stamping on the date shown above.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising connected with this inspection.

Date 01/20/04 Signed [Signature] Commissions NB# 8112-B-N
(Authorized Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

NUCLEAR PARTS AND APPURTENANCES*
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Page 7 of 9

Pg. 3 of 3

Certificate Holder's Serial Nos 068S-02 through ---
 National Board Nos 209 through ---

Manufactured and certified by Babcock & Wilcox Canada, 581 Coronation Boulevard, Cambridge, Ontario N1R 5V3

2. Manufactured for Duke Energy Corporation, 13225 Hagers Ferry Road, Huntersville, NC, 28078-8985

3. Location of installation Oconee Nuclear Power Plant Unit 2, South Carolina

4. Type; 068SE001 See List #1 See List #1 --- 2003
(drawing no.) (Mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1989 No Addenda 1 (See Note #1) ---
(edition) (addenda date) (class) (Code Case no.)

List #1:

	Material Specification	Tensile Strength (Min.)
Closure Head	SA-508 Cl. 3	80 ksi
Lifting Lugs	SA-508 Cl. 3	80 ksi
CRDM Flange	SA-182 Gr. F316LN	70 ksi
CRDM Tube	SB-167 UNS N06690	69.9 ksi

List #2:

	Nominal Thickness	Minimum Design Thickness
Closure Head	7.00"	4.41"
Lifting Lugs	5.625"	5.50"
CRDM Flange	2.75"	2.48"
CRDM Tube	0.625"	0.204"

Note #1:

Per NR 26755, temper bead repairs were done on selected CRDM to head welds. The repaired welds were examined in accordance with the rules of NB-4622.11 (d) (3) per the ASME Code, Section III, Division 1, 1992 Edition with 1994 Addenda. This is the only instance for this component that the ASME Code, Section III, Division 1, 1989 No Addenda does not apply.

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

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

Page 8 of 9

Pg. 1 of 2

1. Manufactured and certified by The Japan Steel Works, Ltd., Muroran Plant/4 Chatsu-sachi, Muroran, Hokkaido, 051-8505 Japan
(name and address of NP Certificate Holder)
2. Manufactured for Babcock & Wilcox, 591 Coronation Blvd., Cambridge, Ontario, N1R 5Y3, Canada
(name and address of purchaser)
3. Location of installation Cconee Nuclear Power Plant Unit 1, 2 & 3 Cconee, South Carolina
(name and address)
4. Type ML48494W, Rev. 6 SA-508, Cl. 3 Min. 80ksi - 2002
(drawing no.) (mat'l. spec. no.) (tensile strength) (ICANI) (year built)
5. ASME Code, Section III, Division 1: 1989 No addenda 1 -
(edition) (addenda date) (class) (ICode Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -
(no.)
7. Remarks: * Hydrostatic test is not performed in The Japan Steel Works, Ltd.
Cladding thickness is min. 0.20" from base metal
Cladding materials are STA-5.4, AWS Cl. E309L-16 + E308L-16
8. Nom. thickness (in.) 7.00" Min. design thickness (in.) 7.00" Dia. ID (ft & in.) 12'-3 7/16 length overall (ft & in.) 6'-3 3/4"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 1064	446
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
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(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

BWC
INCOMING INSPECTION
JUN 3 2002
O.C. 16
APPROVED

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure N/A at temp. -
(when applicable)

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

(7/96) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

* P.O. No. : CM3323478
Heat No. : 01W61-1-1

JSW Job No. : FNI-3003
JSW PC. No. : 3



E00040

Certificate Holder's Serial Nos. 1064 through

CERTIFICATION OF DESIGN

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part
 conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2725 Expires June 29, 2004
The Japan Steel Works, Ltd.
 Date Mar. 14, 2002 Name Muroran Plant Signed J. Saiz
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

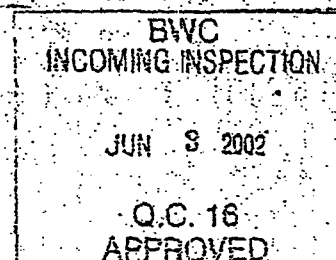
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province
 of ILLINOIS and employed by H.S.S.I. & I. Co.
 of HARTFORD, CT. have inspected these items described in this Data Report on MARCH 14, 2002, and state that to the
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
 III, Division 1. Each part listed has been authorized for stamping on the date shown above.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
 in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage
 or loss of any kind arising from or connected with this inspection.

Date Mar. 14, 2002 Signed [Signature] Commissions NE310104, N, B, I.
(Authorized Nuclear Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

Removed for further
 manufacturing 06/06/02
 To be sent to customer
 with the data package.

S. Bonkua

Wimpson Ave.
 01/06/04.



FORM NIS-2 OWNER'S REPORT OF REPAIRS OR REPLACEMENTS
As Required By The Prov. of The ASME Code Section XI

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 9/30/04

Sheet 1 of 3

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98617114
Repair Organization Job # _____

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

3b. NSM or MM # ON-23112 Part AM2 WP23535H

4. Identification of System Reactor Coolant System Class 1

5. (a) Applicable Construction Code ASME 1989 Edition N/A Addenda, No Addenda /Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1 Name of Component	Column 2 Name of Manufacturer	Column 3 Manufacturer Serial Number	Column 4 National Board Number	Column 5 Other Identification	Col. 6 Year Built	Column 7 Repaired, Replaced, or Replacement	Column 8 ASME Code Stamped (yes or no)
A	Segment Flange	Framatome ANP	SEE ATTACHED SPREADSHEET FOR SERIAL NUMBERS	N/R	SEE ATTACHED SPREADSHEET FOR CORE LOCATIONS	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hold Down Bolts	Framatome ANP	SEE ATTACHED SPREADSHEET FOR SERIAL NUMBERS	N/R	SEE ATTACHED SPREADSHEET FOR CORE LOCATIONS	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) Information in items 1 through 6 on this 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.

7. Description of Work New segment flange and 8 hold down bolts installed on each core location.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other ☐ Exempt

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

Pressure _____ psig Test Temp _____ °F

9. Remarks Installed old CRDMs with new segment flange (split nut ring) and 8 - 1 1/8" hold down bolts on the CRDM Core Locations listed. Old segment flanges were left on old head and old hold down bolts were discarded as radioactive waste. Attached spreadsheet lists core location for each of the new segment flanges and bolts used to install the CRDMs.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR
ENGINEER

Expiration Date N/A

Signed

[Signature]

Date

9/30/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by ASBCT

have inspected the components described in this Owner's Report during the period 12-10-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]

Inspector's Signature

Commissions

NC 953, N, I

National Board, State, Providence and Endorsements

Date

9-30-04

2EOC20 Split Nut Ring and Hold Down Bolt Location Database

1. Owner	Duke Power Company			1.a Date	9/30/04		
Address	526 S. Church Street, Charlotte, NC 28201-1006			Sheet	3 of 3		
2. Plant	Oconee Nuclear Station						
Address	7800 Rochester Hwy. Seneca, S.C. 29672						
2a. Unit				3a. Work Order #	98617114		
3. Work Performed By Duke Power Company				Repair Organization Job #			
Address	526 S. Church Street, Charlotte, NC 28201-1006			3b. NSM or MM #	ON-23112 Part AM2 WP23535H		
Type Code Symbol Stamp	N/A Authorization No. N/A Expiration Date N/A						
4. Identification of System	Reactor Coolant System			Class	1		
5. (a) Applicable Construction Code	ASME 1989 Edition N/A Addenda, No Addenda			/Code Cases	N/A		
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements	1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)						
6. Identification of Components Repaired or Replaced and Replacement Components							
Core Location	Nut Ring S/N	Hold Down Bolt S/Ns		Core Location	Nut Ring S/N	Hold Down Bolt S/Ns	
B6	GN-49	GN-7457,7510,7295,7446,7372,7537,7489,7639		K3	GN-58	GN-7444,7241,7325,7174,7477,7276,7216,7470	
B8	GN-41	GN-7296,7561,7517,7385,7460,7170,7509,7837		K5	GN-59	GN-7220,7205,7518,7328,7496,7502,7344,7618	
B10	GN-33	GN-7568,7416,6797,6354,7301,7224,6349,7414		K7	GN-38	GN-7369,7259,7234,7200,7181,7339,7168,7340	
C5	GN-44	GN-7515,7469,7306,7453,7567,6538,7327,7643		K9	GN-57	GN-7164,7249,7349,7593,7525,7233,7638,7304	
C7	GN-5	GN-7575,7417,7565,7559,7283,7270,7222,7560		K11	GN-66	GN-7631,7513,7332,7424,7463,7160,7615,7368	
C9	GN-46	GN-7622,7599,7176,7236,7600,7603,7534,7543		K13	GN-68	GN-7319,7371,7486,7225,7274,7388,7636,7356	
C11	GN-62	GN-7314,7426,7478,7475,7548,7193,6565,6581		L2	GN-28	GN-6763,6814,7336,7251,7165,7383,7608,7175	
D4	GN-52	GN-7256,7420,7573,7293,7596,7240,7229,7519		L4	GN-34	GN-7474,7440,7359,7431,7508,7522,7617,7394	
D6	GN-17	GN-7830,7429,7443,7507,7554,6837,7263,7326		L6	GN-27	GN-6718,7389,7467,7626,7495,7623,7201,7255	
D8	GN-56	GN-7413,7273,7586,7563,7436,7238,7271,7564		L8	GN-63	GN-7311,7260,7594,7197,7472,7434,7454,7397	
D10	GN-17	GN-7448,7488,7438,7491,7290,7569,7363,7562		L10	GN-50	GN-7213,7516,7350,7557,7387,7178,7287,7302	
D12	GN-9	GN-6719,6768,7545,7172,7606,7199,6749,7375		L12	GN-51	GN-7391,7398,7390,7323,7570,6561,7376,7190	
E3	GN-7	GN-7353,7452,7551,7549,7524,7316,7641,7523		L14	GN-53	GN-7341,7307,7441,6771,6544,7571,7484,7632	
E5	GN-2	GN-7583,7188,6847,7185,7485,7539,7619,7364		M3	GN-21	GN-7267,7566,7303,7634,7348,7150,7511,7261	
E7	GN-6	GN-7403,7428,7580,7581,7447,7433,7503,7231		M5	GN-13	GN-7159,7450,7179,7195,7346,6717,7620,7244	
E9	GN-23	GN-6574,7412,7182,7538,7601,7235,7374,7219		M7	GN-12	GN-7498,7456,7187,7281,7597,6542,7451,7152	
E11	GN-35	GN-7184,6761,7459,7280,7611,7367,7278,7482		M9	GN-43	GN-7324,7419,7202,7227,7553,7228,7439,7279	
E13	GN-45	GN-7264,7252,7345,7555,7531,7247,7358,7320		M11	GN-14	GN-7189,7366,7365,7505,7305,7552,7648,7192	
F2	GN-19	GN-7334,7258,7243,7647,7183,7309,7158,7621		M13	GN-25	GN-7421,7400,7449,7445,7645,7337,7298,7223	
F4	GN-67	GN-7406,7277,7558,7186,7352,7535,7330,7415		N4	GN-69	GN-7308,7338,7362,7402,7530,7282,7487,7629	
F6	GN-8	GN-7455,7476,7458,7529,7242,6350,7471,7149		N6	GN-10	GN-7262,7208,6584,7595,7318,7226,7492,6740	
F8	GN-37	GN-7504,7396,7198,6562,6774,7607,7497,7378		N8	GN-64	GN-7550,7546,7614,7248,7321,7542,7399,7628	
F10	GN-55	GN-7254,7410,7191,7237,7462,6777,6370,7395		N10	GN-15	GN-7576,7430,7230,7215,7232,7269,7250,7409	
F12	GN-61	GN-7169,7642,7380,7526,7609,7646,7221,7591		N12	GN-29	GN-7180,7373,7386,7644,6578,7284,7425,7408	
F14	GN-32	GN-7589,7157,7633,7527,7257,7315,7357,7272		O5	GN-31	GN-7171,7370,7461,7473,7483,6714,7480,7218	
G3	GN-3	GN-7624,7602,7541,7435,7574,7154,7310,7322		O7	GN-11	GN-7333,7381,7312,7521,7501,7547,7640,7500	
G5	GN-26	GN-7212,7329,7177,7360,6815,6724,6751,7423		O9	GN-65	GN-7203,7544,7299,6560,7217,7466,6353,6576	
G7	GN-4	GN-7418,7404,6386,7528,7342,7163,7612,7210		O11	GN-22	GN-7613,7354,6753,7156,7204,7286,6813,6737	
G9	GN-60	GN-7392,6778,6801,7239,7211,7393,7153,7313		P6	GN-18	GN-7479,7347,7196,7300,6569,7604,7590,7536	
G11	GN-30	GN-7556,7579,7616,7355,7627,7377,7246,7161		P8	GN-20	GN-7155,7206,7401,7610,6537,7214,6782,7335	
G13	GN-54	GN-6799,7605,7331,7512,7432,7294,7167,7411		P10	GN-48	GN-6781,7268,7514,7625,7490,7533,7379,6775	
H2	GN-24	GN-7266,7343,7407,7292,7468,7361,7585,7275		O7	GN-11	GN-7333,7381,7312,7521,7501,7547,7640,7500	
H4	GN-42	GN-7351,7422,7151,7317,6804,7494,7253,7405		O9	GN-65	GN-7203,7544,7299,6560,7217,7466,6353,6576	
H6	GN-39	GN-7288,7540,7427,7297,7499,7384,6741,7635		O11	GN-22	GN-7613,7354,6753,7156,7204,7286,6813,6737	
H8	GN-36	GN-7587,7207,7506,7588,7582,7532,7162,7592		P6	GN-18	GN-7479,7347,7196,7300,6569,7604,7590,7536	
H10	GN-47	GN-7464,7485,7481,7194,7493,6831,7382,7584		P8	GN-20	GN-7155,7206,7401,7610,6537,7214,6782,7335	
H12	GN-16	GN-7598,7572,7166,7577,7285,7289,7265,6742		P10	GN-48	GN-6781,7268,7514,7625,7490,7533,7379,6775	
H14	GN-40	GN-7442,7520,7173,7437,7578,7209,7245,7291		P10	GN-48	GN-6781,7268,7514,7625,7490,7533,7379,6775	
H2	GN-24	GN-7266,7343,7407,7292,7468,7361,7585,7275		O7	GN-11	GN-7333,7381,7312,7521,7501,7547,7640,7500	
H4	GN-42	GN-7351,7422,7151,7317,6804,7494,7253,7405		O9	GN-65	GN-7203,7544,7299,6560,7217,7466,6353,6576	
H6	GN-39	GN-7288,7540,7427,7297,7499,7384,6741,7635		O11	GN-22	GN-7613,7354,6753,7156,7204,7286,6813,6737	
H8	GN-36	GN-7587,7207,7506,7588,7582,7532,7162,7592		P6	GN-18	GN-7479,7347,7196,7300,6569,7604,7590,7536	
H10	GN-47	GN-7464,7485,7481,7194,7493,6831,7382,7584		P8	GN-20	GN-7155,7206,7401,7610,6537,7214,6782,7335	
H12	GN-16	GN-7598,7572,7166,7577,7285,7289,7265,6742		P10	GN-48	GN-6781,7268,7514,7625,7490,7533,7379,6775	
H14	GN-40	GN-7442,7520,7173,7437,7578,7209,7245,7291		P10	GN-48	GN-6781,7268,7514,7625,7490,7533,7379,6775	

