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Vice President Oconee Nuclear Station

Duke Energy Corporation ONO1VP / 7800 Rochester Highway Seneca, SC 29672

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August 28, 2007

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

Subject:

Duke Power Company LLC d/b/a Duke Energy

Carolinas, LLC (Duke)

Oconee Nuclear Station, Unit 2

Docket No. 50-270

Unit 2 EOC 22 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 22 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.

B. H. Hamilton,

Site Vice-President

Oconee Nuclear Station

Attachment

AO47 NRR

INSERVICE INSPECTION REPORT

DUKE ENERGY CAROLINAS OCONEE NUCLEAR STATION UNIT 2 TWENTY-SECOND REFUELING OUTAGE



Owner's Report For INSERVICE INSPECTIONS

OCONEE UNIT 2 2007 REFUELING OUTAGE EOC22 (OUTAGE 2)

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

NRC Docket No. 50-270

Commercial Service Date: September 9, 1974

Document Completion Date 8-13-07

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

Revision 0

Prepared By:

Neviewed By:

Date 7-19-07

Date 7-19-07

Approved By:

Date 8-1-07

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

1.	1. Owner: <u>Duke Energy Carolinas, 526 S. Church St Charlotte, NC 28201-1006</u> (Name and Address of Owner)										
2.	2. Plant: Oconee Nuclear Station, 7800 Rochester Highway, Seneca, SC 29672 (Name and Address of Plant)										
3.	Plant Unit	: <u>2</u> 4. Own	er Certificate of Autho	orization (if require	d) <u>N/A</u>						
5.	Commercia	al Service Date:	September 9, 1974	6. National Bo	ard Number for Unit $ { m \underline{N}}$	<u> </u>					
7.	Component	ts Inspected:									
	ponent or ourtenance	Manufacturer Installer	Manufacturer Installer Serial No.	State or Province No.	National Board No.						
		See S	Secti <u>on 1.1 in the A</u> ttach	ned Report							

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is $8^{1}/2$ in. x 11 in., (2) information in items 1 through 6 on this 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 240

FORM NIS-1 (Back)

8. Examination Dates November 30, 2005 to May 30, 2007								
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. <u>See Subsection 4.3</u>								
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 8-1-07 Signed Duke Energy Carolinas. Owner By Meule Signed 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 **Mern Colors** employed by **Hartford Steam** Boiler of Connecticut (HSBCT)** have inspected the components described in this Owner's Report during the period **Mern** to **S-30-07**, 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 **Commissions** **NCIYYY*** NIBC** Inspector's Signature** National Board, State, Province, and Endorsements								
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 Commissions NC/YYYNIBC								

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

DISTRIBUTION LIST

- Duke Energy Carolinas
 Nuclear Technical Services Division
 Section XI Inspection Program Section
- 2. NRC Document Control Desk
- 3. HSBCT (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's Oconee Nuclear Station, Unit 2, during Outage 2/EOC 22. This is the last 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 <u>Identification Numbers</u>

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 Supplements 2, 3, 4, 6, 8 and 10. Preservice examinations of weld overlays were conducted in accordance with Code Case N-504-2 including non-mandatory Appendix Q.

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'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'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'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.

Code Case N-695 (Qualification Requirements for dissimilar metal piping welds) Items are identified by the use of UT procedure PDI-UT-10 and are listed in the Plan Report in section 3.0 of this report as dissimilar metal welds.

Code Case N-504-2 (Applicable to items that weld overlay was performed on. During 2EOC-22 outage there were welds that had weld overlay performed on them and the PSI exams were performed per Code Case N-504-2.)

Duke Power Company Problem Investigation Process Report O-07-0870, O-07-0890, O-07-0895, O-07-01151, O-07-02700, O-07-02836, O-07-02917, O-07-03154, and O-07-03172. Each PIP was written to track the Relief Request process for limited coverage on UT examinations of welds that were inspected during EOC-22 for Unit 2. The welds with limited coverage are listed in Section 4.4 of this report.

Duke Power Company Problem Investigation Process Report O-07-02608 was written to document weld problems identified during an ISI examination on the Letdown Storage Tank support.

Request for Relief 07-ON-001 (Allows Duke an alternative to perform examinations of weld overlays per Code Case N-504-2.)

Request for Relief 03-006 (Allows Duke an 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

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

Authorized Nuclear Inservice Inspector(s)

Name:

Gary Brouette and Nancy Slaughter

Employer:

HSBCT

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
B-A	Pressure Retaining Welds in Reactor Vessel	6 Welds	.5 Weld	8%	Yes
В-В	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	54 Inspections	12 Inspections	22%	Partial
B-F	Pressure Retaining Dissimilar Metal Welds	2 Welds	0 Welds	0%	Yes
B-G-1	Pressure Retaining Bolting Greater than 2 Inches in Diameter	128 Items	41.33 Items	32%	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	20 Items	9 Items	45%	No
B-J	Pressure Retaining Welds in Piping	165 Welds	37 Welds	22%	No
B-K	Welded Attachments for Vessels, Piping, Pumps and Valves	18	3	17%	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
B-L-1	Pressure Retaining Welds in Pump Casings	1 Weld	1 Weld	100%	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	3 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-0	Pressure Retaining Welds in Control Rod Housings	12 Housing Welds	4 Housing Welds	33%	Yes
В-Р	All Pressure Retaining Components	REFERE	NCE SECTION	6.0 OF THIS RI	EPORT
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	13 Supports	35%	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	11 Welds	5 Welds	45%	No
С-В	Pressure Retaining Nozzle Welds in Vessels	4 Welds	2 Welds	50%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	38 Attachments	14 Attachments	37%	No
C-D	Pressure Retaining Bolting Greater Than 2 Inches in Diameter	2 Items	2 Items 0 Items		No
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	164 Welds	42.5 Welds	26%	No
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	66 Welds	16 Welds	24%	No
C-G	Pressure Retaining Welds in Pumps and Valves	N/A	N/A	N/A	N/A
C-H	All Pressure Retaining Components	REFERE	NCE SECTION	6.0 OF THIS RI	EPORT
F-A F1.020 & F1.040 items.	Class 2 Component Supports (Except Snubbers)	137 Supports	47 Supports	34%	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.

Summary Number	Description	Percentage Complete
O2.G1.1.	Reactor Coolant Pump Flywheel	100% of EOC 22 Requirements
O2.G2.1.	HPI Nozzle Safe End Examinations	100% of EOC 22 Requirements
O2.G3.1.	Pressurizer Surge Line Examinations	None scheduled for EOC 22
O2.G4.1.	Thermal Stress Piping (NRC Bulletin 88-08)	100% of EOC 22 Requirements
O2.G11.1.0001	Reactor Pressure Vessel Head Penetration Nozzle by UT Examination per NRC Order EA-03-009.	None scheduled for EOC 22
O2.G11.1.0002	Bare Metal Visual Examination of the Reactor Pressure Vessel Head Surface per NRC Order EA-03-009.	None scheduled for EOC 22
O2.G12.1.	UT Examination per MRP-139	100% of EOC 22 Requirements
O2.G12.2.	UT Examination per MRP-139	None scheduled for EOC 22
O2.G12.3.	UT Examination per MRP-139	None scheduled for EOC 22
O2.G13.1.	VT-2 Examination per MRP-139	100% of EOC 22 Requirements
O2.G13.2.	VT-2 Examination per MRP-139	100% of EOC 22 Requirements
O2.G14.1.	VT-2 Examination per Oconee Response to BL-2004-01	100% of EOC 22 Requirements
O2.H1.1.	Pressurizer Sensing/ Sampling Nozzle Safe Ends	None scheduled for EOC 22
O2.H2.1.	Class 1 RTE Mounting Bosses	100% of EOC 22 Requirements
O2.H3.1.	Main Feedwater Piping in the East and West Penetration Rooms per QA-513J (ER-ONS-04-03)	None scheduled for EOC 22
O2.H4.1.	Main Feedwater and Main Steam Piping Supports and Attachment Welds per QA-513J (ER-ONS-04-05)	100% of EOC 22 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:

Summary/Item = ASME Section XI Tables IWB-2500-1

Number (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

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Oconee 2, 4th Interval, Outage 2 (EOC-22)

This report includes all changes through addendum ONS2-057 The user is responsible for verifying this report against the issued plan.

Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
<u>Category</u> <u>AUG</u>								
O2.G1.1.0001								G01.001.001, G01.001.001A
2-RCP-2A1	50 Class 1	OM-201D-038 O-ISIN4-100A-2.1	54-ISI-117	UT	CS	9.500 / 72.000		RCP 2A1 Flywheel. Reference Section 7 of the ISI Plan, General Requirements (G01.001.001A)Whenever maintenance or repair activities necessitate flywheel removal, a surface examination of exposed surfaces and a complete volumetric examination shall be performed if the interval measured from the previous such inspection is greater than 6 2/3 years.
O2.G1.1.0001								G01.001.001, G01.001.001A
2-RCP-2A1	50 Class 1	OM-201D-038 O-ISIN4-100A-2.1	54-ISI-271	MT	cs	9.500 / 72.000		RCP 2A1 Flywheel. Reference Section 7 of the ISI Plan, General Requirements (G01.001.001A)Whenever maintenance or repair activities necessitate flywheel removal, a surface examination of exposed surfaces and a complete volumetric examination shall be performed if the interval measured from the previous such inspection is greater than 6 2/3 years.
O2.G1.1.0005								G01.001.002, G01.001.002A
2-RCP-2A2	50 Class 1	OM-201D-038 O-ISIN4-100A-2.1	NDE-900	UT	CS	9.500 / 72.000	Component	RCP 2A2 Flywheel. Reference Section 7 of the ISI Plan, General Requirements (G01.001.002A) Whenever maintenance or repair activities necessitate flywheel removal, a surface examination of exposed surfaces and a complete volumetric examination shall be performed if the interval measured from the previous such inspection is greater than 6 2/3 years.
O2.G1.1.0006				**********				G01.001.003, G01.001.003A
2-RCP-2B1	50 Class 1	OM-201D-038 O-ISIN4-100A-2.1	NDE-900	UT	CS	9.500 / 72.000	Component	RCP 2B1 Flywheel. Reference Section 7 of the ISI Plan, General Requirements (G01.001.003A) Whenever maintenance or repair activities necessitate flywheel removal, a surface examination of exposed surfaces and a complete volumetric examination shall be performed if the interval measured from the previous such inspection is greater than 6 2/3 years.

This report includes all changes through addendum ONS2-057 The ser is responsible for verifying this report against the issued plan.

Oconee 2, 4th Interval outage 2 (EOC-22)

Summary Num				Insp	iee 2, 4iii iiilei vi	Julage 2 (EOC-22)		
Component ID / Type	System	ISO/DWG Numbers	Procedure	•	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category AUG								
O2.G1.1.0007								G01.001.004, G01.001.004
2-RCP-2B2	50 Class 1	OM-201D-038 O-ISIN4-100A-2.1	NDE-900	UT	cs	9.500 / 72.000	Component	RCP 2B2 Flywheel. Reference Section 7 of the ISI Plan, General Requirements (G01.001.004A) Whenever maintenance or repair activities necessitate flywheel removal, a surface examination of exposed surfaces and a complete volumetric examination shall be performed if the interval measured from the previous such inspection is greater than 6 2/3 years.
O2.G12.1.0005	1					,		G12.001.005
2-PDB2-11	50	ISI-OCN2-014 B&W146629E	PDI-UT-10	UT	SS-CS	0.750 / 3.500	40416 Component	2B2 HPI Nozzle Pc.46 to Safe End Pc.47. Augmented Inspection Per MRP-139. Contact Jody Shuping for
Circumferential	Class 1							additional information on this examination. Examination schedule cannot exceed 5 years between examinations.
Dissimilar		O-ISIN4-100A-2.1						Schedule carnot exceed 3 years between examinations.
						Nozzle to Safe End		
O2.G13.1.0001			•					G13.001.001
2-PZR-WP45 Circumferential	50 Class 1	ISI-OCN2-002 B&W149679E	NDE-68	VT-2	CS-Inconel	0.750 / 4.000		Pressurizer Spray Nozzle Pc. 9 to Spray Nozzle Safe End Pc. 45. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G13.001.002.
Dissimilar								
Terminal End								
						Nozzle to Safe End		
O2.G13.1.0002 2-PSP-1	50	ISI-OCN2-016	NDE-68	VT-2	SS-Inconel	0.531 / 4.000		G13.001.002 Pressurizer Spray Piping. Nozzle Pc. 45 to Pipe Pc. 90.
Circumferential	Class 1		1102 00	V 174	SS moriel	3.3317 4.330		Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar								
Terminal End								
						Nozzle to Pipe		

This report includes all changes through addendum ONS2-057 Themser is responsible for verifying this report against the issued plan.