Microsoft Word

File Edit View Insert Format Tools Table Window Help

Type a question for help

Edit / View Weld Status Records By Work Package

SGRH Edit / View Weld Record Data

Work Package: 1535H 1535H UNIT 2 RVH REMOVAL MODIFICATION

Go To Work Package

Go To Weld Record

Weld Card FW Number Weld Category Count Weld Status

Report Date

ASME Class ISI Class Duke Pipe Class ANII Weld Card Apprvl

Step 3 Weld(s) Completed

4/10/2004 10:14:30 AM

Comments

NDE

MT

PT

RT

UT

VT

Record: 14 1 1 of 2

Record: 14 1 29 of 127

Page Sec At Ln Col REC TRK EXT OVR

start Welcome - Lotu... SGT Welding DB SGRH Hngr-Wel... Microsoft Word 12:48 PM

Microsoft Word

File Edit View Insert Format Tools Table Window Help

Type a question for help

Edit / View Weld Status Records By Work Package

SGRH Edit / View Weld Record Data

Work Package: 1535H 1535H UNIT 2 RVH REMOVAL MODIFICATION

Go To Work Package

Go To Weld Record

Weld Card FW Number Weld Category Count Weld Status

Report Date

ASME Class ISI Class Duke Pipe Class ANII Weld Card Apprvl

Step 3 Weld(s) Completed

4/10/2004 10:14:30 AM

Comments

NDE

MT

PT

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VT

Record: 14 1 1 of 2

Record: 14 1 29 of 127

Page Sec At Ln Col REC TRK EXT OVR

start

Welcome - Lotu... SGT Welding DB SGRH Hngr-Wel... Microsoft Word

12:48 PM

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

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1.a Date 09/22/04

Sheet 1 of 2

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98616047
Repair Organization Job # _____

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

3b. NSM or MM # ON-23112 AM3 WP 23536H

4. Identification of System Reactor Coolant Class 1

5. (a) Applicable Construction Code ASME III NC 1989 Edition N/A Addenda, No Addenda /Code Class N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and cc and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Hanger/Support 2-57-1422-H6432	Duke Power Company	N/A	N/A	N/A	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B	Hanger/Support 2-57-1422-H6431	Duke Power Company	N/A	N/A	N/A	2003	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

NOTE: Supplemental sheets in form of lists, sketches, or drawings maybe 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.

7. Description of Work Replacement of RVLIS hangers 2-57-1422-H6431 and H6432.

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

Pressure _____ psig

Test Temp _____ °F

9. Remark: Hangers 2-57-1422-H6431 and H6432 are exempt from reporting per IWA-7400 (a)(4) of ASME Section XI due to line size < 1" however these hangers are welded to the service structure flange which is part of the NF boundary. This form covers the welds only.

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

SGRH SENIOR

Expiration Date N/A

Signed

[Signature]

ENGINEER

Date

09/22/04

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NC and employed by HSBCT have inspected the components described in this Owner's Report during the period 8-18-04 to 8-18-04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions

NC853, N, I

National Board, State, Providence and Endorsements

Date

9-29-04

SGRH Hngr-Welds Status

File Window Help

Type a question for help

Edit / View Weld Status Records By Work Package

SGRH Edit / View Weld Record Data

Work Package: 3536H3536H INSTALL UNIT 2 RVH TOP HEAD PIPING

Go To Work Package

ANII WP Approval: ☐ Continue To Display: ☒

Go To Weld Record

Weld Card	FW Number	Weld Category	Count	Weld Status	Report Date
ASME Class	ISI Class	Duke Pipe Class	ANII Weld Card Approval		
NCR-02-057-01	FW-12C1	SB Weld	1	Weld(s) Completed	4/20/2004 12:28:01 PM
Comments					
JRT visio					
NDE					
Record: 14 11 of 127					

Record: 14 1 of 24

Record: 114 114 of 127

start

Welcome - Lotu...SGT Welding DBSGRH Hngr-Wel...Document2 - Mi...

12:59 PM

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

		Work Order Number 98745816		Sheet 1 of 2			
1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006		2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672		Unit ONS - 2			
				Date 11/15/2005			
3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006		Type Code Symbol Stamp Not Applicable					
		Authorization Number Not Applicable					
		Expiration Date Not Applicable					
4. Identification of System, ASME Class High Pressure Injection, ASME Class 2							
5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>							
6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Pipe (1)	DPC	None	None	None	2005	Installed	NO
Support 2-51B-436J-DE-012 (2)	DPC	None	None	None	2005	Corrected	NO
7. Description of Work The piping inlet flange was pitted and was replaced prior to the flange develop a leak. To aid in the replacement a short section of pipe was also replaced and the u-bolts that hold to pipe to a hanger were replaced.							
8. Test Conducted <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input type="checkbox"/> Other _____ Pressure _____ PSI Test Temperature _____ °F							

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98745816

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① The following items were replaced either for ease of maintenance or prevent a future leak: 2 inch stainless steel pipe, SA 312 F304, stock code 149537, UTC # 1028759; 2 inch BEWN pipe flange, SA 182 F304, stock code 87821, UTC # 1084048; 2 inch stainless steel full coupling, SA 182 F304, stock code 67999, UTC # 1081617; 5/8 inch threaded rod, SA 193 B7, stock code 297412, UTC # 1083362; and 2 inch heavy hex nuts, SA 194 Gr. 2H, stock code 293556, UTC # 1074343.

② The following parts were replaced on pipe support 2-51B-436J-DE-012: 3/8 inch bent bolt with nuts; Stock Code 35313, UTC # 1074993 (U-bolt 3/8" dia. x 2" NPS)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Basil W. Cunningham Senior Engineer Date 11/15/2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-3-05 to 12-12-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions

NC1444/NABCL

National Board, State, Province, and Endorsements

Date 12-12-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

				Work Order Number <div style="text-align: center;">98503437</div>		Sheet <div style="text-align: center;">1 of 2</div>																																																																	
1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006			2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672			Unit ONS - 2 Date 11/16/2005																																																																	
3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006				Type Code Symbol Stamp Not Applicable																																																																			
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				Expiration Date Not Applicable																																																																			
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6. Identification of Components <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width:12.5%;">Name of Component</th> <th style="width:12.5%;">Name of Manufacturer</th> <th style="width:12.5%;">Manufacturer Serial Number</th> <th style="width:12.5%;">National Board No.</th> <th style="width:12.5%;">Other Identification</th> <th style="width:12.5%;">Year Built</th> <th style="width:12.5%;">Corrected, Removed, or Installed</th> <th style="width:12.5%;">ASME Code Stamped (Yes / No)</th> </tr> </thead> <tbody> <tr> <td>Up-stream Orifice Assembly</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>Removed</td> <td>NO</td> </tr> <tr> <td>Up-stream Orifice Assembly (1)</td> <td>FlowServe</td> <td>UNK</td> <td>UNK</td> <td>PN: CPM-9428-E479-7</td> <td>UNK</td> <td>Installed</td> <td>NO</td> </tr> <tr> <td>Down-stream Orifice Assembly</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>Removed</td> <td>NO</td> </tr> <tr> <td>Down Stream Orifice Assembly (2)</td> <td>FlowServe</td> <td>UNK</td> <td>UNK</td> <td>PN: CPM-9429-E479-7</td> <td>UNK</td> <td>Installed</td> <td>NO</td> </tr> <tr> <td>Pipe (3)</td> <td>DPC</td> <td>None</td> <td>None</td> <td>None</td> <td>2005</td> <td>Installed</td> <td>NO</td> </tr> <tr> <td>Hanger 2-51A-435H-JC-1802 (4)</td> <td>DPC</td> <td>None</td> <td>None</td> <td>None</td> <td>2005</td> <td>Corrected</td> <td>NO</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>								Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)	Up-stream Orifice Assembly	UNK	UNK	UNK	UNK	UNK	Removed	NO	Up-stream Orifice Assembly (1)	FlowServe	UNK	UNK	PN: CPM-9428-E479-7	UNK	Installed	NO	Down-stream Orifice Assembly	UNK	UNK	UNK	UNK	UNK	Removed	NO	Down Stream Orifice Assembly (2)	FlowServe	UNK	UNK	PN: CPM-9429-E479-7	UNK	Installed	NO	Pipe (3)	DPC	None	None	None	2005	Installed	NO	Hanger 2-51A-435H-JC-1802 (4)	DPC	None	None	None	2005	Corrected	NO								
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)																																																																
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Hanger 2-51A-435H-JC-1802 (4)	DPC	None	None	None	2005	Corrected	NO																																																																
7. Description of Work The orifice assemblies are made with a series of stacked plates. Each refueling outage the orifices assemblies are RT to ensure the inside parts have not started to wear out. When wear is detected plans are made to replace at the next available outage. During last RFO wear was noticed so it was decided to replace orifice assemblies. Both orifices and a section of pipe was removed to allow replacement.																																																																							
8. Test Conducted <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input type="checkbox"/> Other _____ </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> Pressure _____ PSI Test Temperature _____ °F </div>																																																																							

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98503437

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

- ① Up-stream socket weld orifice assembly from Flowserve; CPM-9428-E479-7; stock code 439460, UTC # 1062050; SA 479 TP316L
- ② Down-stream socket weld orifice assembly from Flowserve; CPM-9429-E479-7, stock code 439461, UTC # 1055596
- ③ 1.5 inch SS pipe, SA 376 TP304; stock code 149472, UTC # 1077294; Section III Subsection NC.
- ④ Stainless steel pipe attachments replaced as part of the pipe change out. Stainless steel flat bar, 1/4 inch thick x 2 inch wide, A 240 Grade 304, stock code 21700, UTC # 1042632
- ⑤
- ⑥
- ⑦
- ⑧
- ⑨
- ⑩

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Basil W. Cery A. Senior Engineer Date 11/16/2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 6-15-05 to 11-30-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC444/NIBCL
National Board, State, Province, and Endorsements

Date 11-30-05

As required by the provisions of the ASME Code Section XI

8. Test Conducted ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other _____
Pressure PSI Test Temperature °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98738640-02

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

SN - 3431

① Alloy 690 welded plug. (Framatome P/N 5052976-001, Stock Code 590067) ASME designation N06690 ASME SB-166

SN - 3434

② Alloy 690 welded plug. (Framatome P/N 5052976-001, Stock Code 590067) ASME designation N06690 ASME SB-166

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Jeff Silbreath, Steam Generator Engineer Date 11-12-05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-26-05 to 11-28-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC 444 NIPBC
National Board, State, Province, and Endorsements

Date 11-28-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

		Work Order Number 98758028		Sheet 1 of 2			
1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006		2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672		Unit ONS - 2			
				Date 11/14/2005			
3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006		Type Code Symbol Stamp Not Applicable					
		Authorization Number Not Applicable					
		Expiration Date Not Applicable					
4. Identification of System, ASME Class Low Pressure Service Water, ASME Class 2							
5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>							
6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Flanged LPSW headers for 2B2 RCP Motor Air Cooler (1)	DPC	none	none	none	1970	Corrected	NO
7. Description of Work The flanges on the LPSW hearer were one hole and the flanges on the upper air cooler were two hole so one set of flanges had to be rotated so the flanges could be bolted together. Since it would be easier to pressure test the header pipe and welds it was decided to rotate the header flanges.							
8. Test Conducted X Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input type="checkbox"/> Other _____ Pressure <u>115</u> PSI Test Temperature <u>68.5</u> °F							

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98758028

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replaced two 3 inch carbon steel flanges with stainless steel flanges. Material SA 182 Grade F304, Stock Code 87823, UTC #s 842434 & 1007241.