Oconee 2, 4th Interval, Sutage 2 (EOC-22)

				Ocone	.c 2, 401 mici	vary Julaye 2 (EUU-22)	_
Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G13.1.0003							. G13.001.003
2-PZR-WP23	50	ISI-OCN2-002	NDE-68	VT-2	SS-CS	1.063 / 11.375	Pressurizer Surge Nozzle Pc. 8 to Surge Nozzle Safe
Circumferential	Class 1	B&W149768E					End Pc. 37. Material thickness ranges from 1.250 to 1.063. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector.
·							Acceptance criteria is "no evidence of borated water leakage."
Dissimilar			~			•	
Terminal End							
						Nozzle to Safe End	
O2.G13.1.0004							G13.001.004
2-PZR-WP91-1 Circumferential	50 Class 1	ISI-OCN2-002 OM-1201-1526	NDE-68	VT-2	SS-CS	0.375 / 2.500	Pressurizer Relief Nozzle Pc. 31 to Relief Nozzle Safe End Pc. 32. W-X Quadrant. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Terminal End							
			•			Nozzle to Safe End	
O2.G13.1.0005							G13.001.005
2-PZR-WP91-2 Circumferential	50 Class 1	ISI-OCN2-002 OM-1201-1526	NDE-68	VT-2	SS-CS	0.375 / 2.500	Pressurizer Relief Nozzle Pc. 31 to Relief Nozzle Safe End Pc. 32. X-Y Quadrant. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Terminal End							
						Nozzle to Safe End	
						NOZZIE to Sale Elid	

This report includes all changes through addendum ONS2-057 Theorem is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval, outage 2 (EOC-22)

					ee 2, 4m mierv	an outage 2 (EUC-22)	•
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
<u>Category</u> <u>AUG</u>							
O2.G13.1.0006							G13.001.006
2-PZR-WP91-3	50	ISI-OCN2-002	NDE-68	VT-2	SS-CS	0.375 / 2.500	Pressurizer Relief Nozzle Pc. 31 to Relief Nozzle Safe
Circumferential	Class 1	OM-1201-1526					End Pc. 32. Z-W Quadrant. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Terminal End							
						Nozzle to Safe End	
O2.G13.1.0007							G13.001.007
2-PHA-17	50	ISI-OCN2-005	NDE-68	VT-2	CS-Inconel	1.125 / 12.750	Steam Generator 2A Hot Leg to Reactor Vessel.
Circumferential	Class 1	B&W146630E					Decay Heat Nozzle Pc. 34 to Inconel Buttering Pc. 17. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G13.001.008.
Dissimilar							
Stress Weld							
						Nozzle to Buttering	
O2.G13.1.0008							G13.001.008
2-53A-10-10A	53A	2-53A-10	NDE-68	VT-2	SS-Inconel	1.125 / 12.000	Low Pressure Injection System. Decay Heat Nozzle
Circumferential	Class 1	B&W146630E O-ISIN4-100A-2.1					Inconel Buttering Pc. 34 to Pipe (12" NPS). Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Stress Weld							
						Nozzle Inconel Buttering to Pip	pe
						3.5.4	

This report includes all changes through addendum ONS2-057 The ser is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval outage 2 (EOC-22)

				000.		, odlago 2 (200 22)	
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G13.1.0009			•				G13.001.009
2-PHB-17	50	ISI-OCN2-006	NDE-68	VT-2	CS-Inconel	1.000 / 10.750	Steam Generator 2B Hot Leg to Reactor Vessel. Surge
Circumferential Dissimilar	Class 1	B&W146622E					Nozzle Pc. 25 to Inconel Buttering Pc. 17. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G13.001.010.
Stress Weld							
5.1.555 7. 5.15		•				Nozzle to Buttering	
O2.G13.1.0010							G13.001.010
2-PSL-10	50	ISI-OCN2-015	NDE-68	VT-2	SS-CS	1.000 / 10.750	Pressurizer Surge Piping. Nozzle Pc. 25 to Pipe Pc. 85.
Circumferential	Class 1	B&W146622E					Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector.
							Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Stress Weld							
						Nozzle to Pipe	
O2.G13.1.0011							G13.001.011
2-PZR-WP63-1 Circumferential	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (W-X Quadrant). Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G13.001.012.
Dissimilar							
			•			Nozzle Pc.30 to Safe End Pc.	42

This report includes all changes through addendum ONS2-057 Themser is responsible for verifying this report against the issued plan.

					iee 2, 4th interv	a., outage 2 (EOC-22)	_
Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG				-			•
O2.G13.1.0012							G13.001.01
2RC-240-6B Circumferential	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
						Pipe to Safe End	
O2.G13.1.0013							G13.001.013
2-PZR-WP63-2 Circumferential	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (Y-Z Quadrant). Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G13.001.014.
Dissimilar							
						Nozzle Pc.30 to Safe End Pc.4	42
O2.G13.1.0014	-		-				G13.001.01
2RC-240-9A Circumferential	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
						Pipe to Safe End	
O2.G13.1.0015							G13.001.01
2-PZR-WP63-3 Circumferential	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (Z-W Quadrant). Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G13.001.016.
Dissimilar							_
						Nozzle Pc.30 to Safe End Pc.4	12

This report includes all changes through addendum ONS2-057 Themser is responsible for verifying this report against the issued plan.

Oconee 2, 4th Intervenoutage 2 (EOC-22)

				Ocon	iee 2, 4tri iiiter	outage 2 (EUC-22)	
Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG					•		
O2.G13.1.0016			.,,			. 5050	G13.001.01
2RC-240-4A Circumferential	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
00.010.1.0017					•	Pipe to Safe End	
O2.G13.1.0017	50	101 0010 000	NDE 00	V.T. 0	00.1	4 405 / 4 000	G13.001.01
2-PZR-WP63-4 Circumferential	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (W-X Quadrant). Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G13.001.018.
Dissimilar							
						Nozzle Pc.30 to Safe End Pc.4	12
O2.G13.1.0018							G13.001.01
2RC-240-25V Circumferential Dissimilar	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimia						D: 10/51	
00.040.4.0040						Pipe to Safe End	
O2.G13.1.0019	50	ICL OCNO 000	NDE co	VT O	00 !	1.105 / 1.000	G13.001.01
2-PZR-WP63-5 Circumferential Dissimilar	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (Y-Z Quadrant). Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G13.001.020.
Dissimilar						Nozzle Pc.30 to Safe End Pc.4	42
						Nozzie FC.50 to Sale Eliu FC.4	+C

This report includes all changes through addendum ONS2-057 Thronser is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval, outage 2 (EOC-22)

C					nee 2, 4th InterV	ਜ਼, outage 2 (EOC-22)	
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G13.1.0020							G13.001.02
2RC-240-1A Circumferential	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
						Pipe to Safe End	
O2.G13.1.0021	•						G13.001.02
2-PZR-WP63-6 Circumferential	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (Z-W Quadrant). Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G13.001.022.
Dissimilar							·
						Nozzle Pc.30 to Safe End Pc.4	12
O2.G13.1.0022							G13.001.02
2RC-240-21V Circumferential	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
<u> </u>					·	Pipe to Safe End	
O2.G13.1.0023							G13.001.02
2-PZR-WP63-7 Circumferential	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (Z-W Quadrant). Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G13.001.024.
Dissimilar						N	
						Nozzle Pc.30 to Safe End Pc.4	12

This report includes all changes through addendum ONS2-057 The ser is responsible for verifying this report against the issued plan. Oconee 2, 4th Interest outage 2 (EOC-22)

Summary Num Component ID / Type	e Systen	n ISO/DWG Numbers	s Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG						•	
O2.G13.1.0024		-					G13.001.024
2RC-206-6 Circumferential	50 Class 1	2RC-206	NDE-68	VT-2	SS-Inconel	1.250 / 1.000	Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
D							
Dissimilar							
						Pipe to Safe End	
O2.G13.1.0025							G13.001.02
2-50-16-8A Circumferential	50 Class 1	2-50-16	NDE-68	VT-2	SS-Inconel	0.250 / 1.000	1 inch PZR vent nozzle SB-166 Nozzle to SS pipe weld. (Examine the PZR surface where the PZR Vent Nozzle and the PZR Head/Shell interface and also examine the Nozzle to SS Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							·
						Pipe to Safe End	•
00.040.4.0000							040.004.00
O2.G13.1.0026 2RC-278-66 Circumferential	50 Class 1	2RC-278	NDE-68	VT-2	CS-Inconel	0.250 / 1.000	G13.001.026 1 inch HL SB-166 Pressure Tap SE to CS Nozzle weld and SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
			·			Pipe to Safe End	

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Oconee 2	4th	Interval	outage	2	(EOC-22)
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			Ocon	ee 2, 4tii iiitei v	am Sulaye 2 (EUC-22)	
Summary Num Component ID / Type	System ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG			•			
O2.G13.1.0027						G13.001.02
2RC-278-70V Circumferential	50 2RC-278 Class 1	NDE-68 .	VT-2	CS-Inconel	0.250 / 1.000	1 inch HL SB-166 Pressure Tap SE to CS Nozzle weld and SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar						
					Pipe to Safe End	
O2.G13.1.0028						G13.001.028
2RC-277-50 Circumferential	50 2RC-277 Class 1	NDE-68	VT-2	CS-Inconel	0.250 / 1.000	1 inch HL SB-166 Pressure Tap SE to CS Nozzle weld and SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar					Pipe to Safe End	
O2.G13.1.0029				-		G13.001.02
2RC-277-71V Circumferential	50 2RC-277 Class 1	NDE-68	VT-2	CS-Inconel	0.250 / 1.000	1 inch HL SB-166 Pressure Tap SE to CS Nozzle weld and SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar					5	
					Pipe to Safe End	

This report includes all changes through addendum ONS2-057 The over is responsible for verifying this report against the issued plan. Oconee 2, 4th Inteless, Sutage 2 (EOC-22)

				CCOI	ice 2, 4111 mices	SAF Sulage 2 (LOO'22)	
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G13.1.0030		* .				,	G13.001.030
2RC-278-23 Circumferential	50 Class 1	2RC-278	NDE-68	VT-2	CS-Inconel	0.250 / 1.000	.75 inch ID HL SB-167 Flowmeter Nozzle SE to CS Nozzle weld and SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar		•					
						Pipe to Safe End	
O2.G13.1.0031							G13.001.031
2RC-278-69 Circumferential	50 Class 1	2RC-278	NDE-68	VT-2	CS-Inconel	0.250 / 1.000	.75 inch ID HL SB-167 Flowmeter Nozzle SE to CS Nozzle weld and SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
•					•		
Dissimilar		•					
						Pipe to Safe End	
O2.G13.1.0032							G13.001.032
2RC-277-24 Circumferential	50 Class 1	2RC-277	NDE-68	VT-2	CS-Inconel	0.250 / 1.000	.75 inch ID HL SB-167 Flowmeter Nozzle SE to CS Nozzle weld and SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
						Pipe to Safe End	

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Oconee 2.	4th Interva-	outage 2	(EOC-22)
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Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G13.1.0033							G13.001.033
2RC-277-70 Circumferential	50 Cłass 1	2RC-277	NDE-68	VT-2	CS-Inconel	0.250 / 1.000	.75 inch ID HL SB-167 Flowmeter Nozzle SE to CS Nozzle weld and SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
		<				Pipe to Safe End	
O2.G13.2.0001			······································				G13.002.001
2-RPV-WR53	50	ISI-OCN2-001	NDE-68	VT-2	SS-CS	1.688 / 15.625	RV A-Side Core Flood Nozzle Pc. 17 to Safe End Pc.
Circumferential	Class 1	OM-1201-1528					89. W-Axis. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Terminal End							
						Nozzle to Safe End	
O2.G13.2.0002							G13.002.002
2-RPV-WR53A Circumferential	50 Class 1	ISI-OCN2-001 OM-1201-1528	NDE-68	VT-2	SS-CS	1.688 / 15.625	RV B-Side Core Flood Nozzle Pc. 17 to Safe End Pc. 89. Y-Axis. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Terminal End							
						Nozzle to Safe End	·

This report includes all changes through addendum ONS2-057 Themser is responsible for verifying this report against the issued plan.

Oconee 2, 4th Intervacioutage 2 (EOC-22)

Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Rea	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
<u>Category</u> AUG_	-			•			
O2.G13.2.0003							G13.002.003
2-PIB1-11	50	ISI-OCN2-009	NDE-68	VT-2	CS-Inconel	0.672 / 3.500	Reactor Coolant Pump 2B1 Suction Piping. Nozzle
Circumferential Dissimilar	Class 1	B&W146635E					Pc. 87 to Safe End Pc. 88. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Examine with item G13.002.004.
Stress Weld							
Sitess Weid							
·						Nozzle to Safe End	
O2.G13.2.0004							G13.002.004
2-51A-35-15A Circumferential	51A Class 1	2-51A-35 (1) O-ISIN4-101A-2.1	NDE-68	VT-2	SS-Inconel	0.375 / 2.500	Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Stress Weld							
						Elbow to Pipe	
O2.G13.2.0005							G13.002.005
2-PIA1-7 Circumferential	50 Class 1	ISI-OCN2-007 OM-1201-966	NDE-68	VT-2	SS-CS	3.000 / 33.500	Reactor Coolant Pump 2A1 Suction Piping. Pipe Pc. 56 to Safe End Pc. 55. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							bordied Water roundings.
Stress Weld				,			
						Pipe to Safe End	
						i ipo to dale cha	

This report includes all changes through addendum ONS2-057 The ser is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval, outage 2 (EOC-22)

					ee 2, 4th interv	a., outage 2 (EOC-22)	•
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							·
O2.G13.2.0006							G13.002.006
2-PIA2-7	50	ISI-OCN2-008	NDE-68	VT-2	SS-CS	2.330 / 33.500	Reactor Coolant Pump 2A2 Suction Piping. Pipe Pc.
Circumferential Dissimilar	Class 1	OM-1201-966					56 to Safe End Pc. 55. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Stress Weld							
						Pipe to Safe End	
O2.G13.2.0007							G13.002.007
2-PIB1-7	50	ISI-OCN2-009	NDE-68	VT-2	SS-CS	2.330 / 33.500	Reactor Coolant Pump 2B1 Suction Piping. Pipe Pc. 56
Circumferential	Class 1	OM-1201-966					to Safe End Pc. 55. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of porated water leakage."
Dissimilar							•
Stress Weld							
						Pipe to Safe End	
O2.G13.2.0008							G13.002.008
2-PIB2-7	50	ISI-OCN2-010	NDE-68	VT-2	SS-CS	2.330 / 33.500	Reactor Coolant Pump 2B2 Suction Piping. Pipe Pc.
Circumferential	Class 1	OM-1201-966			-		56 to Safe End Pc. 55. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Stress Weld							
						Pipe to Safe End	

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This report includes all changes through addendum ONS2-057 Therefore is responsible for verifying this report against the issued plan.

Oconee 2, 4th Interval outage 2 (EOC-22)

Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G13.2.0009							G13.002.009
2-PDA1-2	50	ISI-OCN2-011	NDE-68	VT-2	SS-CS	2.330 / 33.500	Reactor Coolant Pump 2A1 Discharge Piping. Safe End
Circumferential	Class 1	OM-1201-966					Pc. 49 to Elbow Pc. 53. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Stress Weld							
					•	Safe End to Elbow	
O2.G13.2.0010							G13.002.010
2-PDA2-2 Circumferential	50 Class 1	ISI-OCN2-012 OM-1201-966	NDE-68	VT-2	SS-CS	2.330 / 33.500	Reactor Coolant Pump 2A2 Discharge Piping. Safe End Pc. 49 to Elbow Pc. 53. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Stress Weld							
						Safe End to Elbow	
O2.G13.2.0011							G13.002.011
2-PDB1-2 Circumferential	50 Class 1	ISI-OCN2-013 OM-1201-966	NDE-68	VT-2	SS-CS	2.330 / 33.500	Reactor Coolant Pump 2B1 Discharge Piping. Safe End Pc. 49 to Elbow Pc. 53. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							ŭ
Stress Weld							
						Safe End to Elbow	

This report includes all changes through addendum ONS2-057 Theorer is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval, outage 2 (EOC-22)

				Ocon	ee 2, 4m mierv	ary outage 2 (LOC-22)	
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G13.2.0012							G13.002.012
2-PDB2-2	50	ISI-OCN2-014	NDE-68	VT-2	SS-CS	2.330 / 33.500	Reactor Coolant Pump 2B2 Discharge Piping. Safe End
Circumferential	Class 1	OM-1201-966					Pc. 49 to Elbow Pc. 53. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Stress Weld							
						Safe End to Elbow	
O2.G13.2.0014							G13.002.014
2RC-279-19AA	50	2RC-279	NDE-68	VT-2	SS-Inconel	0.250 / 1.000	1 inch LCL-SB-166 Pressure Tap SE to CS nozzle weld
Circumferential	Class 1	O-ISIN4-100A-2.1					& SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Stress Weld							
						Nozzle to Elbow	
O2.G13.2.0015		1-1-1-1					G13.002.015
2RC-279-20 Circumferential	50 Class 1	2RC-279 O-ISIN4-100A-2.1	NDE-68	VT-2	SS-Inconel	0.250 / 1.000	1 inch LCL-SB-166 Pressure Tap SE to CS nozzle weld & SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							-
Stress Weld							
						Nozzle to Elbow	

This report includes all changes through addendum ONS2-057 The seer is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval, outage 2 (EOC-22)

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Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G13.2.0016							G13.002.016
2-PIA1-11 Circumferential	50 Class 1	ISI-OCN2-007 B&W146823E	NDE-68	VT-2	SS-Inconel	0.816 / 3.500	Reactor Coolant Pump 2A1 Suction Piping. Nozzle Pc. 64 to Safe End Pc. 65. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Examine with item G13.002.017.
Dissimilar							
Stress Weld							
						Nozzle to Safe End	
O2.G13.2.0017							G13.002.01
2-50-7-29 Circumferential		2-50-7 (1) O-ISIN4-100A-2.1	NDE-68	VT-2	SS-Inconel	0.281 / 1.500	Reactor Coolant Pump 2A1 Suction Drain Piping. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Stress Weld							
						Nozzle to Elbow	
O2.G13.2.0018							G13.002.01
2-PIA2-11 Circumferential	50 Class 1	ISI-OCN2-008 B&W146823E	NDE-68	VT-2	SS-Inconel	0.816 / 3.500	Reactor Coolant Pump 2A2 Suction Piping. Nozzle Pc. 64 to Safe End Pc. 65. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Examine with item G13.002.019.
Dissimilar							
Stress Weld							
						Nozzle to Safe End	

This report includes all changes through addendum ONS2-057 The ser is responsible for verifying this report against the issued plan.

Oconee 2, 4th Interval, outage 2 (EOC-22)

50	2-50-7 (1) O-ISIN4-100A-2.1	Procedure NDE-68	NT-2	Mat SS-Inconel	Sched Thick/Dia 0.281 / 1.500	G13.002.019 Reactor Coolant Pump 2A2 Suction Drain Piping. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
50	O-ISIN4-100A-2.1	NDE-68	VT-2	SS-Inconel	0.281 / 1.500	Reactor Coolant Pump 2A2 Suction Drain Piping. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of
50	O-ISIN4-100A-2.1	NDE-68	VT-2	SS-Inconel	0.281 / 1.500	Reactor Coolant Pump 2A2 Suction Drain Piping. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of
50	O-ISIN4-100A-2.1	NDE-68	VT-2	SS-Inconel	0.281 / 1.500	Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of
	ISL OCNO 040					
	ISL OCNO 040					
	ISL OCNO 040					
	ISLOCNIZ 040				Nozzle to Elbow	
	ISL OCNIO 040					G13.002.020
	ISI-OCN2-010 B&W146823E	NDE-68	VT-2	CS-Inconel	0.816 / 3.500	Reactor Coolant Pump 2B2 Suction Piping. Nozzle Pc. 64 to Safe End Pc. 65. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Examine with item G13.002.021.
					Nozzle to Safe End	
					<u>,, , , , , , , , , , , , , , , , , , ,</u>	G13.002.02
		NDE-68	VT-2	SS-Inconel	0.281 / 1.500	Reactor Coolant Pump 2B2 Suction Drain Piping. Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
					·	
					Elbow to Nozzle	
la		, ,	• •		• •	50 2-50-7 (2) NDE-68 VT-2 SS-Inconel 0.281 / 1.500 ass 1 O-ISIN4-100A-2.1

This report includes all changes through addendum ONS2-057 The ser is responsible for verifying this report against the issued plan.

Oconee 2, 4th Intervaluage 2 (EOC-22)

System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
						G13.002.022
50	2RC-279	NDE-68	VT-2	SS-Inconel	0.250 / 1.000	1 inch UCL-SB-166 Pressure Tap SE to CS nozzle weld
Class 1	O-ISIN4-100A-2.1					& SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
					Nozzle to Elbow	
						G13.002.023
50	2RC-279	NDE-68	VT-2	SS-Inconel	0.250 / 1.000	1 inch UCL-SB-166 Pressure Tap SE to CS nozzle weld
Class 1	O-ISIN4-100A-2.1					& SS pipe weld. (Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.) Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed once every third refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
	•				Nozzle to Elbow	
				~		G14.001.001
50		NDE-68	VT-2	CS-Inconel	0.250 / 1.000	1.5 inch Thermowell located on the Pressurizer.
Class 1	OM 1201-1135 OM 100-1189					Augmented Inspection Per Oconee Response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
	Class 1 50 Class 1	50 2RC-279 Class 1 O-ISIN4-100A-2.1	Class 1 O-ISIN4-100A-2.1 50 2RC-279 NDE-68 Class 1 O-ISIN4-100A-2.1	Class 1 O-ISIN4-100A-2.1 50 2RC-279 NDE-68 VT-2 Class 1 O-ISIN4-100A-2.1 50 NDE-68 VT-2 Class 1 OM 1201-1135	Class 1 O-ISIN4-100A-2.1 50 2RC-279 NDE-68 VT-2 SS-Inconel Class 1 O-ISIN4-100A-2.1 NDE-68 VT-2 CS-Inconel Class 1 OM 1201-1135	Class 1 O-ISIN4-100A-2.1 Nozzle to Elbow

This report includes all changes through addendum ONS2-057 The user is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval, outage 2 (EOC-22)

					CC 2, 4111 1111C1 VI	un, catago 2 (200 22)	
Summary Num Component ID / Type	Systen	m ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G14.1.0002							G14.001.002
2-PZR-WP45 Circumferential	50 Class 1	ISI-OCN2-002 B&W149679E	NDE-68	VT-2	CS-Inconel	0.750 / 4.000	Pressurizer Spray Nozzle Pc. 9 to Spray Nozzle Safe End Pc. 45.
							Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G14.001.003.
Dissimilar							
Terminal End							
						Nozzle to Safe End	
O2.G14.1.0003							G14.001.003
2-PSP-1	50	ISI-OCN2-016	NDE-68	VT-2	SS-Inconel	0.531 / 4.000	Pressurizer Spray Piping. Nozzle Pc. 45 to Pipe Pc. 90.
Circumferential	Class 1	OFD 100A-2.2					Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Terminal End							
						Nozzle to Pipe	
O2.G14.1.0004							G14.001.004
2-PZR-WP23 Circumferential	50 Class 1	ISI-OCN2-002 B&W149768E	NDE-68	VT-2	SS-CS	1.063 / 11.375	Pressurizer Surge Nozzle Pc. 8 to Surge Nozzle Safe End Pc. 37. Material thickness ranges from 1.250 to 1.063.
							Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar		•					
Terminal End							
	-				•	Nozzle to Safe End	
						. TOZZIO TO GATO ZITA	

					e 2, 4m inter	var-outage 2 (EOC-22)	▼
Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G14.1.0005							G14.001.005
2-PZR-WP91-1	50	ISI-OCN2-002	NDE-68	VT-2	SS-CS	0.375 / 2.500	Pressurizer Relief Nozzle Pc. 31 to Relief Nozzle Safe
Circumferential	Class 1	OM-1201-1526					End Pc. 32. W-X Quadrant. Augmented Inspection Per Oconee response to BL- 2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Terminal End							
						Nozzle to Safe End	
O2.G14.1.0006							G14.001.006
2-PZR-WP91-2 Circumferential	50 Class 1	ISI-OCN2-002 OM-1201-1526	NDE-68	VT-2	SS-CS	0.375 / 2.500	Pressurizer Relief Nozzle Pc. 31 to Relief Nozzle Safe End Pc. 32. X-Y Quadrant. Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Terminal End							
						Nozzle to Safe End	
O2.G14.1.0007					-0		G14.001.007
2-PZR-WP91-3 Circumferential	50 Class 1	ISI-OCN2-002 OM-1201-1526	NDE-68	VT-2	SS-CS	0.375 / 2.500	Pressurizer Relief Nozzle Pc. 31 to Relief Nozzle Safe End Pc. 32. Z-W Quadrant. Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
Terminal End							
						Nozzle to Safe End	

Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							·
O2.G14.1.0008							G14.001.008
2-PZR-WP63-1 Circumferential Dissimilar	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (W-X Quadrant). Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G14.001.009.
Dissimilar							_
						Nozzle Pc.30 to Safe End Pc.4	
O2.G14.1.0009							G14.001.009
2RC-240-6B Circumferential	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
						Pipe to Safe End	
O2.G14.1.0010							G14.001.010
2-PZR-WP63-2 Circumferential	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (Y-Z Quadrant). Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G14.001.011.
Dissimilar							
						Nozzle Pc.30 to Safe End Pc.4	12

Oconee 2, 4th	Interva outa	age 2 (EOC-22)
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Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G14.1.0011							G14.001.01
2RC-240-9A Circumferential Dissimilar	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimila						Pipe to Safe End	
						Pipe to Sale Ello	0.1.001.01
O2.G14.1.0012		101 00110 000		\ (T_ 0			G14.001.01
2-PZR-WP63-3 Circumferential Dissimilar	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (Z-W Quadrant). Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G14.001.013.
						Nozzle Pc.30 to Safe End Pc.4	0
00.014.1.0010						Nozzie Pc.30 to Sale Enu Pc.4	G14.001.01
O2.G14.1.0013 2RC-240-4A Circumferential	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							•
						Pine to Safe End	

Pipe to Safe End

This report includes all changes through addendum ONS2-057 Thomser is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval, outage 2 (EOC-22)

				000		, catago 2 (200 22)	
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G14.1.0014							G14.001.01-
2-PZR-WP63-4 Circumferential	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (W-X Quadrant). Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G14.001.015.
Dissimilar							_
						Nozzle Pc.30 to Safe End Pc.4	
O2.G14.1.0015							G14.001.01
2RC-240-25V Circumferential	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
						Pipe to Safe End	
O2.G14.1.0016						-	G14.001.01
2-PZR-WP63-5 Circumferential	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (Y-Z Quadrant). Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G14.001.017.
Dissimilar							
						Nozzle Pc.30 to Safe End Pc.4	42

This report includes all changes through addendum ONS2-057 The seer is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval, outage 2 (EOC-22)

					CC 2, 1117 1711C1 V	un, outage 1 (100 11)	
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G14.1.0017							G14.001.017
2RC-240-1A Circumferential Dissimilar	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar						Diag. 45 Octo Food	
						Pipe to Safe End	
O2.G14.1.0018	5.0	101.00010.000	NDE 00	\	001	4 405 / 4 000	G14.001.018
2-PZR-WP63-6 Circumferential Dissimilar	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (Z-W Quadrant). Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G14.001.019.
						Nozzle Pc.30 to Safe End Pc.4	2
O2.G14.1.0019							G14.001.019
2RC-240-21V Circumferential Dissimilar	50 Class 1	2RC-240	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
						Pipe to Safe End	
						po to outo Elia	

This report includes all changes through addendum ONS2-057 The er is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval, outage 2 (EOC-22)

0					ee 2, 4tii iiiterva	a, outage 2 (EUC-22)	
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
ategory AUG		•					
O2.G14.1.0020		-					G14.001.02
2-PZR-WP63-7 Circumferential	50 Class 1	ISI-OCN2-002 B&W149771E	NDE-68	VT-2	CS-Inconel	1.185 / 1.000	The surface of the Pressurizer Sensing and Sampling Nozzle-to-Safe End Welds shall be examined (Z-W Quadrant). Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage." Inspect with item number G14.001.021.
Dissimilar							
				.	•	Nozzle Pc.30 to Safe End Pc.4	
O2.G14.1.0021							G14.001.02
2RC-206-6 Circumferential	50 Class 1	2RC-206	NDE-68	VT-2	SS-Inconel	1.250 / 1.000	Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar						Pipe to Safe End	
O2.G14.1.0022							G14.001.02
2-50-16-8A Circumferential	50 Class 1	2-50-16	NDE-68	VT-2	SS-Inconel	0.250 / 1.000	1 inch PZR vent nozzle SB-166 Nozzle to SS pipe weld. (Examine the PZR surface where the PZR Vent Nozzle and the PZR Head/Shell interface and also examine the Nozzle to SS Pipe weld.) Augmented Inspection Per Oconee response to BL-2004-01. Contact Jody Shuping for additional information on this examination. Bare Metal Visual Examinations are to be performed each refueling outage by a VT-2 qualified inspector. Acceptance criteria is "no evidence of borated water leakage."
Dissimilar							
	·					Pipe to Safe End	
O2.G2.1.0001							G02.001.005
2-PDB1-46	50 Class 1	ISI-OCN2-013 B&W146629E O-ISIN4-100A-2.1	NDE-690	UT	CS	2.500 / 3.500	40410 2B1 HPI Nozzle Pc.46. Perform UT on the nozzle inside radius (knuckle area). Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
		1 lck8302 v. 07/02/07				DQA Cat "C"	Oconee 2 7/18/2007 1:07:38 PM

This report includes all changes through addendum ONS2-057 Theorem is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval outage 2 (EOC-22)