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Basil W. Cunningham Senior Engineer Date 11/14/2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-5-05 to 11-28-05, 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 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.

Basil W. Cunningham
Inspector's Signature

Commissions NC 1444 NIBAC
National Board, State, Province, and Endorsements

Date 11-28-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; padding: 2px;">Work Order Number 98554046-03</td> <td style="width: 40%; padding: 2px;">Sheet 1 of 2</td> </tr> </table>				Work Order Number 98554046-03	Sheet 1 of 2																																																																														
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1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Unit ONS - 2</td> </tr> <tr> <td style="padding: 2px;">Date 11/10/2005</td> </tr> </table>		Unit ONS - 2	Date 11/10/2005																																																																														
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4. Identification of System, ASME Class High Pressure Injection, ASME Class 2																																																																																			
5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>																																																																																			
6. Identification of Components <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;">Name of Component</th> <th style="width: 15%;">Name of Manufacturer</th> <th style="width: 15%;">Manufacturer Serial Number</th> <th style="width: 15%;">National Board No.</th> <th style="width: 15%;">Other Identification</th> <th style="width: 10%;">Year Built</th> <th style="width: 15%;">Corrected, Removed, or Installed</th> <th style="width: 10%;">ASME Code Stamped (Yes / No)</th> </tr> </thead> <tbody> <tr> <td>Inlet Pipe Flange for Valve 2HP-71</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>Removed</td> <td>NO</td> </tr> <tr> <td>Inlet Pipe Flange for Valve 2HP-71 (1)</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>2005</td> <td>Installed</td> <td>NO</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)	Inlet Pipe Flange for Valve 2HP-71	UNK	UNK	UNK	UNK	UNK	Removed	NO	Inlet Pipe Flange for Valve 2HP-71 (1)	UNK	UNK	UNK	UNK	2005	Installed	NO																																																								
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Inlet Pipe Flange for Valve 2HP-71 (1)	UNK	UNK	UNK	UNK	2005	Installed	NO																																																																												
7. Description of Work Flange was replaced because the original flange had developed pits overs its 30 year life.																																																																																			
8. Test Conducted <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Hydrostatic</td> <td><input type="checkbox"/> Pneumatic</td> <td><input checked="" type="checkbox"/> Nominal Operating Pressure</td> <td><input type="checkbox"/> Exempt</td> <td><input type="checkbox"/> Other _____</td> </tr> <tr> <td colspan="2">Pressure _____ PSI</td> <td colspan="3">Test Temperature _____ °F</td> </tr> </table>				<input type="checkbox"/> Hydrostatic	<input type="checkbox"/> Pneumatic	<input checked="" type="checkbox"/> Nominal Operating Pressure	<input type="checkbox"/> Exempt	<input type="checkbox"/> Other _____	Pressure _____ PSI		Test Temperature _____ °F																																																																								
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Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98554046-03

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① 3inch stainless steel WNRF flange; SA 182 Grade F304, UTC # 917811, S/C # 87809

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Basil W. Camp Senior Engineer Date 11/10/2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5-18-05 to 11-28-05, 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 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.

Basil W. Camp
Inspector's Signature

Commissions NC1444 NABOC

National Board, State, Province, and Endorsements

Date 11-28-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

		Work Order Number 98754948	Sheet 1 of 2																																																																																
1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2 <hr/> Date 11/15/2005																																																																																	
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4. Identification of System, ASME Class <div style="text-align: center;">Feedwater System, ASME Class 2</div>																																																																																			
5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>																																																																																			
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Pipe (1)	DPC	None	None	None	2005	Installed	NO																																																																												
7. Description of Work The original pipe assembly was removed due to a leak. The assembly was sent to the Applied Science Center for cause valuation. The cause for the leak was determined to be due to poor quality weld. There was lack of fusion in the root pass and porosity through out the weld.																																																																																			
8. Test Conducted <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input type="checkbox"/> Other _____ </div> <div> Pressure _____ PSI Test Temperature _____ °F </div> </div>																																																																																			

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98754948

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① The following parts were replaced by this work: 1 inch Pipe Cap, 3000 #, SA 105, stock code 48299, UTC # 1049171, Section III Subsection NC material; 1 inch Half Coupling, 3000#, SA 105, stock code 68455, UTC # 1066185, Section III Subsection NC material; and 1 inch Pipe, Sch. 80, SA 106, stock code 149370, UTC # 1062927, Section III Subsection NC material.

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Basil W. Cunningham Senior Engineer Date 11/15/2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-25-05 to 11-28-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions

NC1444 NIBSC
National Board, State, Province, and Endorsements

Date

11-28-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98727683-38	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition,	<u>No</u> Addenda,	<u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition,	<u>2000</u> Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Rear pivot mount for Fig. 200	Grinnell	N/A	N/A	N/A	N/A	Removed	N/A
Rear Brkt for Fig. 200	Grinnell	N/A	N/A	N/A	N/A	Removed	N/A
Fig. 201 Extension Piece	Anvil	N/A	N/A	UTC 1085258	N/A	Installed	N/A
Rear Brkt for Fig. 200	Anvil	N/A	N/A	UTC 1081978	N/A	Installed	N/A
Rear Brkt for Fig. 200	Grinnell	N/A	N/A	N/A	N/A	Removed	N/A
Rear Brkt. for Fig 200	Anvil	N/A	N/A	UTC 1068739	N/A	Installed	N/A

7. Description of Work Revised RCPM snubber support 2-50-0-1066A-RCPM-2B2-SS1 per OE200419

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98727683-38

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Paul M. Allen, Sr. Eng. Date 11/16/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-27-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions

NC 1444 NIABCL

National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98727683-40	Sheet 1 of 2
-----------------------------------------	------------------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Misc. Plates	N/A	N/A	N/A	N/A	N/A	Removed	N/A
Rear Brkt for Fig. 200	Anvil	N/A	N/A	UTC 1068739	N/A	Installed	N/A
1" plate (item #18)	N/A	N/A	N/A	UTC 1072774	N/A	Installed	N/A
1 1/2" plate (item #17)	N/A	N/A	N/A	UTC 1071258	N/A	Installed	N/A

7. Description of Work Revised RCPM snubber support 2-50-0-1066A-RCPM-2B2-SS3 per OE200419

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98727683-40

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed AmM Vth, Sr. Eng. Date 11/16/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-19-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]

Inspector's Signature

Commissions NC 1444 NIABC

National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98727683-39	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition,	<u>No</u> Addenda,	<u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition,	<u>2000</u> Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Plates & pipe	N/A	N/A	N/A	N/A	N/A	Removed	N/A
Rear Brkt for Fig. 200	Grinnell	N/A	N/A	N/A	N/A	Removed	N/A
Rear Brkt for Fig. 200	Anvil	N/A	N/A	UTC 1068739	N/A	Installed	N/A
2" plate machined to 1 1/2"	N/A	N/A	N/A	UTC 103 6576	N/A	Installed	N/A

7. Description of Work Revised RCPM snubber support 2-50-0-1066A-RCPM-2B2-SS2 per OE200419

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98727683-39

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *Am M. W. Sr. Eng.* Date 11/16/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-19-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions

NC1444NIABC

National Board, State, Province, and Endorsements

Date

11-21-05

As required by the provisions of the ASME Code Section XI

As required by the provisions of the ASME Code Section XI					Work Order Number <div style="border: 1px solid black; padding: 2px; display: inline-block;">98711484</div>	Sheet <div style="border: 1px solid black; padding: 2px; display: inline-block;">1 of 2</div>																																																																																								
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4. Identification of System, ASME Class <div style="text-align: center;">Reactor Coolant, ASME Class 1</div>																																																																																														
5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>																																																																																														
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2RCIV-163	Flowserve	49BAH	1412	UTC-1075671	2004	Installed	YES																																																																																							
7. Description of Work OE200154 Replaced Valve and tubing fitting.																																																																																														
8. Test Conducted <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <i>functional visual</i> </div> <div> Pressure _____ PSI Test Temperature _____ °F </div> </div>																																																																																														

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98711484

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replaced leak injected valve.

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable


Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed John Bradshaw, TECHNICAL SPECIALIST II Date 11/16/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3-22-05 to 11-18-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions NCC444 NIABC

National Board, State, Province, and Endorsements

Date 11/18/05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98759439	Sheet 1 of 2
-------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2
		Date 11/15/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class
Low Pressure Service Water, ASME Class 2

5.
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Pipe (1)	DPC	None	None	None	2005	Installed	NO

7. Description of Work
 During installation of the Low Pressure Service Water header it was determined that one flange on the air cooler was not parallel so the flanges did not mate together. To correct this problem the flange on the header was cut out and adjusted by adding a section of pipe.

8. Test Conducted
☒ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ Other _____
 Pressure 115 PSI Test Temperature 69 °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98759439

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① The following part was replaced: 3 inch carbon steel schedule 40 pipe, SA 106 Grade B, stock code 149334, UTC # 1074681

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Basil W. Campbell Senior Engineer Date 11/16/2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-12-05 to 11-16-05, 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 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.

Basil W. Campbell
Inspector's Signature

Commissions

NC 1444 NIABC

National Board, State, Province, and Endorsements

Date 11-16-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

		Work Order Number 98727280		Sheet 1 of 2			
1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006		2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672		Unit ONS - 0			
				Date 6/6/2005			
3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006		Type Code Symbol Stamp Not Applicable					
		Authorization Number Not Applicable					
		Expiration Date Not Applicable					
4. Identification of System, ASME Class Condenser Circulating Water, ASME Class 3							
5. (a) Applicable Construction Code: <u>ASME Section III</u> 19 <u>77</u> Edition, <u>1978</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>							
6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Standby Shutdown Facility (SSF) HVAC Service Water Pump # 1	Ingersol-Rand	0979-173	UNK	Model 1 x 10 AN	1979	Corrected	NO
7. Description of Work Work on this pump was performed to repair a packing leak. During this work technicians noted the bolting associated with the packing gland was corroded. The bolting was replaced as a good maintenance practice and the pump was repacked.							
8. Test Conducted <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input type="checkbox"/> Other _____ Pressure _____ PSI Test Temperature _____ °F							

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98727280

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Bolting for the packing gland on the SSF HVAC Service Water Pump # 1 was replaced. This included 2 packing gland studs (ASME SA 193 GR B7, Stock Code 205134, UTC 967055), 2 packing gland nuts (ASME SA194 GR 2H, stock code 293556, UTC 1074343), 2 Gland Follower Bolts (ASME SA193 GR B7, Stock Code 176981, UTC 1011645), 2 Gland Follower Nuts (ASTM A194 GR 2H, Stock Code 131419, UTC 1073090)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization Number Not Applicable Expiration Date Not Applicable

Signed Ronnie C. Henderson, Sr. Tech. Specialist Date 06/23/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 6-6-05 to 10-20-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions NCL 444 NIABC

National Board, State, Province, and Endorsements

Date 10-20-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> Work Order Number <div style="text-align: center;">98705438</div> </td> <td style="width: 50%; padding: 5px;"> Sheet <div style="text-align: center;">1 of 2</div> </td> </tr> </table>				Work Order Number <div style="text-align: center;">98705438</div>	Sheet <div style="text-align: center;">1 of 2</div>																		
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4. Identification of System, ASME Class Liquid Waste Disposal System, ASME Class 2																							
5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>																							
6. Identification of Components																							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)																
2LWD-99	Velan	UNK	UNK	None	UNK	Removed	NO																
2LWD-103	Velan	UNK	UNK	None	UNK	Removed	NO																
2LWD-99	Flowserve	67BAQ	1459	UTC-1078379	2005	Installed	YES																
1LWD-103	Flowserve	65BAQ	1457	UTC-1078377	2005	Installed	YES																
① Piping	DPCo	None	None	None	Unk	Corrected	NO																
Piping	DPCo	None	None	None	2005	Installed	YES																
7. Description of Work NSM-ON-23106, Piping and valves downstream of Penetration 40 was replaced to upgrade from Class 3 to Class 2. In addition, a tee was added to allow tying into new HPI piping.																							
8. Test Conducted <table style="width:100%;"> <tr> <td><input type="checkbox"/> Hydrostatic</td> <td><input type="checkbox"/> Pneumatic</td> <td><input type="checkbox"/> Nominal Operating Pressure</td> <td><input type="checkbox"/> Exempt</td> <td><input checked="" type="checkbox"/> Other</td> <td colspan="3"><input checked="" type="checkbox"/> Performance test</td> </tr> <tr> <td colspan="2">Pressure <u>60</u> PSI</td> <td colspan="3">Test Temperature <u>N.O.T.</u> °F</td> <td colspan="3"> </td> </tr> </table>								<input type="checkbox"/> Hydrostatic	<input type="checkbox"/> Pneumatic	<input type="checkbox"/> Nominal Operating Pressure	<input type="checkbox"/> Exempt	<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/> Performance test			Pressure <u>60</u> PSI		Test Temperature <u>N.O.T.</u> °F					
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Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98705438 98656161 MB	Sheet 2 of 2
------------------------------------------------------------	------------------------

9. Remarks (Applicable Manufacturer's Data Reports to be attached)	
1-17-06	
① Portion of LWD piping was removed with valves to upgrade piping to Class 2.	
② New LWD/HPI piping to CIVs 2LWD-103 (2LWD-99 open) and 2HP-973/974 tested at containment design pressure.	
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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed David B Hunt, Lead Engineer Date 11-17-05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5-17-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NL 1444 NIBOL
Inspector's Signature National Board, State, Province, and Endorsements
Date 11-22-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