				Ocone	ee 2, 4th Interva	youtage 2 (EOC-22)		
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category AUG								
O2.G2.1.0002				**				G02.001.005E
2-PDA2-46	50	ISI-OCN2-012 B&W146629E	NDE-690	UT	CS	2.500 / 3.500	40410 40350	2A2 Make-Up Nozzle Pc.46. Perform UT on the nozzle inside radius (knuckle area). Reference Section 7 of the
	Class 1	O-ISIN4-100A-2.1						ISI Plan, General Requirments. This schedule cannot be changed without Engineering approval.
O2.G2.1.0003								G02.001.005A
2-PDA1-46	50	ISI-OCN2-011 B&W146629E	NDE-690	UT	CS	2.500 / 3.500	40410 40350	2A1 Make-Up Nozzle Pc.46. Perform UT on the nozzle inside radius (knuckle area). Reference Section 7 of the
·	Class 1	O-ISIN4-100A-2.1						ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
O2.G2.1.0004							-	G02.001.005D
2-PDB2-46	50	ISI-OCN2-014	NDE-690	UT	CS	2.500 / 3.500	40410	2B2 HPI Nozzle Pc.46. Perform UT on the nozzle
		B&W146629E					40350	inside radius (knuckle area). Reference Section 7 of the ISI Plan, Genera1 Requirements. This schedule
	Class 1	O-ISIN4-100A-2.1						cannot be changed without Engineering approval.
O2.G2.1.0005								G02.001.006A
2-PDA1-11 Circumferential Dissimilar	50 Class 1	ISI-OCN2-011 B&W146629E O-ISIN4-100A-2.1	PDI-UT-10	UT	SS-CS	0.750 / 3.500	40416	2A1 Make-Up Nozzle Pc.46 to Safe End Pc.47. Perform UT on the nozzle to safe end weld. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval. 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.
						Nozzle to Safe End		
O2.G2.1.0006			 			- TOLLIO TO GATO LITO		G02.001.006E
2-PDA2-11	50	ISI-OCN2-012	PDI-UT-10	UT	SS-CS	0.750 / 3.500	40416	2A2 Make-Up Nozzle Pc.46 to Safe End Pc.47.
Circumferential	Class 1	B&W146629E O-ISIN4-100A-2.1		- '	33	2252.330		Perform UT on the nozzle to safe end weld. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval. This weld was cut out and welded back in EOC-20. The new weld is also listed as weld 22 on rev . 10 of iso 2RC-203.
Dissimilar								

Nozzle to Safe End

0					e 2, 4th interv	a-Sutage 2 (EOC-22)		
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category AUG								
O2.G2.1.0007							-	G02.001.006D
2-PDB2-11 Circumferential	50 Class 1	ISI-OCN2-014 B&W146629E O-ISIN4-100A-2.1	PDI-UT-10	UT	SS-CS	0.750 / 3.500	40416	2B2 HPI Nozzle Pc.46 to Safe End Pc.47. Perform UT on the nozzle to safe end weld. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
Dissimilar								
						Nozzle to Safe End		
O2.G2.1.0008								G02.001.006C
2-PDB1-11 Circumferential	50 Class 1	ISI-OCN2-013 B&W146629E O-ISIN4-100A-2.1	PDI-UT-10	UT	SS-CS	0.750 / 3.500	40416	2B1 HPI Nozzle Pc.46 to Safe End Pc.47. Perform UT on the nozzle to safe end weld. This weld was cut out and welded back in EOC-20. The new weld is also listed as weld 16 on rev . 8 of iso 2RC-202. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
Dissimilar								
						Nozzle to Safe End		
O2.G2.1.0009							***	G02.001.007C
2-PDB1-47	50 Class 1	ISI-OCN2-013 B&W146629E O-ISIN4-100A-2.1	PDI-UT-10	UT	SS	0.750 / 3.500	40416	Safe End Pc.47 adjoining HPI Nozzle 2B1. Perform UT on the Safe End base metal (between the nozzle to safe end weld and the safe end to pipe weld). Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
O2.G2.1.0010		·						G02.001.007D
2-PDB2-47	50 Class 1	ISI-OCN2-014 B&W146629E O-ISIN4-100A-2.1	PDI-UT-10	UT	SS	0.750 / 3.500	40416	Safe End Pc.47 adjoining HPI Nozzle 2B2. Perform UT on the Safe End base metal (between the nozzle to safe end weld and the safe end to pipe weld). Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
00.00.1.0011								000 004 0074
O2.G2.1.0011 2-PDA1-47	50 Class 1	ISI-OCN2-011 B&W146629E O-ISIN4-100A-2.1	PDI-UT-10	UT	SS	0.750 / 3.500	40416	G02.001.007A Safe End Pc.47 adjoining Make-Up Nozzle 2A1. Perform UT on the Safe End base metal (between the nozzle to safe end weld and the safe end to pipe weld). Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.

This report includes all changes through addendum ONS2-057 The per is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval outage 2 (EOC-22)

Summary Nu									
Component ID /		System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
ategory AU	<u>G</u>								
O2.G2.1.0012									G02.001.007E
2-PDA2-47	(50 Class 1	ISI-OCN2-012 B&W146629E O-ISIN4-100A-2.1	PDI-UT-10	UT	SS	0.750 / 3.500	40416	Safe End Pc.47 adjoining Make-Up Nozzle 2A2. Perform UT on the Safe End base metal (between the nozzle to safe end weld and the safe end to pipe weld). Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
O2.G2.1.0013	-					·			G02.001.008A
2RC-204-28 Circumferential		50 Class 1	2RC-204 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS	0.375 / 2.500	Component	Make-Up Nozzle 2A1. Perform UT on weld 2RC-204-28 and adjoining base metal out to weld 2RC-204-20 (at valve 2HP-127). Weld 2RC-204-18 was cut out and replaced with weld 2RC-204-28 during EOC-20. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval. Note: The inspection performed for this G02 item number will satisfy the requirements for G04.001.029.
							Safe End to Pipe		
O2.G2.1.0014									G02.001.008C
2RC-202-17 Circumferential	(50 Class 1	2RC-202 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS	0.375 / 2.500	Component	HPI Nozzle 2B1. Perform UT on weld 2RC-202-17 and adjoining base metal out to weld 2RC-202-19 (at valve 2HP-153). Reference Section 7 of the ISI Plan, General Requirements. Weld 2RC-202-1 was cut out and replaced with weld 2RC-202-17 during EOC-20. This schedule cannot be changed without Engineering approval. Note: The inspection performed for this G02 item number will satisfy the requirements for G04.001.001.
							Safe End to Pipe		
O2.G2.1.0015								_	G02.001.008E
2RC-203-21 Circumferential		50 Class 1	2RC-203 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS	0.375 / 2.500	Component	Make-Up Nozzle 2A2. Perform UT on weld 2RC-203-21 and adjoining base metal out to weld 2RC-203-3 (at valve 2HP-126). Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval. Weld 2RC-203-2 was cut out and replaced with weld 2RC-203-21 during EOC-20. Note: The inspection performed for this G02 item number will satisfy the requirements for G04.001.027.
							Safe End to Pipe		

				Ocone	e 2, 4th inter	outage 2 (EUC-22)		
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category AUG							•	
O2.G2.1.0016								G02.001.008E
2RC-205-1 Circumferential	50 Class 1	2RC-205 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS	0.375 / 2.500	Component	HPI Nozzle 2B2. Perform UT on weld 2RC-205-1 and adjoining base metal out to weld 2RC-205-3 (at valve 2HP-152). Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval. Note: The inspection performed for this G02 item number will satisfy the requirements for G04.001.004.
						Safe End to Pipe		
O2.G2.1.0017								G02.001.010E
2RC-203-3 Circumferential	50 Class 1	2RC-203 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS	0.375 / 2.500	Component	Make-Up Nozzle 2A2. Perform UT on weld 2RC-203-3 at valve 2HP-126. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval. Note: The inspection performed for this G02 item number will satisfy the requirements for G04.001.028.
						Pipe to Valve		
O2.G2.1.0018								G02.001.010C
2RC-202-19 Circumferential	50 Class 1	2RC-202 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS	0.375 / 2.500	Component	HPI Nozzle 2B1. Perform UT on weld 2RC-202-19 at valve 2HP-153. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval. Weld 2RC-202-3 was cut out and replaced with weld 2RC-202-19 during EOC-20. Note: The inspection performed for this G02 item number will satisfy the requirements for G04.001.003.
						Pipe to Valve		
O2.G2.1.0019								G02.001.010A
2RC-204-20 Circumferential	50 Class 1	2RC-204 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS	0.375 / 2.500	Component	Make-Up Nozzle 2A1. Perform UT on weld 2RC-204-20 at valve 2HP-127. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval. Note: The inspection performed for this G02 item number will satisfy the requirements for G04.001.030.
						Pipe to Valve		
O2.G2.1.0020								G02.001.010I
2RC-205-3 Circumferential	50 Class 1	2RC-205 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS	0.375 / 2.500	Component	HPI Nozzle 2B2. Perform UT on weld 2RC-205-3 at valve 2HP-152. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval. Note: The inspection performed for this G02 item number will satisfy the requirements for G04.001.006.
						Pipe to Valve		

Oconee 2, 4th Interval outage 2 (EOC-22)

					- 2, 4111 IIIICI V M	Julage 2 (LOC-22)	
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G2.1.0021							G02.001.011E
2A2 THERM-SLEEVE Circumferential	50 Class 1	ISI OCN2-012 B&W146629E O-ISIN4-100A-2.1	NDE-105	RT	SS	0.750 / 3.500	Make-Up Nozzle 2A2. Perform RT between the nozzle to safe end and safe end to pipe weld in the thermal sleeve expansion area as described in Procedure NDE-105. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
O2.G2.1.0022							G02.001.0110
2B1 THERM-SLEEVE Circumferential	50 Class 1	ISI OCN2-013 B&W146629E O-ISIN4-100A-2.1	NDE-105	RT	SS	0.750 / 3.500	HPI Nozzle 2B1. Perform RT between the nozzle to safe end and safe end to pipe weld in the thermal sleeve expansion area as described in Procedure NDE-105. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
O2.G2.1.0023							G02.001.011A
2A1 THERM-SLEEVE Circumferential	50 Class 1	ISI OCN2-011 B&W146629E O-ISIN4-100A-2.1	NDE-105	RT	SS	0.750 / 3.500	Make-Up Nozzle 2A1. Perform RT between the nozzle to safe end and safe end to pipe weld in the thermal sleeve expansion area as described in Procedure NDE-105. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
O2.G2.1.0024							G02.001.011E
2B2 THERM-SLEEVE Circumferential	50 Class 1	ISI OCN2-014 B&W146629E O-ISIN4-100A-2.1	NDE-105	RT	SS	0.750 / 3.500	HPI Nozzle 2B2. Perform RT between the nozzle to safe end and safe end to pipe weld in the thermal sleeve expansion area as described in Procedure NDE-105. Reference Section 7 of the ISI Plan, General Requirements. This schedule cannot be changed without Engineering approval.
O2.G4.1.0001							G04.001.001
2RC-202-17 Circumferential	51A Class 1	2RC-202 O-ISIN4-100A-2.1	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld &1" of base material (axial & circumferential). This weld was listed previously as 2-51A-39-90C until iso 2-51A-39 was redrawn. Reference Section 7 of the ISI Plan, General Requirements. Weld 2RC-202-1 was cut out and replaced with weld 2RC-202-17 during EOC-20. Note: The inspection performed for G02.001.008C will satisfy the requirements for this G04 inspection.
		÷				D: 1 0 (E 4	

Pipe to Safe End

Summary Num				Ocone Insp	e 2, 4th Inter	Autoutage 2 (EOC-22)	
Component ID / Type	System	ISO/DWG Numbers	Procedure	Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G4.1.0002							G04.001.000
2RC-202-19 Circumferential	51A Class 1	2RC-202 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld &1" of base material (axial & circumferential). This weld was listed previously as 2-51A-39-91 until iso 2-51A-39 was redrawn. Reference Section 7 of the ISI Plan, General Requirements. Weld 2RC-202-3 was cut out and replaced with weld 2RC-202-19 during EOC-20. Note: The inspection performed for G02.001.010C will satisfy the requirements for this G04 inspection.
						Pipe to Valve 2HP-153	
O2.G4.1.0003							G04.001.004
2RC-205-1 Circumferential	51A Class 1	2RC-205 O-ISIN4-100A-2.1	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld &1" of base material (axial & circumferential). This weld was listed previously as 2-51A-39-92A until iso 2-51A-39 was redrawn. Reference Section 7 of the ISI Plan, General Requirements. Note: The inspection performed for G02.001.008D will satisfy the requirements for this G04 inspection.
						Pipe to Safe-End	
O2.G4.1.0004							G04.001.006
2RC-205-3 Circumferential	51A Class 1	2RC-205 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld &1" of base material (axial & circumferential). This weld was listed previously as 2-51A-39-93 until iso 2-51A-39 was redrawn. Reference Section 7 of the ISI Plan, General Requirements. Note: The inspection performed for G02.001.010D will satisfy the requirements for this G04 inspection.
						Pipe to Valve 2HP-152	
O2.G4.1.0005							G04.001.007
2HP-218-18 Circumferential		2HP-218 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld &1" of base material (axial & circumferential). This weld was listed previously as 2-51A-27-73 until iso 2-51A-27 (2) was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
						Elbow to Pipe	
O2.G4.1.0006							G04.001.010
2HP-214-13 Circumferential	51A Class 1	2HP-214 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld &1" of base material (axial & circumferential). This weld was listed previously as 2-51A-27-108 until iso 2-51A-27 (3) was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
						Pipe to Elbow	

This report includes all changes through addendum ONS2-057 The per is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval, outage 2 (EOC-22)

				Ocone	e z, 4m nnem	anyoutage 2 (EUC-22)	_
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G4.1.0007						•	G04.001.01
2HP-214-15 Circumferential	51A Class 1	2HP-214 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). This weld was originally 2-51A-27-110. It was cut out during outage 15 and replaced as 2HP-214-15. Reference Section 7 of the ISI Plan, General Requirements.
						Pipe to Valve 2HP-488	
O2.G4.1.0008							G04.001.01
2RC-202-4 Circumferential	51A Class 1	2RC-202 O-ISIN4-101A-2.4	NDE-12	RT	SS	0.375 / 2.500	Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
						Valve 2HP-488 to Valve 2HP-1	153
O2.G4.1.0008							G04.001.013
2RC-202-4 Circumferential	51A Class 1	2RC-202 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
						Valve 2HP-488 to Valve 2HP-1	153
O2.G4.1.0009							G04.001.014
2RC-203-4 Circumferential	51A Class 1	2RC-203 O-ISIN4-101A-2.4	NDE-12	RT	SS	0.375 / 2.500	Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
						Valve 2HP-486 to Valve 2HP-1	126
						Valve 2HP-486 to Valve 2HP-1	126

				Ocone	e 2, 4th Intervi	woutage 2 (EOC-22)	
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
<u>Category</u> <u>AUG</u>							
O2.G4.1.0009							G04.001.014
2RC-203-4 Circumferential	51A Class 1	2RC-203 O-ISIN4-101A-2.4	NDE-995	UT	SS _.	0.375 / 2.500	Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
						Valve 2HP-486 to Valve 2HP	-126
O2.G4.1.0010							G04.001.015
2RC-204-4 Circumferential	51A Class 1	2RC-204 O-ISIN4-101A-2.4	NDE-12	RT	SS	0.375 / 2.500	Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
		·				Valve 2HP-487 to Valve 2HP	-127
O2.G4.1.0010			·	•			G04.001.015
2RC-204-4 Circumferential	51A Class 1	2RC-204 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
						Valve 2HP-487 to Valve 2HP	-127
O2.G4.1.0011							G04.001.016
2RC-205-4 Circumferential	51A Class 1	2RC-205 O-ISIN4-101'A-2.4	NDE-12	RT	SS	0.375 / 2.500	Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
•						Valve 2HP-489 to Valve 2HP	-152

				Ocone	e 2, 4th inter	va., outage 2 (EUC-22)	
Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G4.1.0011							G04.001.01
2RC-205-4 Circumferential	51A Class 1	2RC-205 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Use Procedure NDE-995 to perform a circumferential scan of the weld and half of an inch of base metal on each side of the weld as access permits. Use procedure NDE-12 to perform RT on 100% of the weld and a quarter of an inch of base metal on each side of the weld. See PIP # O-99-02157 and PIP # O-01-04673 for examination methods and area of coverage for this item number.
						Valve 2HP-489 to Valve 2HF	P-152
O2.G4.1.0012							G04.001.01
2HP-214-14 Circumferential	51A Class 1	2HP-214 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). This weld was listed previously as 2-51A-27-109 until iso 2-51A-27 (3) was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
		ANNO A LINE OF THE STATE OF THE				Elbow to Pipe	
O2.G4.1.0013							G04.001.01
2HP-216-7 Circumferential	51A Class 1	2HP-216 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). This weld was listed previously as 2-51A-30-51 until iso 2-51A-30 was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
						Pipe to Elbow	
O2.G4.1.0014							G04.001.01
2HP-216-8 Circumferential		2HP-216 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). This weld was listed previously as 2-51A-30-52 until iso 2-51A-30 was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
						Elbow to Pipe	
O2.G4.1.0015				•			G04.001.02
2HP-216-9 Circumferential	51A Class 1	2HP-216 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). This weld was listed previously as 2-51A-30-54 until iso 2-51A-30 was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
						Pipe to Valve 2HP-486	
O2.G4.1.0016							G04.001.02
2HP-217-10 Circumferential	51A Class 1	2HP-217 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). This weld was listed previously as 2-51A-30-28 until iso 2-51A-30 was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
						Pipe to Elbow	
Printed 7/18/2007	1:08:46 PM	1 lck8302 v. 07/02/07				SDQA Cat "C"	Oconee 2 7/18/2007 1:07:38 PM
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				Ocone	e 2, 4th Inter	var butage 2 (EOC-22)	
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category AUG							
O2.G4.1.0017				•			G04.001.022
2HP-217-11 Circumferential	51A Class 1	2HP-217 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). This weld was listed previously as 2-51A-30-29 until iso 2-51A-30 was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
						Elbow to Pipe	
O2.G4.1.0018		-					G04.001.023
2HP-217-12 Circumferential		2HP-217 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). This weld was listed previously as 2-51A-30-31 until iso 2-51A-30 was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
		•				Pipe to Valve 2HP-487	
O2.G4.1.0019		-					G04.001.024
2HP-218-20 Circumferential	51A Class 1	2HP-218 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). This weld was listed previously as 2-51A-27-79 until iso 2-51A-27 (2) was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
						Pipe to Elbow	
O2.G4.1.0020							G04.001.025
2HP-218-21 Circumferential	51A Class 1	2HP-218 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). This weld was listed previously as 2-51A-27-80 until iso 2-51A-27 (2) was redrawn. Reference Section 7 of the ISI Plan, General Requirements.
						Elbow to Pipe	
O2.G4.1.0021						<u> </u>	G04.001.026
2HP-218-22 Circumferential	51A Class 1	2HP-218 O-ISIN4-101A-2.4	NDE-995	UT	SS	0.375 / 2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, General Requirements.
						Pipe to Valve 2HP-489	
O2.G4.1.0022		····					G04.001.027
2RC-203-21	50	2RC-203	NDE-995	UT	SS	0.375 / 2.500	Component Inspect 100% of weld & 1" of base material (axial &
Circumferential	Class 1	B&W146629E O-ISIN4-100A-2.1					circumferential). Reference Section 7 of the ISI Plan, General Requirements. Weld 2RC-203-2 was cut out and replaced with weld 2RC-203-21 during EOC-20. Note: The inspection performed for G02.001.008B will satisfy the requirements for this G04 inspection.
						Safe End to Pipe	

Oconee 2, 4th Interv outage 2 (EOC-22) Summary Num Insp Cal Blocks Comments / Historical Data Component ID / Type Svstem ISO/DWG Numbers Procedure Rea Mat Sched Thick/Dia Category AUG O2.G4.1.0023 G04.001.028 2RC-203-3 50 2RC-203 NDF-995 UT SS 0.375 / 2.500 Component Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Circumferential B&W146629E Class 1 General Requirements. O-ISIN4-100A-2 1 Note: The inspection performed for G02.001.010B will satisfy the requirements for this G04 inspection. Pipe to Valve 2HP-126 O2.G4.1.0024 G04.001.029 2BC-204-28 50 2BC-204 NDF-995 UT SS 0.375 / 2.500 Component Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan. Circumferential Class 1 B&W146629E General Requirements. O-ISIN4-100A-2.1 Weld 2RC-204-18 was cut out and replaced with weld 2RC-204-28 during EOC-20. Note: The inspection performed for G02.001.008A will satisfy the requirements for this G04 inspection. Safe End to Pipe O2.G4.1.0025 G04.001.030 2RC-204-20 50 2RC-204 NDE-995 UT SS 0.375 / 2.500Component Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Circumferential Class 1 B&W146629E General Requirements. O-ISIN4-100A-2.1 Inspect this weld at the same time item number G02.001.010A is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection. Pipe to Valve 2HP-127 Category B-A O2.B1.30.0001 B01.030.001, B01.030.001A CS 2-RPV-WR19 50 ISI-OCN2-001 NDF-650 UT 12.000 / 167.630 Reactor Vessel Upper Shell Forging Pc. 86 to Flange Pc. 7. (B01.030.001) Inspect from Vessel OM-1201-454 CB-08-99 ID.(automated scan) -- (B01.030.001A) Inspect from Circumferential Class 1 Flange Surface. (manual scan) Shell to Flange <u>Category</u> B-D O2.B3.110.0001 B03.110.001 2-PZR-WP15 50 ISI-OCN2-002 NDF-820 UT CS 4.750 / 15.250 40394 Pressurizer Surge Nozzle Pc. 8 to Lower Head Pc. 6. OM-1201-456 Circumferential Class 1

Nozzle to Head

B&W149768F

			Insp				
System	ISO/DWG Numbers	Procedure		Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
							B03.110.00
50	ISI-OCN2-002	NDE-640	UT	CS	4.750 / 15.250	40394	Pressurizer Surge Nozzle Pc. 8 to Lower Head Pc. 6.
Class 1	OM-1201-456						
	B&W149768E						
					Nozzle to Head		
							B03.110.00
50	ISI-OCN2-002	PDI-UT-7	UT	CS	6.187 / 5.750		Pressurizer Sampling Nozzle Pc. 30 to Upper Shell
	OM-1201-456					50470	Course Pc. 1. W-X Quadrant.
Class 1							
	B&W149771E						•
	·				Nozzle to Shell		
						,	B03.110.00
50	ISI-OCN2-002	NDE-820	UT	CS	6.187 / 5.750	40338	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell
Class 1	OM-1201-456						Course Pc. 1. W-X Quadrant.
	B&W149771E						
					Nozzle to Shell		
	,		-		1 2 12 11 11 21		B03.110.00
50	ISI-OCN2-002	NDE-640	UT	CS	6.187 / 5.750	40338	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell
Class 1	OM-1201-456						Course Pc. 1. W-X Quadrant.
	B&W149771E						
					Nozzle to Shell		
					NOZZIE IO SHEII	-	B03.110.00
50	ISLOCNS.003	NDE-820	LIT	CS	6 187 / 5 750	40338	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell
		NDL-020	O1	03	0.76773.730	40000	Course Pc. 1. Y-Z Quadrant.
Oldoo							
					Norrio to Chall		
					Nozzie to Sileii		P02 110 0
E0.	ICI OCNO 000	NDE 640	LIT	CC	£ 107 / £ 750	40000	B03.110.0
		NDE-040	UI	C5	0.18775.750	40338	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell Course Pc. 1. Y-Z Quadrant.
Class							Course Fe. 1. F. Z. Quadrani.
	D&W (49771L	•					
					Nozzle to Shell	*	500 440 0
	101.00N0.000	NDE 046	UT	60	0 107 / 5 750	40000	B03.110.0
		NDE-640	UI	CS	6.18//5./50	40338	Pressurizer Sampling Nozzle Pc. 30 to Upper Shell Course Pc. 1. Z-W Quadrant.
Class 1	OM-1201-456 B&W149771E						Course FC. 1. 2-99 Quaurant.
	DUTTITUTIL						
					Nozzle to Shell		
	50 Class 1 50 Class 1 50 Class 1 50 Class 1 50 Class 1	Class 1 OM-1201-456	50 ISI-OCN2-002 NDE-640 Class 1 OM-1201-456	System ISO/DWG Numbers Procedure Req	System ISO/DWG Numbers Procedure Req Mat	System ISO/DWG Numbers Procedure Req Mat Sched Thick/Dia	System ISO/DWG Numbers Procedure Req Mat Sched Thick/Dia Cal Blocks

This report includes all changes through addend

dum ONS2-057	The ser is responsible for verifying this report against the issued plan.
Oconee 2, 4th li	nterval, outage 2 (EOC-22)

		_,					_
Cal Blocks	Sched Thick/Dia	Mat		Procedure	ISO/DWG Numbers	System	Summary Num Component ID / Type
							Category B-D
m.r.							O2.B3.110.0008
40338	6.187 / 5.750	CS	UT	NDE-820	ISI-OCN2-002	50	2-PZR-WP26-6
							Circumferential
					B&W149771E		
	Nozzle to Shell						
							O2.B3.120.0001
40394	4.750 / 13.250	CS	UT	NDE-3620	ISI-OCN2-002	50 I	2-PZR-WP15
					B&W149768E	Class 1	
	Nozzle to Head						
							O2.B3.120.0006
40338	2.531 / 5.750	CS	UT	NDE-680	ISI-OCN2-002	50 I	2-PZR-WP26-4
50237E					B&W149771E		
						Class 1	
	Nozzle to Shell						
							O2.B3.120.0007
40338	2.531 / 5.750	CS	UT	NDE-680			2-PZR-WP26-5
50237E					B&W149771E		
						Class 1	
							•
	Nozzie to Shell		 				
		•			10. 00.10.000	'	O2.B3.120.0008
	2.531 / 5.750	CS	UT	NDE-680			2-PZR-WP26-6
50237E					B&W149771E	Class 1	•
	Nozzle to Shell						
	. ISLAND TO OTHER						Category B-G-1
	_						O2.B6.40.0001
40387	12.500 / 200.000	CS	UT	NDE-640	B&W151997E	50 (2-RPV-LIGAMENTS
	40394 40338 50237E	Sched Thick/Dia Cal Blocks 6.187 / 5.750 40338 Nozzle to Shell 4.750 / 13.250 40394 Nozzle to Head 2.531 / 5.750 40338 50237E Nozzle to Shell 2.531 / 5.750 40338 50237E	Mat Sched Thick/Dia Cal Blocks CS 6.187 / 5.750 40338 Nozzle to Shell CS 4.750 / 13.250 40394 Nozzle to Head CS 2.531 / 5.750 40338 / 50237E Nozzle to Shell CS 2.531 / 5.750 40338 / 50237E Nozzle to Shell CS 2.531 / 5.750 40338 / 50237E	UT CS 6.187 / 5.750 40338 Nozzle to Shell	Procedure Req Mat Sched Thick/Dia Cal Blocks NDE-820 UT CS 6.187 / 5.750 40338 Nozzle to Shell NDE-3620 UT CS 4.750 / 13.250 40394 NDE-680 UT CS 2.531 / 5.750 40338 50237E NDE-680 UT CS 2.531 / 5.750 40338 50237E NDE-680 UT CS 2.531 / 5.750 40338 50237E NDE-680 UT CS 2.531 / 5.750 40338 50237E	Insp	System ISO/DWG Numbers Procedure Req Mat Sched Thick/Dia Cal Blocks

Oconee 2, 4th Interval Jutage 2 (EOC-22)

Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category B-G-2							
O2.B7.50.0005							
2HP-217-2A1-FLG	51A Class 1	2HP-217 O-ISIN4-101A-2.4	NDE-62	VT-1	CS	0.000 / 1.000	Flange Bolting on 2.5 inch piping flange located on the 2A1 HPI line. Flange is located on weld iso 2HP-217.
			•			Class 1 Bolting (B-G-2)	
O2.B7.50.0006						•	
2HP-216-2A2-FLG	51A Class 1	2HP-216 O-ISIN4-101A-2.4	NDE-62	VT-1	CS	0.000 / 1.000	Flange Bolting on 2.5 inch piping flange located on th 2A2 HPI line. Flange is located on weld iso 2HP-216.
						Class 1 Bolting (B-G-2)	
O2.B7.50.0007							
2HP-214-2B1-FLG	51A Class 1	2HP-214 O-ISIN4-101A-2.4	NDE-62	VT-1	CS	0.000 / 1.000	Flange Bolting on 2.5 inch piping flange located on the 2B1 HPI line. Flange is located on weld iso 2HP-214.
						Class 1 Bolting (B-G-2)	
O2.B7.50.0008							
2HP-218-2B2-FLG	51A Class 1	2HP-218 O-ISIN4-101A-2.4	NDE-62	VT-1	CS	0.000 / 1.000	Flange Bolting on 2.5 inch piping flange located on the 2B2 HPI line. Flange is located on weld iso 2HP-218.

Class 1 Bolting (B-G-2)

Oconee 2, 4th Interval, Jutage 2 (EOC-22)

Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category B-J							
O2.B9.11.0002							B09.011.
2-PSL-9	50	ISI-OCN2-015	NDE-35	PT	SS	1.000 / 10.000	Pressurizer Surge Piping. Elbow Pc.
Circumferential	Class 1	O-ISIN4-100A-2.2					Procedure NDE-600 uses the compor

B09.011.002, B09.011.002A

Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 85. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.