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4. Identification of System, ASME Class <div style="text-align: center;">High Pressure Injection, ASME Class 2</div>																																																																																										
5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>																																																																																										
6. Identification of Components <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 12.5%;">Name of Component</th> <th style="width: 12.5%;">Name of Manufacturer</th> <th style="width: 12.5%;">Manufacturer Serial Number</th> <th style="width: 12.5%;">National Board No.</th> <th style="width: 12.5%;">Other Identification</th> <th style="width: 12.5%;">Year Built</th> <th style="width: 12.5%;">Corrected, Removed, or Installed</th> <th style="width: 12.5%;">ASME Code Stamped (Yes / No)</th> </tr> </thead> <tbody> <tr> <td>HPI piping</td> <td>DPCo</td> <td>None</td> <td>None</td> <td>None</td> <td>Unk</td> <td>Corrected</td> <td>NO</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)	HPI piping	DPCo	None	None	None	Unk	Corrected	NO																																																																								
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)																																																																																			
HPI piping	DPCo	None	None	None	Unk	Corrected	NO																																																																																			
7. Description of Work NSM-23106 - Portion of piping connected to LDST was re-rated from 100 psig to 150 psig. The system operating pressure was not changed and no components were replaced. Existing components were evaluated for acceptability.																																																																																										
8. Test Conducted <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input checked="" type="checkbox"/> Exempt <input type="checkbox"/> Other _____ </div> <div> Pressure _____ PSI Test Temperature _____ °F </div> </div>																																																																																										

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98705438

98656161-TRB

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

1-17-06

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization Number Not Applicable Expiration Date Not Applicable

Signed David B. Hunt LEAD ENGINEER Date 11-14-05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5-17-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC1444 NIBSC
National Board, State, Province, and Endorsements

Date 11-22-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

				Work Order Number 98705438		Sheet 1 of 3	
1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006			2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672			Unit ONS - 2	
					Date 11/2/2005		
3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006				Type Code Symbol Stamp Not Applicable			
				Authorization Number Not Applicable			
				Expiration Date Not Applicable			
4. Identification of System, ASME Class High Pressure Injection, ASME Class 2							
5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>							
6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2HP-939	Velan	~ 052011	None	UTC-1078944	2005	Installed	YES
2HP-940	Velan	~ 052012	None	UTC-1080398	2005	Installed	YES
2HP-969	Flowserve	~ 59BAQ	1451	UTC-1077003	2005	Installed	YES
2HP-970	Flowserve	~ 61BAQ	1453	UTC-1078373	2005	Installed	YES
2HP-973	Flowserve	~ 41BAG	1467	UTC-1076040	2005	Installed	YES
2HP-974	Flowserve	~ 44BAG	1406	UTC-1074811	2004	Installed	YES
2HP-981	Flowserve	~ 70BAQ	1462	UTC-1078382	2005	Installed	YES
2HP-982	Flowserve	~ 64BAQ	1456	UTC-1078376	2005	Installed	YES
Piping Material	DPCo	None	None	None	2005	Installed	NO
7. Description of Work NSM-23106 AM1 and work order 98705438 installed two MOV's , 4 manual valves, and two check valves with associated piping and fittings on the HPI system. Installed twelve (12) new supports for new piping and components. ① Test boundary							
8. Test Conducted <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input type="checkbox"/> Other _____ Pressure <u>66 min</u> PSI Test Temperature <u>N.O.T.</u> °F							

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

					Work Order Number 98705438		Sheet 2 of 3	
1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006			2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672			Unit ONS - 2		
						Date 11/2/2005		
3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006					Type Code Symbol Stamp Not Applicable			
					Authorization Number Not Applicable			
					Expiration Date Not Applicable			
4. Identification of System, ASME Class High Pressure System, ASME Class 2								
5.								
(a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case								
(b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda.								
(c) Applicable Section XI Code Case(s) <u>None</u>								
6. Identification of Components								
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)	
2-51B-1435B-H5560 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5561 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5562 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5563 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5564 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5565 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5566 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5567 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5568 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5569 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5570 Support	DPCo	None	None	None	2005	Installed	NO	
2-51B-1435B-H5571 Support	DPCo	None	None	None	2005	Installed	NO	

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98705438

Sheet

3 of 3

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① The pressure testing covered by this NIS-2 covers new HPI piping up to 2HP-981 and 2HP-982. The balance of the new HPI piping is part of the containment boundary and was testing with the LWD piping. NIS-2 included with this WO package.

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed David B. Hunt Lead Engineer Date 11-17-05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5-17-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC 1444 NIBOL
National Board, State, Province, and Endorsements

Date 11-22-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98705438	Sheet 1 of 2
-------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2 Date 10/12/2005
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Low Pressure Injection, ASME Class 2

5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2LP-193	Flowserve	68BAQ	1460	UTC1078380	2005	Installed	YES
2LP-194	Flowserve	59BAK	1438	UTC1074854	2004	Installed	YES
Piping	DPCo	None	None	None	2005	Installed	NO
Support 2-51B-1435B-H5572	DPCo	None	None	None	2005	Installed	NO
Support 2-51B-1435B-H5573	DPCo	None	None	None	2005	Installed	NO
Support 2-51B-1435B-H5574	DPCo	None	None	None	2005	Installed	NO
Support 2-51B-1435B-H5575	DPCo	None	None	None	2005	Installed	NO
Support 2-51B-1435B-H5576	DPCo	None	None	None	2005	Installed	NO

7. Description of Work NSM-23106AM1 and work order 98705438 installed two new manual valves in the LPI system. Associated piping and fittings were also installed. Installed five (5) new support restraints on new piping.

8. Test Conducted <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input type="checkbox"/> Other _____ Pressure <u>83.4</u> PSI Test Temperature <u>N.O.T</u> °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98705430
98656161-23

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

1-17-05

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization Number Not Applicable Expiration Date Not Applicable

Signed David B. F. and LEAD ENGINEER Date 11-21-05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5-17-05 to 11-21-05 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NORTH CAROLINA
Inspector's Signature National Board, State, Province, and Endorsements
Date 11-22-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98693392-01	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class High Pressure Injection, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 2-51-1478A-H6147	Lisega	61296/038	N/A	N/A	N/A	Removed	N/A
Snubber 2-51-1478A-H6147	Lisega	61587/012	N/A	UTC 1064697	UNK	Installed	N/A

7. Description of Work Replaced Lisega snubber containing AK350 fluid with one containing AP280.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98693392-01

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Paul M. M.R. Sr. Eng. Date 11/16/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions

NC1444 NIBSC

National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98693392-04	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit Date 11/16/2005
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Main Steam, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>	

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 2-01A-0-1481B-H8B	Lisega	614150/001	N/A	N/A	N/A	Removed	N/A
Snubber 2-01A-0-1481B-H8B	Lisega	615853/089	N/A	UTC 1085722	UNK	Installed	N/A

7. Description of Work Replaced Lisega snubber containing AK350 fluid with one containing AP280.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98693392-04

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Paul M. L., Sr. Eng.
Owner or Owner's Designee, Title

Date 11/16/05

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC 1444 NIBOL
National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
98720644-01	1 of 2

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Main Steam, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>	

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
New Miller cylinder on snubber 2-01A-0-1401B-R14	Miller	00051	N/A	N/A	UNK	Removed	N/A
Hydraulic snubber upgrade kit	Anvil	36133	N/A	UTC 1081181	UNK	Installed	N/A

7. Description of Work Replace the existing New Miller cylinder with a Anvil Config. A

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-01

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *Am M. H. P., Sr. Eng.* Date *11/16/05*
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of *NORTH CAROLINA* and employed by *HSB CT* of *Hartford, Connecticut* have inspected the components described in this Owner's Report during the period *11-21-05* to *11-21-05*, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions *NC1444 NABCB*

National Board, State, Province, and Endorsements

Date *11-21-05*

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98720644-02	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2 Date 11/16/2005
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Main Steam, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
New Miller cylinder on snubber 2-01A-0-1481A-H8A	Grinnell	18613	N/A	N/A	UNK	Removed	N/A
Hydraulic snubber upgrade kit	Anvil	35553	N/A	UTC 1048578	UNK	Installed	N/A

7. Description of Work Replace the existing New Miller cylinder with a Anvil Config. A

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-02

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *Paul M. Goh*, SE, Eng.
Owner or Owner's Designee, Title

Date 11/16/15

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 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.

Paul M. Goh
Inspector's Signature

Commissions

NC 1444 NIAAC

National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98720644-03	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Main Steam, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>	

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
New Miller cylinder on snubber 2-01A-0-1481B-H2A	Grinnell	30996	N/A	N/A	UNK	Removed	N/A
Hydraulic snubber upgrade kit	Anvil	35594	N/A	UTC 1050269	UNK	Installed	N/A

7. Description of Work Replace the existing New Miller cylinder with a Anvil Config. A

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-03

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp

Not Applicable

Certificate of Authorization Number

Not Applicable

Expiration Date

Not Applicable

Signed

Am M. M. Sr. Eng.
Owner or Owner's Designee, Title

Date

11/16/05

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions

NC1444 NIBBL

National Board, State, Province, and Endorsements

Date

11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
98720644-04	1 of 2

1. Owner	2. Plant	Unit 2
Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class
Main Feedwater, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
New Miller cylinder on snubber 03-0-1480B-H6B	Grinnell	18607	N/A	N/A	UNK	Removed	N/A
Hydraulic snubber upgrade kit	Anvil	36135	N/A	UTC 1081152	UNK	Installed	N/A

7. Description of Work
Replace the existing New Miller cylinder with a Anvil Config. A

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-04

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *Amelia A. Sc. Eng.* Date 11/16/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC1444 NIABSL
National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98720644-06	Sheet 1 of 2
-----------------------------------------	------------------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition,	<u>No</u> Addenda,	<u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition,	<u>2000</u> Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
New Miller cylinder on snubber 2-50-0-1481A-H7	Grinnell	18592	N/A	N/A	UNK	Removed	N/A
Hydraulic snubber upgrade kit	Anvil	36040	N/A	UTC 1077063	UNK	Installed	N/A

7. Description of Work Replace the existing New Miller cylinder with a Anvil Config. A

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-06

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed

Amal K. Sr. Eng.
Owner or Owner's Designee, Title

Date

11/16/05

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions

NC1444 NIBOL

National Board, State, Province, and Endorsements

Date

11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98720644-09	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Spent Fuel Cooling, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
New Miller cylinder on snubber 56-0-1478A-H10	Grinnell	18589	N/A	N/A	UNK	Removed	N/A
Hydraulic snubber upgrade kit	Anvil	36126	N/A	UTC 1081141	UNK	Installed	N/A

7. Description of Work Replace the existing New Miller cylinder with a Anvil Config. A

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-09

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Amold H. K. Sr. Perry Date 11/16/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC1444 NIBOL
National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98720644-18	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2 Date 11/16/2005
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 2-50-0-1480A-H9	Grinnell	N/A	N/A	N/A	UNK	Removed	N/A
Snubber 2-50-0-1480A-H9	Anvil	35409	N/A	UTC 1058400	UNK	Installed	N/A

7. Description of Work Replace the existing Grinnell snubber with a Config. A Anvil snubber

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-18

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *David M. White, Sr. Eng.* Date 11/16/05
Owner or Owner's Designee Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 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.

David M. White
Inspector's Signature

Commissions NC1444 NIBBL
National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98720644-19	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition,	<u>No</u> Addenda,	<u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition,	<u>2000</u> Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 50-0-1479A-H2A	Grinnell	N/A	N/A	N/A	UNK	Removed	N/A
Snubber 50-0-1479A-H2A	Anvil	34149	N/A	UTC 1082290	UNK	Installed	N/A

7. Description of Work Replace the existing Grinnell snubber with a Config. A Anvil snubber

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-19

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Paul H. H. Sr. Eng.

Owner or Owner's Designee, Title

Date 11/16/05

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC 1444 NIBSL

National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

		Work Order Number 98720644-20	Sheet 1 of 2				
1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006		2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672		Unit 2 Date 11/16/2005			
3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006		Type Code Symbol Stamp Not Applicable Authorization Number Not Applicable Expiration Date Not Applicable					
4. Identification of System, ASME Class Reactor Coolant, ASME Class 1							
5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>							
6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 50-0-1479A-H3A	Grinnell	N/A	N/A	N/A	UNK	Removed	N/A
Snubber 50-0-1479A-H3A	Anvil	36146	N/A	UTC 1081813	UNK	Installed	N/A
Snubber Rod Eye	Anvil	N/A	N/A	UTC 1035572	UNK	Installed	N/A
7. Description of Work Replace the existing Grinnell snubber with a Config. A Anvil snubber							
8. Test Conducted <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u> Pressure _____ PSI Test Temperature _____ °F							

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-20

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Amell Webb, Sr. Eng. Date 11/16/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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.

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[Signature]
Inspector's Signature

Commissions NC 1444 NIBSL
National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-21

Sheet

1 of 2

1. Owner

Duke Power Company
526 South Church Street
Charlotte, NC 28201-1006

2. Plant

Oconee Nuclear Station
7800 Rochester Hwy
Seneca, SC 29672

Unit 2

Date

11/16/2005

3. Work Performed by

Duke Power Company
526 South Church Street
Charlotte, NC 28201-1006

Type Code Symbol Stamp

Not Applicable

Authorization Number

Not Applicable

Expiration Date

Not Applicable

4. Identification of System, ASME Class

High Pressure Injection - High Pressure Portion, ASME Class 1

5.