Weld 2-PSL-9 was examined during 2EOC-22(outage 2) and was limited due to weld overlay performed on an adjoining weld. The examinations on weld 2-PSL-9 during 2EOC-23 will be performed in order to achieve the required coverage (> than 90%). Phased Array UT or RT may be options or a UT examination using PDI-UT-2 or NDE-660 may be performed if some of the Weld Overlay is removed from the examination area for weld 2-PSL-9. We don't know until summer of 2008 whether we can UT using Phased Array; therefore we are scheduling both RT and UT exams for 2EOC-23. It is our intent not to perform RT if we can perform phased array UT. For Code percentage purposes, in outage 2EOC-22, Partial credit (1/2 credit) was taken for weld 2-PSL-9 and in outage 2EOC-23, 1/2 credit will be taken for which ever exam (UT or RT) is performed on this weld.

Stress Weld

Elbow to Pipe

Oconee	2,	4th	Interva.	Sutage	2	(EOC-22)
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				550110	-, m.c.	tan outage E (EGG EE)		
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category B-J								
O2.B9.11.0002			•					B09.011.002, B09.011.002A
2-PSL-9	50	ISI-OCN2-015 O-ISIN4-100A-2.2	PDI-UT-2	UT	SS	1.000 / 10.000	Component PDI-UT-2-O	Pressurizer Surge Piping. Elbow Pc. 80 to Pipe Pc. 85. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of
Circumferential	Class 1							procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.
Stragg Wold								Weld 2-PSL-9 was examined during 2EOC-22(outage 2) and was limited due to weld overlay performed on an adjoining weld. The examinations on weld 2-PSL-9 during 2EOC-23 will be performed in order to achieve the required coverage (> than 90%). Phased Array UT or RT may be options or a UT examination using PDI-UT-2 or NDE-660 may be performed if some of the Weld Overlay is removed from the examination area for weld 2-PSL-9. We don't know until summer of 2008 whether we can UT using Phased Array; therefore we are scheduling both RT and UT exams for 2EOC-23. It is our intent not to perform RT if we can perform phased array UT. For Code percentage purposes, in outage 2EOC-22, Partial credit (½ credit) was taken for weld 2-PSL-9 and in outage 2EOC-23, ½ credit will be taken for which ever exam (UT or RT) is performed on this weld.
Stress Weld						Elbow to Pipe		
O2.B9.11.0022								B09.011.022, B09.011.022A
2RC-279-92V Circumferential	50 Class 1	ISI-OCN2-006 2RC-279 O-ISIN4-100A-2.1	NDE-25	MT	CS	3.500 / 36.000		Steam Generator 2B Inlet Nozzle to Hot Leg. Weld 92V is listed on weld iso 2RC-279 but drawing ISI-OCN2-006 is listed as the iso to show where the weld is located on the 2B Hot Leg Piping Loop.
Terminal End								
						Nozzle to Pipe		
O2.B9.11.0022								B09.011.022, B09.011.022A
2RC-279-92V Circumferential	50 Class 1	ISI-OCN2-006 2RC-279 O-ISIN4-100A-2.1	NDE-600	UT	. CS	3.500 / 36.000	Component	Steam Generator 2B Inlet Nozzle to Hot Leg. Weld 92V is listed on weld iso 2RC-279 but drawing ISI-OCN2-006 is listed as the iso to show where the weld is located on the 2B Hot Leg Piping Loop.
Terminal End						N. J. J. D.		
						Nozzle to Pipe		

					e 2, 4th inter	val, outage 2 (EOC-22)	
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category B-J						•	
O2.B9.11.0029							B09.011.029, B09.011.029
2SGB-W2 Circumferential	50 Class 1	ISI-OCN2-010 OM 201.S0033.001 O-ISIN4-100A-2.1	NDE-25	MT	CS	3.500 / 33.500	Steam Generator 2B Outlet Nozzle to Pump 2B2 Suction Piping. Weld 2SGB-W2 is listed on drawing OM 201.S0033.001 but drawing ISI-OCN2-010 is listed as the iso to show where the weld is located on the 2B2 Suction Piping Loop.
Terminal End							
						Nozzle to Pipe	
O2.B9.11.0029							B09.011.029, B09.011.029
2SGB-W2 Circumferential	50 Class 1	ISI-OCN2-010 OM 201.S0033.001 O-ISIN4-100A-2.1	NDE-600	UT	CS	3.500 / 33.500	Component Steam Generator 2B Outlet Nozzle to Pump 2B2 Suction Piping. Weld 2SGB-W2 is listed on drawing OM 201.S0033.001 but drawing ISI-OCN2-010 is listed as the iso to show-where the weld is located on the 2B2 Suction Piping Loop.
Terminal End							
						Nozzle to Pipe	
O2.B9.11.0036							B09.011.036, B09.011.036
2-PSL-1 Circumferential . Stress Weld	50 Class 1	ISI-OCN2-015 O-ISIN4-100A-2.2	NDE-35	PT	SS	1.000 / 10.000	Pressurizer Surge Piping. Surge Nozzle Safe End Pc. 37 to Elbow Pc. 80. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used then the calibration block listed shall be used.
Terminal End							
reminal End						0-4- 5-44- 50	
						Safe End to Elbow	
O2.B9.11.0036 2-PSL-1	50	ISI-OCN2-015 O-ISIN4-100A-2.2	PDI-UT-2	UT	SS	1.000 / 10.000	B09.011.036, B09.011.036 Component Pressurizer Surge Piping. PDI-UT-2-O Surge Nozzle Safe End
Circumferential	Class 1						Pc. 37 to Elbow Pc. 80. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used then the calibration block listed shall be used.
Stress Weld							
Terminal End						0.45 5.44. 511	
						Safe End to Elbow	

Oconee .	2,	4th	Interva-	outage	2	(EOC-22)
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					2, 417 11107	vui, odiage 2 (200-22)		
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category B-J								
O2.B9.11.0059		10						B09.011.059, B09.011.059A
2-PDB1-1 Circumferential	50 Class 1	ISI-OCN2-013 OM-1201-966	NDE-35	PT	SS	2.330 / 33.500		Reactor Coolant Pump 2B1 Discharge Piping. RCP 2B1 Casing to Safe End Pc. 49. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. Procedure NDE-830 and either Cal Block 50386 or Cal Block 50214 are to be used only for a supplemental UT performed from the pump side. The supplemental exam is being performed as requested by Jim McArdle which will be used to justify limited coverage from the code exam (performed using NDE-600 or PDI-UT-2).
Stress Weld								
Terminal End								
						Casing to Safe End		
O2.B9.11.0059								B09.011.059, B09.011.059A
2-PDB1-1	50	ISI-OCN2-013 OM-1201-966	NDE-600	UT	SS	2.330 / 33.500	Component 40397 50386	Reactor Coolant Pump 2B1 Discharge Piping. RCP 2B1 Casing to Safe End Pc. 49. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-
Circumferential	Class 1			,				2 is used, then the calibration block listed shall be used. Procedure NDE-830 and either Cal Block 50386 or Cal Block 50214 are to be used only for a supplemental UT performed from the pump side. The supplemental exam is being performed as requested by Jim McArdle which will be used to justify limited coverage from the code exam (performed using NDE-600 or PDI-UT-2).
Stress Weld								
Terminal End								
		· · · · · · · · · · · · · · · · · · ·				Casing to Safe End		
O2.B9.11.0059								B09.011.059, B09.011.059A
2-PDB1-1	50	ISI-OCN2-013 OM-1201-966	NDE-830	UT	SS	2.330 / 33.500	Component 40397 50214	Reactor Coolant Pump 2B1 Discharge Piping. RCP 2B1 Casing to Safe End Pc. 49. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-
Circumferential	Class 1							2 is used, then the calibration block listed shall be used. Procedure NDE-830 and either Cal Block 50386 or Cal Block 50214 are to be used only for a supplemental UT
								performed from the pump side. The supplemental exam is being performed as requested by Jim McArdle which will be used to justify limited coverage from the code exam (performed using NDE-600 or PDI-UT-2).
Stress Weld								
Terminal End						0 0		
						Casing to Safe End		

				Ocone	e 2, 4th Inter	var, butage 2 (EOC-22)		
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
<u>Category</u> B-J								
O2.B9.11.0060								B09.011.060, B09.011.060A
2-PDB1-3 Circumferential	50 Class 1	ISI-OCN2-013 OM-1201-966	NDE-25	MT	CS	2.330 / 33.500		Reactor Coolant Pump 2B1 Discharge Piping. Elbow Pc. 53 to Pipe Pc. 44. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
Stress Weld								
						Elbow to Pipe		
O2.B9.11.0060								B09.011.060, B09.011.060A
2-PDB1-3 Circumferential	50 Class 1	ISI-OCN2-013 OM-1201-966	NDE-600	UT	CS	2.330 / 33.500	Component 40350	Reactor Coolant Pump 2B1 Discharge Piping. Elbow Pc. 53 to Pipe Pc. 44. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
Stress Weld								
						Elbow to Pipe		
O2.B9.11.0061						· · · · · · · · · · · · · · · · · · ·		B09.011.061, B09.011.061A
2RC-279-94V Circumferential	50 Class 1	ISI-OCN2-010 2RC-279 O-ISIN4-100A-2.1	NDE-25	MT	CS	3.500 / 33.500		Reactor Coolant Pump 2B2 Suction Piping. Pipe to Elbow Pc. 45. Weld 94V is listed on weld iso 2RC-279 but drawing ISI-OCN2-010 is listed as the iso to show where the weld is located on the 2B2 Suction Piping Loop. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
Stress Weld								
						Pipe to Elbow	_	
O2.B9.11.0061 2RC-279-94V Circumferential	50 Class 1	ISI-OCN2-010 2RC-279 O-ISIN4-100A-2.1	NDE-600	UT	CS	3.500 / 33.500	Component	B09.011.061, B09.011.061A Reactor Coolant Pump 2B2 Suction Piping. Pipe to Elbow Pc. 45. Weld 94V is listed on weld iso 2RC-279 but drawing ISI-OCN2-010 is listed as the iso to show where the weld is located on the 2B2 Suction Piping Loop. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
Stress Weld								
						Pipe to Elbow		

Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks C	Comments / Historical Data
Category B-J								
O2.B9.11.0066								B09.011.102, B09.011.102
2-51A-30-1 Circumferential		2-51A-30 O-ISIN4-101A-2.4	NDE-35	PT	SS	0.531 / 4.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.
						Valve 2HP-194 to Pipe		
O2.B9.11.0066								B09.011.102, B09.011.102
2-51A-30-1 Circumferential	51A Class 1	2-51A-30 O-ISIN4-101A-2.4	NDE-600	ŃΤ	SS	0.531 / 4.000	PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the
Circumerential	Class							calibration block listed shall be used.
						Valve 2HP-194 to Pipe		
O2.B9.21.0001					•			B09.021.00
2-50-7-8 Circumferential		2-50-7 (2) O-ISIN4-100A-2.1	NDE-35	PT	SS-Inconel	0.281 / 1.500		Reactor Coolant Pump 2B2 Suction Drain Piping. Code Case N-624
Dissimilar								
						Elbow to Nozzłe		
O2.B9.21.0002					At-1-72			B09.021.002
2-50-7-14 Circumferential		2-50-7 (1) O-ISIN4-100A-2.1	NDE-35	PT	SS-Inconel	0.281 / 1.500		Reactor Coolant Pump 2A2 Suction Drain Piping. Code Case N-624
Dissimilar								
Stress Weld								
						Nozzle to Elbow		
O2.B9.21.0003						· ·	•	B09.021.003
2-50-7-29 Circumferential	50 Class 1	2-50-7 (1) O-ISIN4-100A-2.1	NDE-35	PT	SS-Inconel	0.281 / 1.500		Reactor Coolant Pump 2A1 Suction Drain Piping. Code Case N-624
Dissimilar								
Stress Weld								
						Nozzle to Elbow		
O2.B9.21.0006						· · · · · · · · · · · · · · · · · · ·		B09.021.00
2-PDB1-11	50	ISI-OCN2-013	NDE-35	PT	SS-CS	0.750 / 3.500		Reactor Coolant Pump 2B1 Discharge Piping. Nozzle
Circumferential	Class 1	B&W146829E						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 16 on rev . 8 of iso 2RC-202.
Dissimilar								
Stress Weld								
						Nozzle to Safe End		

Insp Reg Mat Sched Thick/Dia Cal Blocks Comments / Historical Data	
Req Mat Sched Thick/Dia Cal Blocks Comments / Historical Data	
E	B09.021.
PT SS 0.375 / 2.500 Pressurizer Spray Piping. Tee Pc. 106 to Va	106 to Valve
Pc. 111.	
Tee to Valve 2RC-001	
E	B09.021.
PT SS 0.375 / 2.500 Pressurizer Spray Piping. Pipe Pc. 92 to Elb	92 to Elbow
Pc. 98.	
Pipe to Elbow	
E	B09.021.
PT SS 0.375 / 2.500 Pressurizer Spray Piping.	
Pipe Pc. 93 to Pressurizer Spray Nozzle Pc.	ozzle Pc. 51.
Pipe to Nozzle	
E	B09.021.
PT SS 0.438 / 3.000 Letdown Cooler 2B.	
Inlet Nozzle to Elbow Weld.	
Elbow to Nozzle	
E	B09.021.
PT SS 0.438 / 3.000 Letdown Cooler 2B.	
Outlet Nozzle to Elbow Weld.	
Nozzle to Elbow	
Ε	B09.021.
PT SS 0.375 / 2.500 This weld was listed previously as 2-51A-39-	2-51A-39-46 until i
2-51A-39 was redrawn as 2RC-204 and was weld number 2RC-204-3. Revision 4 to this i weld 3 and reassigned weld number 20 for th Inspect with Item Number G02.001.010A.	4 and was given 4 to this iso. dele or 20 for this weld.

				Ocone	e 2, 4th Inter	va., outage 2 (EOC-22)		
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category B-J								
O2.B9.21.0050								B09.021.127
2-51A-30-32	51A	2-51A-30	NDE-35	PT	SS	0.375 / 2.500		
Circumferential	Class 1	O-ISIN4-101A-2.4						
						Reducer to Pipe		
O2.B9.21.0053								B09.021.130
2-51A-35-24	51A	2-51A-35 (1)	NDE-35	PT	SS	0.375 / 2.500		
Circumferential	Class 1	O-ISIN4-101A-2.1						
						Elbow to Dina		
OO DO 04:0004				-		Elbow to Pipe		D00 031 001 D00 031 001 A
O2.B9.31:0001	50	ICL OCNO OOC	NDE-25	ΜT	CS	2.875 / 23.000		B09.031.001, B09.031.001A
2-PHB-16 Branch	50 Class 1	ISI-OCN2-006 B&W149768E	NDE-25	IVII	US	2.875 / 23.000		Steam Generator 2B Hot Leg to Reactor Vessel. Pressurizer Surge Nozzle Pc. 25 to Pipe Pc. 32. NPS
DIANCII	Class	B&W 149700E						of Branch Piping is 10 inches. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
Stress Weld							-	is used, then the cambration block listed shall be used.
Stress Weld						Nozzle to Pipe		
00.00.01.0001	-					Nozzie to ripe		B09.031.001, B09.031.001A
O2.B9.31.0001	50	ICI OCNO OOC	DDI UT 1	UT	00	0.075 / 00.000	0	
2-PHB-16	50	ISI-OCN2-006 B&W149768E	PDI-UT-1	UT	CS	2.875 / 23.000	Component 40350	Steam Generator 2B Hot Leg to Reactor Vessel. Pressurizer Surge Nozzle Pc. 25 to Pipe Pc. 32. NPS
Branch	Class 1	DAVV 149700L					40330	of Branch Piping is 10 inches. Procedure NDE-600
Dianon	Old35 T							uses the component for calibration. Procedure PDI-UT- 1 may be used in lieu of procedure NDE-600. If PDI-UT- 1 is used, then the calibration block listed shall be used.
Stress Weld								
						Nozzle to Pipe		
O2.B9.31.0002						1102210 to 1 1po		B09.031.002, B09.031.002A
2-PHA-16	50	ISI-OCN2-005	NDE-600	UT	CS	2.875 / 25.000	Component	Steam Generator 2A Hot Leg to Reactor Vessel.
		B&W146330E					40350	Decay Heat Nozzle Pc. 34 to Pipe Pc. 32. NPS of
Branch	Class 1							Branch Piping is 12 inches. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used. MT or PT or a combination of the two methods together are exceptable to meet the surface examination requirements.
Stress Weld								
						Nozzie to Pipe		

				Ocone	e 2, 4th Interi	outage 2 (EOC-22)			
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data	
Category B-K									
O2.B10.10.0013	_	OM 001 2107	NDE 05	NAT.	CC.	0.000 / 0.000		Latter Coal COC Coast	B10.010.01
2-LDCB-SUPPORT	Class 1	OM-201-3107 O-ISIN4-101A-2.1 1-34097-2	NDE-25	MΤ	CS	0.000 / 0.000		Letdown Cooler 2B Support.	
						Pc.12 to Casing Shell Pc.8			
Category B-L-1									
O2.B12.10.0001									B12.010.00
2RCP-2A1		ISI-OCN2-007	NDE-65	VT-1	SS	0.000 / 68.000		Reactor Coolant Pump 2A1 Casing Weld.	
Circumferential	Class 1	OM-1201D-0005 OM-1201-0001							
						Casing to Casing			
Category C-A									
O2.C1.10.0003									C01.010.00
2-LDFTRA-SH-FL	51B	OM-201-0128	NDE-35	PT	SS	0.109 / 0.000		Letdown Filter 2A.	
Circumferential	Class 2	O-ISIN4-101A-2.2							
		OM 201-129							
				<u>.</u> .		Shell to Flange			
O2.C1.20.0003									C01.020.00
2-LDFTRA-HD-SH-1	51B	OM-201-0128	NDE-35	PT	SS	0.187 / 0.000		Letdown Filter 2A.	
Circumferential	Class 2	O-ISIN4-101A-2.2 OM 201.129				•			
						Upper Head to Shell			
O2.C1.20.0004	n-1								C01.020.00
2-LDFTRA-HD-SH-2	51B	OM-201-0128	NDE-35	РΤ	SS.	0.187 / 0.000		Letdown Filter 2A.	
Circumferential	Class 2	O-ISIN4-101A-2.2							
		OM 201-129					•		
						Lower Head to Shell			
O2.C1.20.0005									C01.020.00
2-LST-HD-SH-1		OM 201-63	NDE-3630	UT	SS	0.375 / 96.000	50469	Letdown Storage Tank Upper Head to She	ell.
Circumferential	Class 2	O-ISIN4-101A-2.2 OM 201-64							
		OW 201-04				Head to Ohalf			
00.04.00.0000						Head to Shell			001.000.00
O2.C1.20.0006	E 1 A	OM 201 62	NDE-3630	HT	SS	. 0.375 / 96.000	50469	Latdown Storago Tank Lawer Lland to Cha	C01.020.00
2-LST-HD-SH-2 Circumferential	51A Class 2	OM 201-63 O-ISIN4-101A-2.2	NDE-3030	UT	55	. 0.375790.000		Letdown Storage Tank Lower Head to She	:II.
5daminoromaa	0.000 E	OM 201-64					•		
				•		Head to Shell			
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					c 2, 407 miles vi		
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category C-C							
O2.C3.10.0003							C03.010.00
2-LDFTR-A	=	OM-201-0128 O-ISIN4-101A-2.1	NDE-35	PT	NA	0.250 / 0.000	Letdown Filter 2A Support Leg Attachments (3 legs). Only required to inspect one of the attachments, inspector shall identify which attachment was examined for successive interval exams.
O2.C3.10.0005							C03.010.00
2-LS-TANK		OM 201-63 O-ISIN4-101A-2.2	NDE-35	PT	SS	0.500 / 0.000	Letdown Storage Tank (4 Support Legs)
						Plate to Shell	
O2.C3.20.0008		·					C03.020.014
2-03-0-1479A-H1B	03	0-1490B-2(S)	NDE-25	MT	NA	0.280 / 14.000	Calculation No. OSC-1316-06(Vol. A). Inspect with
Rigid Support	Class 2	O-ISIN4-121B-2.3 2-03-06/sht.3					F01.020.011.
O2.C3.20.0010							C03.020.02
2-14B-0-1479A-H1 Rigid Restraint	14B Class 2	2-14-14/sht.1 O-ISIN4-124B-2.2	NDE-25	ΜT	NA	0.216 / 6.000	Calculation No. OSC-1325-06. Inspect with F01.021.026.
O2.C3.20.0012							C03.020.024
2-14B-0-1479A-H2 Rigid Restraint	_	2-14-13/sht.1 O-ISIN4-124B-2.2	NDE-25	MT	NA	0.216 / 8.000	Calculation No. OSC-1325-06. Inspect with F01.021.025.
O2.C3.20.0030							C03.020.05
2-54A-3-0-1439B-H13 Rigid Restraint		2-54-03/sht.1 O-ISIN4-103A-2.1	NDE-35	PT	NA	0.125 / 8.000	Calculation No. OSC-496. Inspect with F01.021.071.
O2.C3.20.0033							C03.020.05
2-54A-3-0-1439B-H15 Rigid Support		2-54-03/sht.1 O-ISIN4-103A-2.1	NDE-35	PΤ	NA	0.125 / 8.000	Calculation No. OSC-496. Inspect with F01.020.094.

					e 2, 4th interv	Jutage 2	? (EUC-22)		•
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sch	ed Thick/Dia	Cal Blocks	Comments / Historical Data
Category C-F-1									
O2.C5.11.0004									C05.011.004, C05.011.004A
2LP-148-90 Circumferential		2LP-148 O-ISIN4-102A-2.2	NDE-35	PT	SS :	160	0.000 / 12.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was previously listed as 2-53A-8-19 until iso 2-53A-8(1) was redrawn. This weld was previously listed as 2LP-148-19 before it was deleted and remade as 2LP-148-90. (C05.011.004A) Note that the ID of the 12" end of the 12"x10" reducer is machined to 10.413" plus/minus .010". (Ref. isometric 2LP-148).
						Reducer	to Valve 2LP-18 (fo	rged)	
O2.C5.11.0004									C05.011.004, C05.011.004A
2LP-148-90 Circumferential	53A Class 2	2LP-148 O-ISIN4-102A-2.2	NDE-600	UT	SS	160	0.000 / 12.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the
Oncommercinia.	01433 2								calibration block fisted shall be used. This weld was previously listed as 2-53A-8-19 until iso 2-53A-8(1) was redrawn. This weld was previously listed as 2LP-148-19 before it was deleted and remade as 2LP-148-90. (C05.011.004A) Note that the ID of the 12" end of the 12"x10" reducer is machined to 10.413" plus/minus .010". (Ref. isometric 2LP-148).
						Reducer	to Valve 2LP-18 (fo	rged)	
O2.C5.11.0006									C05.011.006, C05.011.006A
2LP-150-36 Circumferential	53A Class 2	2LP-150 O-ISIN4-102A-2.3	NDE-35	PT	SS		1.125 / 10.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-53A-9-36 until iso 2-53A-9 was redrawn.
						Pipe to E	lbow		
O2.C5.11.0006									C05.011.006, C05.011.006A
2LP-150-36	53A	2LP-150 O-ISIN4-102A-2.3	NDE-600	UT	SS		1.125 / 10.000	Component PDI-UT-2-O	calibration. Procedure PDI-UT-2 may be used in lieu of
Circumferential	Class 2						·		procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-53A-9-36 until iso 2-53A-9 was redrawn.
		•				Pipe to E	lbow		

				Ocone	e 2, 4th inter	va r, o ulage 2 (EOC-22)		
Summary N Component ID		m ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks C	omments / Historical Data
Category C-	<u>F-1</u>							
O2.C5.11.0007	7							C05.011.007, C05.011.007A
2LP-150-37 Circumferentia		2LP-150 O-ISIN4-102A-2.3	NDE-35	PT	SS	1.125 / 10.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-53A-9-37 until iso 2-53A-9 was redrawn.
						Pipe to Elbow		
O2.C5.11.0007								C05.011.007, C05.011.007A
2LP-150-37 Circumferentia	, 53A	2LP-150 O-ISIN4-102A-2.3	NDE-600	. UT	SS	1.125 / 10.000	PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-53A-9-37 until iso 2-53A-9 was redrawn.
						Pipe to Elbow		
O2.C5.11.0008								C05.011.008, C05.011.008A
2LP-150-38 Circumferentia		2LP-150 O-ISIN4-102A-2.3	NDE-35	₽T	SS	1.125 / 10.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-53A-9-38 until iso 2-53A-9 was redrawn.
						Pipe to Elbow		
O2.C5.11.0008	3							C05.011.008, C05.011.008A
2LP-150-38 Circumferentia		2LP-150 O-ISIN4-102A-2.3	NDE-600	UT	SS	1.125 / 10.000	PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the
onounnerenta	0.000 2							calibration block listed shall be used. This weld was listed previously as 2-53A-9-38 until iso 2-53A-9 was redrawn.
						Pipe to Elbow		
O2.C5.11.0017	7							C05.011.017, C05.011.017A
2LP-189-12 Circumferentia		2LP-189 O-ISIN4-102A-2.2	NDE-35	PT	SS	1.000 / 10.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-53A-8-12 on iso 2-53A-8(1) until it was transferred to iso 2LP-189.
						Pipe to Elbow		

This report includes all changes through addendum ONS2-057 The seer is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval Jutage 2 (EOC-22)

					e 2, 4th inter	var Julage 2 (EUC-22)		
Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category C-F-1								
O2.C5.11.0017								C05.011.017, C05.011.017A
2LP-189-12		2LP-189 O-ISIN4-102A-2.2	NDE-600	UT	SS	1.000 / 10.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the
Circumferential	Class 2							calibration block listed shall be used. This weld was listed previously as 2-53A-8-12 on iso 2-53A-8(1) until it was transferred to iso 2LP-189.
						Pipe to Elbow		
O2.C5.11.0029								C05.011.029, C05.011.029A
2-53A-9-7 Circumferential		2-53A-9 O-ISIN4-102A-2.2	NDE-35	PT	SS	1.000 / 10.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.
						Pipe to Elbow		
O2.C5.11.0029								C05.011.029, C05.011.029A
2-53A-9-7		2-53A-9 O-ISIN4-102A-2.2	NDE-600	UT	SS	1.000 / 10.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the
Circumferential	Class 2							calibration block listed shall be used.
						Pipe to Elbow		
O2.C5.11.0030								C05.011.030, C05.011.030A
2-53A-9-8 Circumferential		2-53A-9 O-ISIN4-102A-2.2	NDE-35	PT	SS	1.000 / 10.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.
						Pipe to Elbow		
O2.C5.11.0030						· · · · · · · · · · · · · · · · · · ·		C05.011.030, C05.011.030A
2-53A-9-8	53A	2-53A-9 O-ISIN4-102A-2.2	NDE-600	UT	SS	1.000 / 10.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of
Circumferential	Class 2		-					procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.
						Pipe to Elbow		
O2.C5.11.0031								C05.011.031, C05.011.031A
2-53A-9-9 Circumferential	53A Class 2	2-53A-9 O-ISIN4-102A-2.2	NDE-35	PT	SS	1.000 / 10.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the
								calibration block listed shall be used.
				•		Pipe to Elbow		

				· -, ·····	Sutage 2 (EOC-22)		•	
System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data	
						,	· C05.011.031, C05.011.031A	
53A Class 2	2-53A-9 O-ISIN4-102A-2.2	PDI-UT-2	UT	SS	1.000 / 10.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.	
					Pipe to Elbow			
							C05.011.032, C05.011.032A	
		NDE-35	PT	SS	1.000 / 10.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-53A-8-11 on iso 2-53A-8(1) until it was transferred to iso 2LP-189.	
					Pipe to Elbow			
							C05.011.032, C05.011.032A	
53A	2LP-189 O-ISIN4-102A-2.2	NDE-600	UT	SS	1.000 / 10.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of	
Class 2	Class 2					-	procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-53A-8-11 on iso 2-53A-8(1) until was transferred to iso 2LP-189.	
					Pipe to Elbow			
							C05.011.072, C05.011.072A	
		NDE-35	PT	SS	0.432 / 6.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.	
					Pipe to Elbow			
							C05.011.072, C05.011.072A	
14B	2LPS-724 O-ISIN4-124B-2.2	NDE-600	UT	SS	0.432 / 6.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of	
Class 2							procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.	
					Pipe to Elbow			
							C05.011.073, C05.011.073A	
		NDE-35	PT	SS	0.432 / 6.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.	
					Elbow to Pipe			
	53A Class 2 53A Class 2 53A Class 2 14B Class 2	53A 2-53A-9 O-ISIN4-102A-2.2 Class 2 53A 2LP-189 Class 2 O-ISIN4-102A-2.2 Class 2 14B 2LPS-724 Class 2 O-ISIN4-124B-2.2 14B 2LPS-724 O-ISIN4-124B-2.2 Class 2	53A 2-53A-9 PDI-UT-2 Class 2 53A 2LP-189 NDE-35 Class 2 O-ISIN4-102A-2.2 Class 2 14B 2LPS-724 NDE-35 Class 2 14B 2LPS-724 NDE-600 O-ISIN4-124B-2.2 Class 2 14B 2LPS-724 NDE-600 O-ISIN4-124B-2.2 Class 2	System ISO/DWG Numbers Procedure Req 53A 2-53A-9 O-ISIN4-102A-2.2 PDI-UT-2 UT Class 2 NDE-35 PT 53A 2LP-189 O-ISIN4-102A-2.2 NDE-35 PT Class 2 O-ISIN4-102A-2.2 NDE-600 UT Class 2 O-ISIN4-124B-2.2 NDE-35 PT 14B 2LPS-724 O-ISIN4-124B-2.2 NDE-600 UT Class 2 O-ISIN4-124B-2.2 NDE-600 UT AB 2LPS-724 O-ISIN4-124B-2.2 NDE-600 UT	System ISO/DWG Numbers Procedure Req Mat 53A 2-53A-9 O-ISIN4-102A-2.2 PDI-UT-2 UT SS Class 2 Class 2 NDE-35 PT SS 53A 2LP-189 O-ISIN4-102A-2.2 NDE-600 UT SS Class 2 O-ISIN4-102A-2.2 NDE-35 PT SS 14B 2LPS-724 O-ISIN4-124B-2.2 NDE-600 UT SS 14B 2LPS-724 O-ISIN4-124B-2.2 NDE-600 UT SS Class 2 Class 2 NDE-600 UT SS	System ISO/DWG Numbers Procedure Req Mat Sched Thick/Dia	System ISO/DWG Numbers Procedure Req Mat Sched Thick/Dia Cal Blocks	