- (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case
(b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.
(c) Applicable Section XI Code Case(s) None

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 51A-0-1479A-H2A	Grinnell	4846	N/A	N/A	UNK	Removed	N/A
Snubber 51A-0-1479A-H2A	Anvil	36148	N/A	UTC 1082289	UNK	Installed	N/A

7. Description of Work

Replace the existing Grinnell snubber with a Config. A Anvil snubber

8. Test Conducted



Hydrostatic



Pneumatic



Nominal Operating Pressure



Exempt



Other

Visual

Pressure _____ PSI

Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-21

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp

Not Applicable

Certificate of Authorization Number

Not Applicable

Expiration Date

Not Applicable

Signed

Amell White, Sr. Eng.
Owner or Owner's Designee, Title

Date

11/16/05

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions

NC1444 NIABCL

National Board, State, Province, and Endorsements

Date

11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98720644-22	Sheet 1 of 2
-----------------------------------------	------------------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Low Pressure Injection - High Pressure Portion, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>	

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 53A-0-1479A-H1C	Grinnell	5866	N/A	N/A	UNK	Removed	N/A
Snubber 53A-0-1479A-H1C	Anvil	36150	N/A	UTC 1082291	UNK	Installed	N/A
Snubber Rod Eye	Anvil	N/A	N/A	UTC 1053974	UNK	Installed	N/A

7. Description of Work Replace the existing Grinnell snubber with a Config. A Anvil snubber

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-22

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *Amel N. H. Sr. Eng.* Date 11/16/15
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions

NC1444 NIBBL

National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
98720644-23	1 of 2

1. Owner	2. Plant	Unit 2
Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Bldg. Spray - Low Pressure Portion, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>	

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 54B-0-1477-H9A	Grinnell	N/A	N/A	N/A	UNK	Removed	N/A
Snubber 54B-0-1477-H9A	Anvil	35543	N/A	UTC 1051564	UNK	Installed	N/A

7. Description of Work Replace the existing Grinnell snubber with a Config. A Anvil snubber

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-23

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Paul M. H. S. R. Eng. Date 11/16/05

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC1444 NIBOC

National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98720644-24	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Bldg. Spray - Low Pressure Portion, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>	

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 54B-0-1477-H9B	Grinnell	5069	N/A	N/A	UNK	Removed	N/A
Snubber 54B-0-1477-H9B	Anvil	35507	N/A	UTC 1051558	UNK	Installed	N/A

7. Description of Work Replace the existing Grinnell snubber with a Config. A Anvil snubber

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-24

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Willie, Sr. Eng.
Owner or Owner's Designee, Title

Date 11/16/15

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC1444 NIBBC
National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98720644-25	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Spent Fuel Cooling, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition,	<u>No</u> Addenda,	<u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition,	<u>2000</u> Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 56-0-1478A-H9	Grinnell	4758	N/A	N/A	UNK	Removed	N/A
Snubber 56-0-1478A-H9	Anvil	35506	N/A	UTC 1051557	UNK	Installed	N/A
Snubber Rod Eye	Anvil	N/A	N/A	UTC 1053974	UNK	Installed	N/A

7. Description of Work Replace the existing Grinnell snubber with a Config. A Anvil snubber

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720644-25

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Amel Taha, Sr. Eng. Date 11/16/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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.

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[Signature]
Inspector's Signature

Commissions NC1444 NIBBL
National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Work Order Number</td> <td style="padding: 2px 5px;">98701272-01</td> </tr> </table>					Work Order Number	98701272-01	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Sheet</td> <td style="padding: 2px 5px;">1 of 2</td> </tr> </table>			Sheet	1 of 2																																																												
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6. Identification of Components <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Name of Component</th> <th style="padding: 5px;">Name of Manufacturer</th> <th style="padding: 5px;">Manufacturer Serial Number</th> <th style="padding: 5px;">National Board No.</th> <th style="padding: 5px;">Other Identification</th> <th style="padding: 5px;">Year Built</th> <th style="padding: 5px;">Corrected, Removed, or Installed</th> <th style="padding: 5px;">ASME Code Stamped (Yes / No)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">3-53B-5-0-2438D-H92 <i>3-53B-5-0-2438D-H92</i></td> <td style="padding: 5px;">Duke</td> <td style="padding: 5px;">None</td> <td style="padding: 5px;">None</td> <td style="padding: 5px;">None</td> <td style="padding: 5px;">1970</td> <td style="padding: 5px;">Corrected</td> <td style="padding: 5px;">N/A</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>								Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)	3-53B-5-0-2438D-H92 <i>3-53B-5-0-2438D-H92</i>	Duke	None	None	None	1970	Corrected	N/A																																																
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3-53B-5-0-2438D-H92 <i>3-53B-5-0-2438D-H92</i>	Duke	None	None	None	1970	Corrected	N/A																																																																
7. Description of Work replaced bent hanger rod and installed new nuts																																																																							
8. Test Conducted <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div> <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other _____ </div> <div style="text-align: center;"> Pressure _____ PSI Test Temperature _____ °F </div> </div>																																																																							

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98701272-01

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replace bent hanger rod (UTC 1054905)

② Installed new nuts (UTC 1079284)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *F. Andrew Bauer* ENGINEER
Owner or Owner's Designee, Title

Date 11-16-05

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 9-29-05 to 12-7-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC1444 NIAB

National Board, State, Province, and Endorsements

Date 12-7-05

As required by the provisions of the ASME Code Section XI

[illegible]

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98719910

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Valve Male disc - stock code 75943 - UTC 0000926870

② Valve Female disc - Stock code 77050 - UTC 0000926869

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization Number Not Applicable Expiration Date Not Applicable

Signed John M. Alexander Senior Tech Specialist Date 11/15/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-14-05 to 12-7-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions

NC1444 NIBSC

National Board, State, Province, and Endorsements

Date 12-7-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98719910-01	Sheet 1 of 2
----------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2
		Date 11/1/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class High Pressure Injection, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>	

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Valve 2HP-17	Crane/Aloyco	Unknown	None	N/A	1968	Corrected	NO

7. Description of Work During initial inspection of the valve PM, maintenance techs found the bonnet studs and nuts slightly corroded

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98719910-01

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Body-Bonnet Studs - Stock Code 467112 - UTC # 0001006458

② Body-Bonnet Nuts - Stock Code 313135 - UTC # 0001074344

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization Number Not Applicable Expiration Date Not Applicable

Signed John M. Alexander Senior Tech Specialist Date 11/1/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-31-05 to 12-7-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC1444 NIPAC
National Board, State, Province, and Endorsements

Date 12-7-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98719296-06	Sheet 1 of 2
----------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2 Date 11/18/2005
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2RC-68	Consolidated	BL-08895	None	None	UNK	Removed	YES
2RC-68	Consolidated	BT-04976	None	None	1979	Installed	YES
① Outlet Flange Nuts for 2RC-68	UNK	None	None	None	UNK	Installed	NO
② Inlet Flange Nuts for 2RC-68	UNK	None	None	None	UNK	Installed	NO

7. Description of Work Installed valve, serial number BL-08895, was removed for section XI testing. Replaced with previously tested spare, serial number BT-04976, from stock. Valve, serial number BT-04976 was removed from unit 1 and repaired on work order number 98693303. Replaced 24 outlet flange nuts and 16 inlet flange nuts due to being unmarked or unidentifiable.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>RCS Visual</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98719296-06

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Outlet Nut Material - Stock Code # 131798 - UTC # 1057384

② Inlet Nut Material - Stock Code # 131853 - UTC #s 1033140, 1033141, 1033144 and 1067856

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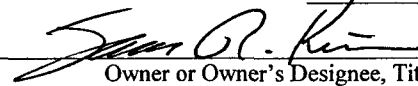
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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed  Sr. Engineer Date 11/18/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 7-28-05 to 12-1-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions N4444 N1RBC
National Board, State, Province, and Endorsements

Date 12-1-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
98693303	1 of 2

1. Owner	2. Plant	Unit
Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	ONS - 0
		Date
		11/17/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp
	Not Applicable
	Authorization Number
	Not Applicable
	Expiration Date
	Not Applicable

4. Identification of System, ASME Class
Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: ASME Section III	19	65	Edition,	67	Addenda,	No	Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19	98	Edition,	2000	Addenda.		
	(c) Applicable Section XI Code Case(s)	None						

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Pressurizer Code Safety Valve (spare)	Dresser	BT-04976	n/a	n/a	1979	Corrected	YES

7. Description of Work
Replaced disc (UTC 1068294), serial number ADQ-63.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input checked="" type="checkbox"/> Exempt <input type="checkbox"/> Other _____ Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98693303

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replaced disc (UTC 1068294), serial number ADQ-63.

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Sam A. Kline Sr. Engineer Date 11/17/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 6-20-05 to 12-1-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC1444 NIBOL
National Board, State, Province, and Endorsements

Date 12-1-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98719299-07	Sheet 1 of 2
----------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2 Date 11/16/2005
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3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant System, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition,	<u>No</u> Addenda,	<u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition,	<u>2000</u> Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2RC-66	Consolidated	BW-08706	none	none	UNK	Removed	NO
①2RC-66	Consolidated	BY93618	none	none	UNK	Installed	YES
②inlet flange bolting	UNK	none	none	none	UNK	Installed	NO

7. Description of Work Valve, serial number BW-08706, was removed for ASME section XI testing. Replaced with new spare valve, serial number BY93618. Installed new inlet studs and nuts due to spare valve having through hole inlet flange.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>RCS visual</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98719299-07

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replaced existing valve with a new spare from stock. stock code 550860, serial number BY93617, UTC 1075070. ^{827011/30/05}

② Inlet stud material - stock code # 318736 - UTC # 951541, Inlet nut material - stock code # 131853 - UTC # 1067856.

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization Number Not Applicable Expiration Date Not Applicable

Signed James O. Kuo Sr. Engineer Date 11/16/2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 7-28-05 to 12-1-05, 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 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.

James O. Kuo
Inspector's Signature

Commissions NCL444 NIASC
National Board, State, Province, and Endorsements

Date 12-1-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98712291	Sheet 1 of 2
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1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2 Date 11/3/2005
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Main Steam system, 2MS-153 , ASME Class 3

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>68</u> Edition, <u>06/68</u>	Addenda, <u>No</u>	Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u>	Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
B to B studs/thread rod	Energy Steel	UTC 1077726	N/A	sc# 29739 <i>27</i>	n/a	Installed	NO
B to B nuts	Energy Steel	UTC 1077724	n/a	sc# 319298	n/a	Installed	NO
2MS-153	Crane	UNK	UNK	n/a	n/a	Corrected	NO

7. Description of Work Replace body to bonnett bolting studs and nuts on 2MS-153 valve. Replace Bonnett to Yoke bolting studs and nuts on 2MS-153 like for like. All work completed under work order and existing plant procedures

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>FUNCTIONAL</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98712291

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed SA Clark Eng NCE Date 11/18/05

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 7-28-05 to 12-1-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions

NC1444 NIPBCL

National Board, State, Province, and Endorsements

Date

12-1-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98670064-01	Sheet 1 of 2
----------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2 Date 11/15/2005
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition,	<u>No</u> Addenda,	<u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition,	<u>2000</u> Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Valve, 2RC-IV-58	KSB	1027469	193	stock code 305255	UNK	Removed	YES
① Valve, 2RC-IV-58	KSB	460435/11	566	stock code 305255	1994	Installed	YES
② Tube to Pipe Connector *	Swagelok	none	none	part number SS-810-1-16W	UNK	Installed	NO

7. Description of Work Replaced valve with like for like replacement along with a tube to pipe connector.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual Leakage</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98670064-01

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replaced valve 2RC-IV-58 with a like for like. Valve item number DMV-678, stock code: 305255, UTC #: 830821.

② Installed Pipe to Tube Connector. Stock code: 338571, UTC #: 1081948. * Pipe to Tube adapter is class 2.

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable _____

Certificate of Authorization Number _____ Not Applicable _____ Expiration Date _____ Not Applicable _____

Signed  Sr. Engineer Date 11/15/2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5-17-05 to 12-7-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions NC 1444 NIBOL
National Board, State, Province, and Endorsements

Date 12-7-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98715637-01	Sheet 1 of 2
----------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2
		Date 11/18/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class High Pressure Injection, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>	

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
① Inlet Flange Studs	UNK	None	None	None	UNK	Installed	NO
② Inlet Flange Nuts	UNK	None	None	None	UNK	Installed	NO

7. Description of Work Replaced inlet flange studs and nuts due to existing ones being lost or misplaced.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Functional Leak Test</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98715637-01

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Inlet Flange Studs - Stock Code 297412 - UTC # 1074195

② Inlet Flange Nuts - Stock Code 293556 - UTC # 1074343

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *[Signature]* Sr. Engineer Date 11/18/2005

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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-3-05 to 12-7-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions

SC1444/NIBBL

National Board, State, Province, and Endorsements

Date 12-7-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

is required by the provisions of the ASME Code Section XI

		Work Order Number 98719129-03	Sheet 1 of 2																																																																																								
1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2 Date 11/1/2005																																																																																									
3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Type Code Symbol Stamp</td> <td style="text-align: center;">Not Applicable</td> </tr> <tr> <td style="text-align: center;">Authorization Number</td> <td style="text-align: center;">Not Applicable</td> </tr> <tr> <td style="text-align: center;">Expiration Date</td> <td style="text-align: center;">Not Applicable</td> </tr> </table>		Type Code Symbol Stamp	Not Applicable	Authorization Number	Not Applicable	Expiration Date	Not Applicable																																																																																		
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4. Identification of System, ASME Class Steam Generator - Reactor Coolant System, Feedwater System , ASME Class 1																																																																																											
5. (a) Applicable Construction Code: <u>ASME Section III</u> 19 <u>89</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>																																																																																											
6. Identification of Components <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width:15%;">Name of Component</th> <th style="width:15%;">Name of Manufacturer</th> <th style="width:15%;">Manufacturer Serial Number</th> <th style="width:10%;">National Board No.</th> <th style="width:15%;">Other Identification</th> <th style="width:10%;">Year Built</th> <th style="width:10%;">Corrected, Removed, or Installed</th> <th style="width:10%;">ASME Code Stamped (Yes / No)</th> </tr> </thead> <tbody> <tr> <td>2B Steam Generator, Primary Hand Hole Hex Nut</td> <td>B&W Canada</td> <td>006K04</td> <td>208</td> <td><i>NONE</i></td> <td>2003</td> <td>Corrected</td> <td>YES</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)	2B Steam Generator, Primary Hand Hole Hex Nut	B&W Canada	006K04	208	<i>NONE</i>	2003	Corrected	YES																																																																								
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)																																																																																				
2B Steam Generator, Primary Hand Hole Hex Nut	B&W Canada	006K04	208	<i>NONE</i>	2003	Corrected	YES																																																																																				
7. Description of Work Replacement of 2B Steam Generator primary hand hole hex nut.																																																																																											
8. Test Conducted <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div> <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other </div> <div style="text-align: right;"> <i>SYSTEM</i> Pressure <i>LEAK OK</i> </div> </div>																																																																																											

Form NIS-2 Owner's Report for Repair/Replacement Activity

is required by the provisions of the ASME Code Section XI

Work Order Number

98719129-03

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Nut, Hex, Type: Heavy Hex, 1 1/4" - 8UN 2B, SA 194 Gr B7, Dimensional Standard: ANSI B18.2.2, Stock Code 557797.

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Jeff Librath, Steam Generator Engineer Date 11-12-05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period, 11-15-05 to 12-6-05, 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 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.

Jeff Librath
Inspector's Signature

Commissions NC1444 NIABSC

National Board, State, Province, and Endorsements

Date 12-6-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98705693	Sheet 1 of 2
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1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2 Date 10/30/2005
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class RCS, ASME Class 1

5.	(a) Applicable Construction Code: ASME Section III	19 ⁸⁹ 88 Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>	

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
CRDM #63	Diamond Power	UNK	UNK	UNK	UNK	Installed	YES
① 8 CRDM hold down bolts	FANP	UNK	N/A	UTC 1056490	UNK	Installed	NO
② 1 (2 piece) nut ring	FANP	UNK	N/A	UTC 1075364	UNK	Installed	NO

7. Description of Work Remove CRDM #63 for ISI and re-install. Replace CRDM hold down bolts and nut ring with new ones per station practice for this component.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input type="checkbox"/> Other _____
Pressure <u>2155</u> PSI Test Temperature <u>~ 532</u> °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98705693

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① 8 new CRDM hold down bolts installed, old ones discarded per standard practice. Material SA-453, Gr. 660. UTC 1056490, (S/N's GN-6307, -6017, -6103, -6214, -5991, -6229, -6338, -6231)

② 1 new (2 piece) nut ring installed, old one discarded per standard practice. Material SA-320, Gr. L-43. UTC 1075364, S/N 9717-GN-84

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *Robert J. Enger* Date 10/30/1931
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-1-05 to 12-7-05, 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 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.

Robert J. Enger
Inspector's Signature

Commissions NC 1444 NIBSC
National Board, State, Province, and Endorsements

Date 12-7-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 60%; padding: 2px;">Work Order Number <div style="text-align: center;">98757305</div></td> <td style="width: 40%; padding: 2px;">Sheet <div style="text-align: center;">1 of 2</div></td> </tr> </table>				Work Order Number <div style="text-align: center;">98757305</div>	Sheet <div style="text-align: center;">1 of 2</div>																																																																																							
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7. Description of Work Remove CRDM #41 for internals repair and re-install. Replace CRDM hold down bolts and nut ring with new ones per station practice for this component.																																																																																												
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Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98757305

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① 8 new CRDM hold down bolts installed, old ones discarded per standard practice. Material SA-453, Gr. 660. 6 from UTC 1056490, (S/N's GN-5998, -5978, -6187, -6261, -6247, -6279, -6280, -6023)

② 1 new (2 piece) nut ring installed, old one discarded per standard practice. Material SA-320, Gr. L-43. UTC 1075364, (S/N 9717-GN-79)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Rob Emory / ENGR Date 10/30/2005

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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-1-05 to 12-7-05, 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.

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Inspector's Signature

Commissions NC1444 NIABSC

National Board, State, Province, and Endorsements

Date 12-7-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98757346	Sheet 1 of 2
-------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2
		Date 10/30/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class RCS, ASME Class 1

5.	(a) Applicable Construction Code: <u>ASME Section III</u>	19 <u>65</u> Edition,	<u>567</u> Addenda, <u>11/15/2005</u>	<u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition,	<u>2000</u> Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Reactor Vessel Head							
① Stud #29	B&W	204-51-29	N/A	NONE		Removed	NO
② Stud #29	B&W	204-51-62	N/A	UTC 892648		Installed	NO

7. Description of Work Replace reactor head stud at stud location 29.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input type="checkbox"/> Other _____
Pressure <u>2155</u> PSI Test Temperature <u>~ 532</u> °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98757346

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization Number Not Applicable Expiration Date Not Applicable

Signed RF Emy / ENGR Date 10/30/2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-1-05 to 12-7-05, 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.

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Inspector's Signature

Commissions

NC 1444 NIBOL
National Board, State, Province, and Endorsements

Date 12-7-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
98720378	1 of 2

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2
		Date 11/2/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Valve Tag # 2LP-28 in the LPI System, ASME Class 2

5.	(a) Applicable Construction Code: <u>ASME Section III</u>	19 <u>68</u> Edition, <u>06/68</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>	

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Removed old 7/8" B/B studs & nuts	UNK	N/A	N/A	N/A	N/A	Removed	NO
Installed New 7/8" B/B studs	Mackson	Heat #719550		UTC# 0001081618		Installed	NO
Installed New 7/8" B/B nuts	Mackson	Heat Code# JSY		UTC# 0001076713	N/A	Installed	NO

7. Description of Work Replace body/bonnet studs and nuts on 2LP-28. Work completed under work order and existing plant procedures

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>F/V Leak Check</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720378

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *Claudio R. King / VHE Engineering* Date 11-2-2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-3-05 to 12-7-05, 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.

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[Signature]
Inspector's Signature

Commissions NC1444 NIBBC
National Board, State, Province, and Endorsements

Date 12/7/05

As required by the provisions of the ASME Code Section XI

8. Test Conducted
☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ Other Visual
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98757040-03

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Valve plug/stem assembly, Stock code # 18079, UTC # 0001078058

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed John M. Alexander Senior Technical Specialist
Owner or Owner's Designee, Title

Date 11/9/05

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-5-05 to 12-8-05, 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.

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[Signature]
Inspector's Signature

Commissions

NC 1444 NIAISL

National Board, State, Province, and Endorsements

Date 12-8-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
98719909-01	1 of 2

1. Owner	2. Plant	Unit
Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	ONS - 2
		Date
		11/1/2005

3. Work Performed by	Type Code Symbol Stamp
Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Not Applicable
	Authorization Number
	Not Applicable
	Expiration Date
	Not Applicable

4. Identification of System, ASME Class
High Pressure Injection, ASME Class 2

5.	(a) Applicable Construction Code:	USAS B31.7	19	69	Edition,	No	Addenda,	No	Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity		19	98	Edition,	2000	Addenda.		
	(c) Applicable Section XI Code Case(s)	None							

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Valve 2HP-18	Crane/Aloyco	Unknown	None	N/A	1968	Corrected	NO

7. Description of Work
During initial inspection of the valve PM, maintenance techs found the bonnet studs and nuts slightly corroded

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other Visual
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98719909-01

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Body-Bonnet Studs - Stock Code 467112 - UTC # 0001006458

② Body-Bonnet Nuts - Stock Code 313135 - UTC # 0001074344

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed John M. Alexander Senior Tech Specialist Date 11/1/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-21-05 to 12-8-05, 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.

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[Signature]
Inspector's Signature

Commissions NC1444 NIA152
National Board, State, Province, and Endorsements

Date 12-8-05

019

8. Test Conducted ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ Visual
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98720097-01

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Valve spindle, serial # 600346, Duke Stock Code # 486801, UTC # 0001085423

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed John M. Blumhardt Senior Tech Specialist Date 11/8/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-5-05 to 12-19-05, 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.

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[Signature]
Inspector's Signature

Commissions NC 1444 NABCB

National Board, State, Province, and Endorsements

Date 12-19-05

01. ?

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98693392-04	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit
		Date 11/16/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Main Steam, ASME Class 2

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition,	<u>No</u> Addenda,	<u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition,	<u>2000</u> Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Snubber 2-01A-0-1481B-H8B	Lisega	614150/001	N/A	N/A	N/A	Removed	N/A
Snubber 2-01A-0-1481B-H8B	Lisega	615853/089	N/A	UTC 1085722	UNK	Installed	N/A

7. Description of Work Replaced Lisega snubber containing AK350 fluid with one containing AP280.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

as required by the provisions of the ASME Code Section XI

Work Order Number

98693392-04

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp Not Applicable

Certificate of Authorization Number Not Applicable Expiration Date Not Applicable

Signed Paul M. L., Sr. Eng. Date 11/16/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-21-05 to 11-21-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC 1444 NIBOL
National Board, State, Province, and Endorsements

Date 11-21-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98656689-01	Sheet 1 of 2
-----------------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit 2
		Date 12/19/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u>	19 <u>69</u> Edition,	<u>No</u> Addenda,	<u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 <u>98</u> Edition,	<u>2000</u> Addenda.	
	(c) Applicable Section XI Code Case(s) <u>None</u>			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
New Miller cylinder on snubber 50-0-1481A-H1	Grinnell	18597	N/A	N/A	UNK	Removed	N/A
Hydraulic snubber upgrade kit	Anvil	35407	N/A	UTC 1042692	UNK	Installed	N/A

7. Description of Work Replace the existing New Miller cylinder with a Anvil Config. A

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u>
Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98656689-01

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed *Paul M. Smith* Sc. Eng. Date 12/19/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 12-20-05 to 12-20-05, 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 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.

R. Smith
Inspector's Signature

Commissions NC 1444 NIBSC
National Board, State, Province, and Endorsements

Date 12-20-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

		Work Order Number <div style="text-align: center;">98719745</div>	Sheet <div style="text-align: center;">1 of 2</div>																																																																																
1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit <div style="text-align: center;">ONS - 2</div>																																																																																	
		Date <div style="text-align: center;">11/20/2005</div>																																																																																	
3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006		Type Code Symbol Stamp <div style="text-align: center;">Not Applicable</div>																																																																																	
		Authorization Number <div style="text-align: center;">Not Applicable</div>																																																																																	
		Expiration Date <div style="text-align: center;">Not Applicable</div>																																																																																	
4. Identification of System, ASME Class <div style="text-align: center;">High Pressure Injection, ASME Class 2</div>																																																																																			
5. (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>																																																																																			
6. Identification of Components <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 12.5%;">Name of Component</th> <th style="width: 12.5%;">Name of Manufacturer</th> <th style="width: 12.5%;">Manufacturer Serial Number</th> <th style="width: 12.5%;">National Board No.</th> <th style="width: 12.5%;">Other Identification</th> <th style="width: 12.5%;">Year Built</th> <th style="width: 12.5%;">Corrected, Removed, or Installed</th> <th style="width: 12.5%;">ASME Code Stamped (Yes / No)</th> </tr> </thead> <tbody> <tr> <td>2HP-16 valve</td> <td>Crane/Aloyco</td> <td>Unknown</td> <td>None</td> <td>N/A</td> <td>1968</td> <td>Corrected</td> <td>NO</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)	2HP-16 valve	Crane/Aloyco	Unknown	None	N/A	1968	Corrected	NO																																																																
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)																																																																												
2HP-16 valve	Crane/Aloyco	Unknown	None	N/A	1968	Corrected	NO																																																																												
7. Description of Work During inspection of the valve discs, Maintenance techs decided to replace the valve discs because of scratches.																																																																																			
8. Test Conducted <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>Visual</u> </div> <div> Pressure _____ PSI Test Temperature _____ °F </div> </div>																																																																																			

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98719745

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Valve Female disc - Stock code 77050 - UTC 0000926869

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed Sandy H. Clark Engineer Date 11/20/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 1-3-06 to 1-3-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions NC 1444 NIBBL
National Board, State, Province, and Endorsements

Date 1-3-06

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

As Required By The Provisions Of The ASME Code Section XI

1. Owner **Duke Power Company**
Address **526 S. Church Street, Charlotte, NC 28201-1006**

1a. Date 09-13-04

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**
Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98623091-15
Repair Organization Job # _____

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

3b. NSM or MM # N/A

4. Identification of System STEAM DRAIN Class 2

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, N/A Addenda, N/A Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	SR2-01A-0-1401B-R16	GRINNELL	20936	N/A	N/A	2004	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

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

7. Description of Work REBUILD SNUGGER ON 9R2-01A-0-1401B-R16

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp. _____ °F

Pressure _____ psig

Test Temp. _____ °F

Pressure _____ psig

Test Temp. _____ °F

9. Remarks N/A

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature] QA Spec.

Date SEPT. 13, 2004

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of North Carolina and employed by ASBCT have inspected the components described in this Owner's Report during the period 9/13/04 to 9/13/04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions

NC1169 ABNI
National Board, State, Providence and Endorsements

Date 9/13/04

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

1. Owner **Duke Power Company**
 Address **526 S. Church Street, Charlotte, NC 28201-1006**

1a. Date 11/16/2008

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**
 Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98627319-01
 Repair Organization Job # _____

3b. NSM or MM # ✓

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

4. Identification of System LOW PRESSURE INJECTION Class B

5. (a) Applicable Construction Code B31.7 1969 Edition, 2-69 Addenda, N/A Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	<u>ZLP-22</u>	<u>POWELL</u>	<u>UNKNOWN</u>	<u>UNKNOWN</u>	<u>UNKNOWN</u>	<u>N/A</u>	<input type="checkbox"/> Repaired <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

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

7. Description of Work Replaced Body to Bonnet & Yoke to Bonnet for Valve 2 LP 22

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig Test Temp. _____ °F

Pressure _____ psig Test Temp. _____ °F

Pressure _____ psig Test Temp. _____ °F

9. Remarks _____

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

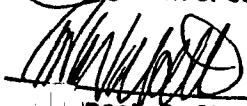
Expiration Date N/A

Signed T.R. Dulan Technical Specialist Date 11-22-2004
 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 of Providence of FLORIDA and employed by HSBC have inspected the components described in this Owner's Report during the period 4/12/04 to 11/22/04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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


 Inspector's Signature

Commissions FL 124 A, B, E, N, NS
 National Board, State, Providence and Endorsements

Date 11/22/04

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

1. Owner **Duke Power Company**
 Address **526 S. Church Street, Charlotte, NC 28201-1006**

1a. Date 11-16-04

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**
 Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98480128-01
 Repair Organization Job # _____

3b. NSM or MM # N/A

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

4. Identification of System LOW PRESSURE Injection Class A

5. (a) Applicable Construction Code B31.7 1969 Edition, 8-69 Addenda, N/A Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and CC and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	<u>2LP-1</u>	<u>Walworth</u>	<u>5262-PS</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

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

7. Description of Work Replaced Wedge in Valve Z-LP-1

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp. _____ °F

Pressure _____ psig

Test Temp. _____ °F

Pressure _____ psig

Test Temp. _____ °F

9. Remarks N/A

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed T.R. Bowman QA Specialist Date 11-16-04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of FLORIDA and employed by HSBCT have inspected the components described in this Owner's Report during the period 11/17/04; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions FL 124 A.B.I.N.NS
National Board, State, Providence and Endorsements

[Signature]
Inspector's Signature
Date 11/17/04

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

1. Owner **Duke Power Company**
 Address **526 S. Church Street, Charlotte, NC 28201-1006**

1a. Date 12-7-05

Sheet 1 of 1

2. Plant **Oconee Nuclear Station**
 Address **7800 Rochester Hwy. Seneca, S.C. 29672**

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

3a. Work Order # 98378383-01
 Repair Organization Job # _____

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

3b. NSM or MM # _____

4. Identification of System LPI Class B

5. (a) Applicable Construction Code B31.7 1969 Edition, 8-69 Addenda, N/A Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989, No Addenda (1992 through 1992 Addenda for Class MC and CG and their supports.)

6. Identification of Components Repaired or Replaced and Replacement Components

	Column 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
	Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board Number	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (yes or no)
A	Valve * 2 LPI-21	Powell	UKN	UKN	N/A	UKN	<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> Replacement	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
B							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
C							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
D							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
E							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes
F							<input type="checkbox"/> Repaired <input type="checkbox"/> Replaced <input type="checkbox"/> Replacement	<input type="checkbox"/> No <input type="checkbox"/> Yes

Form NIS-2 (Back)

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

7. Description of Work * Replaced Wedge and Bolting Material for 2 LPS-21

8. Test Conducted: ☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☒ Exempt

Pressure _____ psig

Test Temp. _____ °F

Pressure _____ psig

Test Temp. _____ °F

Pressure _____ psig

Test Temp. _____ °F

9. Remarks * Wedge MFG Serial # - 1 UTC - 1046015
3/4" studs UTC - 1066290
3/4" Nuts UTC - 1063069

(Applicable Manufacturer's 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 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed T.R. Bowen Technical Support II Date 12/7/05
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of NORTH CAROLINA and employed by HSBCT have inspected the components described in this Owner's Report during the period 4-6-04 to 12-8-05; 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
 Inspector's Signature

Commissions NC1444 NABSC
 National Board, State, Providence and Endorsements

Date 12-8-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
98693302	1 of 2

1. Owner	2. Plant	Unit
Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	ONS - 0
		Date
		11/17/2005

3. Work Performed by	Type Code Symbol Stamp
Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Not Applicable
	Authorization Number
	Not Applicable
	Expiration Date
	Not Applicable

4. Identification of System, ASME Class
Reactor Coolant, ASME Class 1

5.
(a) Applicable Construction Code: ASME Section III 19 65 Edition, 67 Addenda, No Code Case
(b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.
(c) Applicable Section XI Code Case(s) None

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Pressurizer Code Safety Valve (spare)	Dresser	BL-08890	n/a	n/a	1970	Corrected	YES

7. Description of Work
Replaced disc (UTC 1068296), serial number ADQ-65.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input checked="" type="checkbox"/> Exempt <input type="checkbox"/> Other
Pressure PSI Test Temperature °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98693302

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replaced disc (UTC 1068296), serial number ADQ-65.

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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable

Certificate of Authorization Number _____ Not Applicable Expiration Date _____ Not Applicable

Signed James D. Kir Sr. Engineer Date 11/17/05
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 7-28-05 to 12-1-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions NC1444 NIABC
National Board, State, Province, and Endorsements

Date 12-1-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98719295-04	Sheet 1 of 2
----------------------------------	-----------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2
		Date 11/17/2005

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class Reactor Coolant, ASME Class 1

5.	(a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda.
	(c) Applicable Section XI Code Case(s) <u>None</u>

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2RC-67	Consolidated	BL-08891	None	None	1970	Removed	YES
2RC-67	Consolidated	BL-08890	None	None	1970	Installed	YES

7. Description of Work Installed valve, serial number BL-08891, was removed for section XI testing. Replaced with previously tested spare, serial number BL-08890, from stock. Valve, serial number BL-08890 was removed from unit 1 and repaired on work order number 98693302.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other <u>RCS Visual</u> Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98719295-04

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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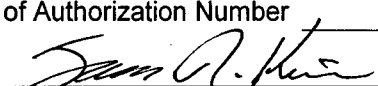
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CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ Not Applicable


Certificate of Authorization Number _____ Not Applicable _____ Expiration Date _____ Not Applicable

Signed  Sr. Engineer Date 11/17/2005
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 NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 7-28-05 to 12-1-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions NC1444 NIBSC
National Board, State, Province, and Endorsements

Date 12-1-05

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number 98732127-01	Sheet 1 of 2 JHB
----------------------------------	------------------------

1. Owner Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2 Date 2/9/2006 *
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------

3. Work Performed by Duke Power Company 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class High Pressure Injection system, Letdown Cooler, ASME Class 1	* See 9. Remarks on sheet 2 of 2
---------------------------------------------------------------------------------------------------------	-------------------------------------

5.	(a) Applicable Construction Code: ASME Section III	19 80	Edition, Sum. 80	Addenda, No	Code Case
	(b) Applicable Edition Section XI Utilized For R/R Activity	19 98	Edition, 2000	Addenda.	
	(c) Applicable Section XI Code Case(s)	None			

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2A Letdown Cooler (1)	Graham Manufacturing Corp.	44773-1	12767	None	1983	Removed	YES
2A Letdown Cooler (2)	Graham Manufacturing Corp.	44773-2	12768	None	1983	Installed	YES

7. Description of Work Replacement of 2A Letdown Cooler with used spare cooler of same design.

8. Test Conducted
<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input type="checkbox"/> Exempt <input checked="" type="checkbox"/> Other functional leak check Pressure _____ PSI Test Temperature _____ °F

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the provisions of the ASME Code Section XI

Work Order Number

98732127-01

Sheet

2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① N-1 attached for S/N 44773-1

② N-1 attached for S/N 44773-2

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* From Sheet 1 of 2; This NIS-2 was originally prepared on 11/11/05, but erroneously identified the ASME Class of the System (line 4) as "Class 3" when it should have been "Class 1".

This NIS-2 is being regenerated to correct the error.
Ref. PIP O-06-80750.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp

Not Applicable

Certificate of Authorization Number

Not Applicable

Expiration Date

Not Applicable

Signed

James H. Patton

Engineer

Date

2/9/2006

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-17-05 to 11-28-05, 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 measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions

NC1444NIBAL

National Board, State, Province, and Endorsements

Date

2/13/06

STEAM GENERATOR PRESERVICE WELD EXAMINATION

Modification Package No.	Work Package No.	Work Order No.	Field Weld No.	ISI Class	Preservice NDE
ON 23086 AM1	23080A	98516356	2MS-0124-68V	2	VT, MT, RT, UT
ON 23086 AM1	23080A	98516356	2MS-0124-69V R6	2	VT, MT, RT, UT
ON 23086 AM1	23080A	98516356	2MS-0124-71V R4	2	VT, MT, RT, UT
ON 23086 AM1	23080A	98516356	2MS-0124-72V R1	2	VT, MT, RT, UT
ON 23086 AM1	23080B	98516357	2MS-0123-68V	2	VT, MT, RT, UT
ON 23086 AM1	23080B	98516357	2MS-0123-70V	2	VT, MT, RT, UT
ON 23086 AM1	23080B	98516357	2MS-0123-71V	2	VT, MT, RT, UT
ON 23086 AM1	23080B	98516357	2MS-0123-73V	2	VT, MT, RT, UT
ON 23086 AM2	23085A	98516899	2FDW-0226-100V	2	VT, MT, RT, UT
ON 23086 AM2	23085A	98516899	2FDW-0226-101V	2	VT, MT, RT, UT
ON 23086 AM2	23085A	98516899	2FDW-0226-98V R1	2	VT, MT, RT, UT
ON 23086 AM2	23085A	98516899	2FDW-0226-99V	2	VT, MT, RT, UT
ON 23086 AM2	23085B	98516911	2FDW-0253-108V R1	2	VT, MT, RT, UT
ON 23086 AM2	23085B	98516911	2FDW-0253-109V R1	2	VT, MT, RT, UT
ON 23086 AM2	23085B	98516911	2FDW-0253-110V	2	VT, MT, RT, UT
ON 23086 AM2	23085B	98516911	2FDW-0253-111V R2	2	VT, MT, RT, UT
ON 23086 AM3	23075A	98530942	2FDW-0189-30V R3	2	VT, MT, RT, UT
ON 23086 AM3	23075A	98530942	2FDW-0210-78V C1	3	VT, MT

STEAM GENERATOR PRESERVICE WELD EXAMINATION

Modification Package No.	Work Package No.	Work Order No.	Field Weld No.	ISI Class	Preservice NDE
ON 23086 AM3	23075B	98530949	2FDW-0190-49V R2	2	VT, MT, RT, UT
ON 23086 AM3	23075B	98530949	2FDW-0190-50V	2	VT, MT, RT, UT
ON 23086 AM4	23065A	98532391	2RC-0279-90V (CL 2A2)	1	VT, MT, RT, UT
ON 23086 AM4	23065A	98532391	2RC-0279-91V (CL 2A1)	1	VT, MT, RT, UT
ON 23086 AM4	23065B	98532393	2RC-0279-94V (CL 2B2)	1	VT, MT, RT, UT
ON 23086 AM4	23065B	98532393	2RC-0279-95V (CL 2B1)	1	VT, MT, RT, UT
ON 23086 AM4	23067A	98532391	2RC-0279-88V (HL ME)	1	VT, MT, RT, UT
ON 23086 AM4	23067A	98532391	2RC-0279-89V R3a (HL PE)	1	VT, MT, RT, UT
ON 23086 AM4	23067B	98532393	2RC-0279-92V (HL)	1	VT, MT, RT, UT
ON 23086 AM4	23067B	98532393	2RC-0279-93VR2 (HL)	1	VT, MT, RT, UT
ON 23086 AM5	23522A	98532818	2FDW-0280-172V	2	VT, RT
ON 23086 AM5	23522A	98532818	2FDW-0281-176V	2	VT, RT
ON 23086 AM5	23522A	98532818	2FDW-0282-176V	2	VT, RT
ON 23086 AM5	23522A	98532818	2FDW-0282-183V	2	VT, RT
ON 23086 AM5	23522B	98532820	2FDW-0285-149V	2	VT, RT
ON 23086 AM5	23522B	98532820	2FDW-0286-156V	2	VT, RT
ON 23086 AM5	23522B	98532820	2FDW-0287-163V	2	VT, RT
ON 23086 AM5	23522B	98532820	2FDW-0287-170V	2	VT, RT

Date: 12/27/05

Sheet: 1 of 1

TO: ONS ISIM Plan Manager

FROM: ONS QA Tech. Support

RE: **PRESERVICE EXAMINATIONS OF CLASS 1 & 2 WELDS**

As required by ASME Section XI 1998 Edition with 2000 addenda. Pre-service examinations were performed on ISI Class 1 & 2 welds made during the **U2EOC21** outage timeframe. The following is a list of the welds that received pre-service examinations during this outage timeframe.

WORK ORDER NUMBER	WELD NUMBER	ISI CLASS	INSPECTION TYPE			
			MT	PT	RT	UT
98705438	2HP-0483 - 1, 2, 3, 4, 5, 12, 13, & 14	2		X		
"	2HP-0484 - 1, 2, 3, 8, 9, 10, 11, 12, & 17	2		X		
"	2HP-0485 - 1, 2, 3, 8, 9, 10, 11, 12, & 17	2		X		
"	2HP-0486 - 1, 2, 3, 4, 5, 12, 13, & 14	2		X		
"	2HP-0487 - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, & 19	2		X		
"	2HP-0488 - 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, & 20	2		X		
"	2LWD-0470 - 38, 39, 40, 41, 42, 43, 44, 45, & 46	2		X		
98745816	2HP-0497 - 55 & 56	2		X		
98732127	2HP-0495 - 27	1		X		
"	2HP-0496 - 37	1		X		

Prepared By: John R. Bryant

6.0 Pressure Testing

This is a two-part summary showing a compilation of Class 1 and Class 2 pressure tests conducted from refueling outage EOC-20 through refueling outage EOC-21 for Oconee Unit 2. The first part of this summary, titled "*Third Period / Third Interval Summary*," is a completion status for the third period of the third 10-year interval. The second part, titled "*First Period / Fourth Interval Summary*," is a completion status for the first period of the fourth 10-year interval.

Third Period / Third Interval Summary

Table 6-1 shows the number of the Class 1 pressure tests conducted to fulfill the requirements of the third inspection period of the third 10-year interval. There was no through-wall leakage observed during the pressure test.

Table 6-1 Outage Specific Summary		
Examination Category	Test Requirement	Total Examinations Credited Since Refueling Outage 20
B-P	System Hydrostatic Test (IWB-5222)	2

Table 6-2 shows a completion status of pressure tests conducted during the third period of the third ten-year interval.

Table 6-2 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-E	System Hydrostatic Test (IWB-5222)	1	1	100%
B-P	System Leakage Test (IWB-5221)	1	1	100%
B-P	System Hydrostatic Test (IWB-5222)	7	7 ¹	100%
C-H	System Inservice/Functional Test (IWC-5221)	13	13	100%
C-H	System Hydrostatic Test (IWC-5222)	43	43	100%

¹ Two of the seven Category B-P hydrostatic tests required for the third period of the third 10-year interval are included in this summary report. The other five were reported previously in the EOC20 summary report. Reference Problem Investigation Process (PIP) serial number O-03-02056.

The Class 1 (Category B-P) hydrostatic test is required once during each 10-year interval. Table 6-3 shows the completion data of the Class 1 (Category B-P) hydrostatic tests conducted during refueling cycle EOC21. These tests were for the isolated area between two closed valves and were not part of the Class 1 Leakage Test boundary that is required each refueling outage. Therefore, one test was not conducted to satisfy two different interval requirements.

Table 6-3 Detailed Class 1 Listing			
Zone Number	Boundary Dwg	EOC21 Completion Status	EOC21 VT-2 Examination Date
OZ2H-1V	O-ISIH-100A-2.2	Complete	11/23/05
OZ2H-1W	O-ISIH-102A-2.1	Complete	11/23/05

First Period / Fourth Interval Summary

This portion of the summary report is a pressure test completion status for the first period of the fourth ten-year interval. Table 6-4 shows the number of pressure tests completed from refueling outage EOC-20 through refueling outage EOC-21. There was no through-wall leakage observed during these pressure tests.

Table 6-4 Outage Specific Summary		
Examination Category	Test Requirement	Total Examinations Credited For This Outage
B-P	System Leakage Test (IWB-5220)	1
C-H	System Leakage Test (IWC-5220)	42

Table 6-5 shows a completion status of pressure tests conducted during the first period of the fourth 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)	2	1	50%
C-H	System Leakage Test (IWC-5220)	52	42	80.77%

The Class 1 (Category B-P) leakage test is required each refueling outage. Table 6-6 shows the completion data of the Class 1 (Category B-P) leakage test conducted during refueling cycle EOC21.

Table 6-6 Detailed Class 1 Listing				
Zone Number	Boundary Dwg	EOC21 Completion Status	EOC21 VT-2 Examination Date	Code Case(s) Used
OZ2L-1A	O-ISIL4-100A-2.1	Complete	11/23/2005	None
	O-ISIL4-100A-2.2	Complete	11/23/2005	None
	O-ISIL4-100A-2.3	Complete	11/23/2005	None
	O-ISIL4-101A-2.1	Complete	11/23/2005	None
	O-ISIL4-101A-2.4	Complete	11/23/2005	None
	O-ISIL4-102A-2.1	Complete	11/23/2005	None
	O-ISIL4-102A-2.3	Complete	11/23/2005	None
	O-ISIL4-110A-2.1	Complete	11/23/2005	None
	O-ISIL4-110A-2.4	Complete	11/23/2005	None
OZ2L-1AA	O-ISIL4-101A-2.4	Complete	11/23/2005	None
OZ2L-1V	O-ISIL4-100A-2.2	Complete	11/23/2005	None
OZ2L-1Z	O-ISIL4-101A-2.4	Complete	11/23/2005	None
OZ2L-16	O-ISIL4-101A-2.4	Complete	11/23/2005	None

The Class 2 (Category C-H) leakage tests are required each period. Table 6-7 shows the completion data of the Class 2 (Category C-H) leakage tests required for the 1st Period.

Table 6-7 Detailed Class 2 Listing					
	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Case(s) Used
1	IZ2L-10	O-ISIL4-101A-2.3	Completed in EOC21	11/14/05	None
2	IZ2L-11	O-ISIL4-101A-2.3	Completed in EOC21	11/14/05	None
3	IZ2L-12	O-ISIL4-101A-2.3	Not Yet Tested		
		O-ISIL4-101A-2.4	Not Yet Tested		
4	IZ2L-13	O-ISIL4-101A-2.3	Completed in EOC21	07/25/05	None
5	IZ2L-14A	O-ISIL4-101A-2.3	Completed in EOC21	11/11/05	None
6	IZ2L-14B	O-ISIL4-101A-2.3	Completed in EOC21	11/11/05	None
7	IZ2L-20	O-ISIL4-101A-2.3	Completed in EOC21	07/27/05	None

	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Case(s) Used
8	IZ2L-22	O-ISIL4-101A-2.3	Not Yet Tested		
		O-ISIL4-102A-2.1	Not Yet Tested		
		O-ISIL4-102A-2.2	Not Yet Tested		
		O-ISIL4-104A-1.2	Not Yet Tested		
9	IZ2L-24	O-ISIL4-102A-2.1	Completed in EOC21	08/23/05	None
		O-ISIL4-103A-2.1	Completed in EOC21	08/23/05	None
10	IZ2L-25	O-ISIL4-102A-2.1	Completed in EOC21	08/25/05	None
		O-ISIL4-103A-2.1	Completed in EOC21	08/25/05	None
11	IZ2L-27A	O-ISIL4-102A-2.1	Not Yet Tested		
		O-ISIL4-102A-2.2	Not Yet Tested		
12	IZ2L-27B	O-ISIL4-102A-2.2	Completed in EOC21	11/19/05	None
13	IZ2L-4	O-ISIL4-101A-2.1	Completed in EOC21	07/25/05	None
14	IZ2L-41	O-ISIL4-109A-1.1	Not Yet Tested		
15	IZ2L-48	O-ISIL4-122A-2.1	Completed in EOC21	06/27/05	None
		O-ISIL4-122A-2.2	Completed in EOC21	06/27/05	None
		O-ISIL4-122A-2.3	Completed in EOC21	06/27/05	None
		O-ISIL4-122B-2.1	Completed in EOC21	06/27/05	None
		O-ISIL4-122A-2.4	Completed in EOC21	06/27/05	None
16	IZ2L-5	O-ISIL4-101A-2.1	Not Yet Tested		
		O-ISIL4-101A-2.3	Not Yet Tested		
17	IZ2L-60	O-ISIL4-124B-2.2	Completed in EOC21	09/06/05	None
		O-ISIL4-124B-2.4	Completed in EOC21	09/06/05	None
18	OZ2L-14B	O-ISIL4-101A-2.4	Completed in EOC21	11/11/05	None
19	OZ2L-15	O-ISIL4-101A-2.4	Completed in EOC21	11/23/05	None
20	OZ2L-16	O-ISIL4-101A-2.4	Completed in EOC21	11/22/05	None
21	OZ2L-17	O-ISIL4-101A-2.2	Completed in EOC21	11/21/05	None
22	OZ2L-17B	O-ISIL4-101A-2.2	Completed in EOC21	11/11/05	None
23	OZ2L-18	O-ISIL4-101A-2.2	Completed in EOC21	11/19/05	None

	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Case(s) Used
24	OZ2L-19A	O-ISIL4-104A-1.1	Completed in EOC21	11/14/05	None
		O-ISIL4-101A-2.5	Completed in EOC21	11/14/05	None
25	OZ2L-19B	O-ISIL4-101A-2.5	Completed in EOC21	11/15/05	None
26	OZ2L-1A	O-ISIL4-101A-2.1	Completed in EOC21	11/23/05	None
		O-ISIL4-101A-2.1	Completed in EOC21	11/23/05	None
		O-ISIL4-101A-2.5	Completed in EOC21	11/23/05	None
27	OZ2L-2	O-ISIL4-101A-2.1	Completed in EOC21	11/23/05	None
		O-ISIL4-101A-2.4	Completed in EOC21	11/23/05	None
		O-ISIL4-101A-2.5	Completed in EOC21	11/23/05	None
28	OZ2L-21	O-ISIL4-102A-2.1	Completed in EOC21	11/19/05	None
		O-ISIL4-102A-2.2	Completed in EOC21	11/19/05	None
		O-ISIL4-104A-1.2	Completed in EOC21	11/19/05	None
29	OZ2L-23	O-ISIL4-101A-2.2	Completed in EOC21	11/19/05	None
		O-ISIL4-102A-2.1	Completed in EOC21	11/19/05	None
		O-ISIL4-102A-2.2	Completed in EOC21	11/19/05	None
30	OZ2L-26	O-ISIL4-102A-2.2	Partial	11/19/05	None
31	OZ2L-28	O-ISIL4-102A-2.2	Partial	11/19/05	None
32	OZ2L-29	O-ISIL4-102A-2.2	Completed in EOC21	11/19/05	None
33	OZ2L-29A	O-ISIL4-102A-2.2	Completed in EOC21	11/19/05	None
		O-ISIL4-102A-2.3	Completed in EOC21	11/19/05	None
34	OZ2L-3	O-ISIL4-101A-2.1	Completed in EOC21	11/20/05	None
35	OZ2L-30	O-ISIL4-102A-2.2	Completed in EOC21	11/19/05	None
36	OZ2L-30A	O-ISIL4-102A-2.2	Completed in EOC21	11/19/05	None
		O-ISIL4-102A-2.3	Completed in EOC21	11/19/05	None
37	OZ2L-31A	O-ISIL4-102A-2.3	Completed in EOC21	10/22/05	None
38	OZ2L-31B	O-ISIL4-102A-2.3	Completed in EOC21	10/22/05	None
39	OZ2L-31C	O-ISIL4-102A-2.3	Completed in EOC21	10/22/05	None
40	OZ2L-39	O-ISIL4-104A-1.1	Not Yet Tested		
41	OZ2L-42A	O-ISIL4-110A-2.1	Completed in EOC21	11/23/05	None

	Zone Number	Boundary Dwg	Completion Status	VT-2 Examination Date	Code Case(s) Used
42	OZ2L-42B	O-ISIL4-110A-2.1	Completed in EOC21	11/23/05	None
43	OZ2L-44	O-ISIL4-110A-2.1	Not Yet Tested		
		O-ISIL4-121B-2.3	Not Yet Tested		
		O-ISIL4-121B-2.5	Partial	11/19/05	None
		O-ISIL4-121D-1.2	Not Yet Tested		
		O-ISIL4-121D-2.1	Partial	11/19/05	None
		O-ISIL4-122A-2.1	Not Yet Tested		
44	OZ2L-6	O-ISIL4-101A-2.1	Completed in EOC21	11/19/05	None
		O-ISIL4-101A-2.2	Completed in EOC21	11/19/05	None
		O-ISIL4-109A-1.1	Completed in EOC21	11/19/05	None
45	OZ2L-64	O-ISIL4-124B-2.2	Completed in EOC21	11/23/05	None
46	OZ2L-65	O-ISIL4-124B-2.4	Not Yet Tested		
47	OZ2L-7	O-ISIL4-101A-2.2	Completed in EOC21	11/11/05	None
		O-ISIL4-101A-2.3	Completed in EOC21	11/11/05	None
48	OZ2L-7B	O-ISIL4-101A-2.3	Completed in EOC21	11/11/05	None
		O-ISIL4-102A-2.1	Completed in EOC21	11/11/05	None
		O-ISIL4-102A-2.2	Completed in EOC21	11/11/05	None
49	OZ2L-89	O-ISIL4-116C-2.1	Completed in EOC21	11/04/05	None
50	OZ2L-9	O-ISIL4-101A-2.3	Completed in EOC21	11/19/05	None
		O-ISIL4-102A-2.1	Completed in EOC21	11/19/05	None
		O-ISIL4-102A-2.2	Completed in EOC21	11/19/05	None
51	OZ2L-90	O-ISIL4-116C-2.1	Completed in EOC21	11/04/05	None
52	OZ2L-91	O-ISIL4-116C-2.1	Completed in EOC21	11/04/05	None

Section 6 Prepared By:	Date:
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