					Ucon	iee 2, 4th inte	erva i, outage 2 (EOC-22)		
	ary Num nt ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category	<u>C-F-1</u>								
O2.C5.11.	.0073							***************************************	C05.011.073, C05.011.073A
2LPS-724-		14B Class 2	2LPS-724 O-ISIN4-124B-2.2	NDE-600	UT	SS	0.432 / 6.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the
									calibration block listed shall be used.
							Elbow to Pipe		
O2.C5.21.	.0003								C05.021.003, C05.021.003A
2-RCP-FT	R2B-SH-1	51A	2-51A-28(1)	NDE-12	RT	SS	0.531 / 4.000		Reactor Coolant Pump Seal Supply Filter 2B. Pc. 10 to
Circumfere	ential	Class 2	OM-201-0473 O-ISIN4-101A-2.4						Pc. 1, (C05.021.003) Remove filter from housing to insure the system is drained prior to performing RT.
Terminal E	End								
							Filter Hub to Filter Housing		
O2.C5.21.	.0003								C05.021.003, C05.021.003A
2-RCP-FT	R2B-SH-1	51A	2-51A-28(1)	NDE-35	PT	SS	0.531 / 4.000		Reactor Coolant Pump Seal Supply Filter 2B. Pc. 10 to
Circumfere	ential	Class 2	OM-201-0473 O-ISIN4-101A-2.4						Pc. 1 (C05.021.003) Remove filter from housing to insure the system is drained prior to performing RT.
Terminal E	End								
							Filter Hub to Filter Housing		
O2.C5.21.	.0004								C05.021.004, C05.021.004A
2-RCP-FT	R2B-SH-2	51A	2-51A-28(1)	NDE-35	PT	· SS	0.531 / 4.000		Reactor Coolant Pump Seal Supply Filter 2B. Pc. 10 to
Circumfere	rential	Class 2	OM-201-0473 O-ISIN4-101A-2.4						Pc. 1 (C05.021.004) Remove filter from housing to insure the system is drained prior to performing RT.
Terminal E	End								
							Filter Hub to Filter Housing		
O2.C5.21.	.0021			• • • • • • • • • • • • • • • • • • • •					C05.021.029, C05.021.029A
2-51A-17-	147	51A	2-51A-17 (7)	NDE-35	PT	SS	0.531 / 4.000		Procedure NDE-600 uses the component for
Circumfere	rential *	Class 2	O-ISIN4-101A-2.3						calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.
							Valve 2HP-148 to Elbow		
O2.C5.21.	.0021								C05.021.029, C05.021.029A
2-51A-17-		51A Class 2	2-51A-17 (7) O-ISIN4-101A-2.3	NDE-600	UT	SS	0.531 / 4.000	Component PDI-UT-2-O	· · · · · · · · · · · · · · · · · · ·
Oncamien	ormai	Olass Z							calibration block listed shall be used.
							Valve 2HP-148 to Elbow		

•				Ocone	e 2, 4th Inter	va. outage 2 (EOC-22)		
Summary Num Component ID / T		ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category C-F-1								
O2.C5.21.0022			·					C05.021.030, C05.021.030A
2-51A-17-158 Circumferential		2-51A-17 (7) O-ISIN4-101A-2.3	NDE-35	PT	SS	0.531 / 4.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.
						Elbow to Elbow		
O2.C5.21.0022	. 4							C05.021.030, C05.021.030A
2-51A-17-158		2-51A-17 (7) O-ISIN4-101A-2.3	NDE-600	UT	SS	0.531 / 4.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the
Circumferential	Class 2							calibration block listed shall be used.
						Elbow to Elbow		
O2.C5.21.0023								C05.021.031, C05.021.031A
2-51A-27-25 Circumferential		2-51A-27 (1) O-ISIN4-101A-2.4	NDE-35	PT	SS	0.531 / 4.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used.
						Elbow to Pipe		
O2.C5.21.0023						· · · · · · · · · · · · · · · · · · ·		C05.021.031, C05.021.031A
2-51A-27-25 Circumferential	51A Class 2	2-51A-27 (1) O-ISIN4-101A-2.4	NDE-600	UT	SS	0.531 / 4.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the
								calibration block listed shall be used.
						Elbow to Pipe		
O2.C5.21.0024		0.10.000	ND = 45		-			C05.021.032, C05.021.032A
2HP-220-9 Circumferential		2HP-220 · O-ISIN4-101A-2.4	NDE-35	PT · ·	SS	0.674 / 4.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-51A-27-41AA until iso 2-51A-27(1) was redrawn.
						Valve 2HP-27 to Pipe		
O2.C5.21.0024	*****						-	C05.021.032, C05.021.032A
2HP-220-9	51A	2HP-220 O-ISIN4-101A-2.4	NDE-600	UT	SS	0.674 / 4.000	Component PDI-UT-2-O	
Circumferential	Class 2							procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-51A-27-41AA until iso 2-51A-27(1) was redrawn.
						Valve 2HP-27 to Pipe		

				Ucone	e 2, 4th inter	van Sutage 2 (EUC-22)		
Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category C-F-1								
O2.C5,21.0025							-	C05.021.033, C05.021.033A
2HP-220-14 Circumferential	51A Class 2	2HP-220 O-ISIN4-101A-2.4	NDE-35	PT	SS	0.674 / 4.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-51A-27-41C until iso 2-51A-27(1) was redrawn.
						Tee to Pipe		
O2.C5.21.0025								C05.021.033, C05.021.033A
2HP-220-14 Circumferential	51A Class 2	2HP-220 O-ISIN4-101A-2.4	NDE-600	UT	SS	0.674 / 4.000	Component PDI-UT-2-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-2 may be used in lieu of procedure NDE-600. If PDI-UT-2 is used, then the calibration block listed shall be used. This weld was listed previously as 2-51A-27-41C until iso 2-51A-27(1) was redrawn.
						Tee to Pipe		
O2.C5.30.0002								C05.030.002
2-51B-23-64 Socket		2-51B-23 O-ISIN4-101A-2.2	NDE-35	PT	SS	0.154 / 2.000		
Category C-F-2						Pipe to Valve 2HP136		
O2.C5.51.0001								C05.051.001, C05.051.001A
2MS-133-17 Circumferential	01A Class 2	2MS-133 O-ISIN4-122A-2.1	NDE-25	MT	CS	1.164 / 36.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used. This weld was listed previously as 2-01A-4-17 on iso 2-01A-4(1) until it was transferred to iso 2MS-133.
						Reducing Y Fitting to Elbow		
O2.C5.51.0001								C05.051.001, C05.051.001A
2MS-133-17 Circumferential	01A Class 2	2MS-133 O-ISIN4-122A-2.1	PDI-UT-1	UT	CS	1.164 / 36.000	Component PDI-UT-1-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used. This weld was listed previously as 2-01A-4-17 on iso 2-01A-4(1) until it
						Reducing Y Fitting to Elbow		was transferred to iso 2MS-133.

					e 2, 4th inter	va.,-outage 2 (EOC-22)		
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks (Comments / Historical Data
Category C-F-2		•						
O2.C5.51.0009	* · · · · · · · · · · · · · · · · · · ·				,**			C05.051.009, C05.051.009A
2MS-123-70V Circumferential		2MS-123 O-ISIN4-122A-2.1	NDE-25	MΤ	CŠ	0.969 / 24.000		S/G 2B Main Steam Nozzle to Reducer weld. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
Terminal End								
						Nozzle S/G 2B to Reducer		
O2.C5.51.0009								C05.051.009, C05.051.009A
2MS-123-70V Circumferential	01A Class 2	2MS-123 O-ISIN4-122A-2.1	NDE-600	UT	CS	0.969 / 24.000		S/G 2B Main Steam Nozzle to Reducer weld. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of
Circumerentias	Class 2							procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
Terminal End								
		•				Nozzle S/G 2B to Reducer		
O2.C5.51.0010						•.		C05.051.010, C05.051.010A
2MS-123-71V Circumferential		2MS-123 O-ISIN4-122A-2.1	NDE-25	MT	CS	0.969 / 24.000	٠.	S/G 2B Main Steam Nozzie to Reducer weld. Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
Terminal End								
						Nozzle S/G 2B to Reducer		
O2.C5.51.0010								C05.051.010, C05.051.010A
2MS-123-71V	01A	2MS-123 O-ISIN4-122A-2.1	NDE-600	UT	CS	0.969 / 24.000	Component PDI-UT-1-O	S/G 2B Main Steam Nozzle to Reducer weld. Procedure NDE-600 uses the component for
Circumferential	Class 2					•		calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
Terminal End								
						Nozzle S/G 2B to Reducer		
O2.C5.51.0015								C05.051.015, C05.051.015A
2-03A-10-61	03A	2-03A-10	NDE-25 '	MT	CS	0.562 / 6.000	•	Procedure NDE-600 uses the component for
Circumferential	Class 2	O-ISIN4-121D-2.1						calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
						Tee to Pipe		

Oconee 2,	4th	Interva	utage	2	(EOC-22)
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System	ISO/DWG Numbers	Procedure	Insp				
		Procedure	нед	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
							C05.051.015, C05.051.015A
	2-03A-10 O-ISIN4-121D-2.1	NDE-600	UT	CS	0.562 / 6.000	Component PDI-UT-1-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the
Class 2							calibration block listed shall be used.
					Tee to Pipe		
							C05.051.016, C05.051.016A
03A	OM 201.S0155.001	NDE-25	MT	CS	0.432 / 6.000		Procedure NDE-600 uses the component for
Class 2	O-ISIN4-121B-2.3						calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
					Pipe Cap to Pipe		
							C05.051.016, C05.051.016A
03A	OM 201.S0155.001 O-ISIN4-121B-2.3	NDE-600	UT	CS	0.432 / 6.000	Component PDI-UT-1-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the
Class 2							calibration block listed shall be used.
					Pipe Cap to Pipe		
							C05.051.020, C05.051.020A
03	2FDW-253	NDE-25	MT	CS	0.750 / 14.000		Procedure NDE-600 uses the component for
Class 2	O-ISIN4-121B-2.3						calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used. Subassembly Weld. This weld was listed previously AS 2-03-18-3 on iso 2-03-18 (1) until it was transferred to iso 2FDW-253.
					Elbow to Reducer		
					1.		C05.051.020, C05.051.020A
03	2FDW-253 O-ISIN4-121B-2.3	NDE-600	UT	CS	0.750 / 14.000	Component PDI-UT-1-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of
Class 2							procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used. Subassembly Weld. This weld was listed previously AS 2-03-18-3 on iso 2-03-18 (1) until it was transferred to iso 2FDW-253.
					Elbow to Reducer		
	•				•		C05.051.021, C05.051.021A
		NDE-25	MT	CS	0.750 / 14.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
					Pipe to Elbow		
	O3A Class 2 03A Class 2 03 Class 2 03 Class 2	O-ISIN4-121D-2.1 Class 2 03A OM 201.S0155.001 Class 2 O-ISIN4-121B-2.3 03A OM 201.S0155.001 O-ISIN4-121B-2.3 Class 2 03 2FDW-253 Class 2 O-ISIN4-121B-2.3 03 2FDW-253 O-ISIN4-121B-2.3	O-ISIN4-121D-2.1 O3A OM 201.S0155.001 NDE-25 Class 2 O-ISIN4-121B-2.3 O3A OM 201.S0155.001 NDE-600 O-ISIN4-121B-2.3 Class 2 O3 2FDW-253 NDE-25 Class 2 O-ISIN4-121B-2.3 Class 2 O3 2FDW-253 NDE-600 O-ISIN4-121B-2.3 O3 2FDW-253 NDE-600 O-ISIN4-121B-2.3 NDE-600 O-ISIN4-121B-2.3	O-ISIN4-121D-2.1 Class 2 03A OM 201.S0155.001 NDE-25 MT Class 2 O-ISIN4-121B-2.3 03A OM 201.S0155.001 NDE-600 UT	O-ISIN4-121D-2.1 O3A OM 201.S0155.001 NDE-25 MT CS Class 2 O-ISIN4-121B-2.3 O3A OM 201.S0155.001 NDE-600 UT CS O-ISIN4-121B-2.3 Class 2 O3 2FDW-253 NDE-25 MT CS O1SIN4-121B-2.3 Class 2 O3 2FDW-253 NDE-600 UT CS O-ISIN4-121B-2.3 Class 2 O3 2FDW-253 NDE-600 UT CS O-ISIN4-121B-2.3 NDE-600 UT CS O3 2FDW-253 NDE-600 UT CS O3 2FDW-253 NDE-600 UT CS	O-ISIN4-121D-2.1 O3A OM 201.S0155.001 NDE-25 MT CS 0.432 / 6.000 Class 2 O-ISIN4-121B-2.3 Pipe Cap to Pipe O3A OM 201.S0155.001 O-ISIN4-121B-2.3 Class 2 Pipe Cap to Pipe O3 2FDW-253 NDE-25 MT CS 0.750 / 14.000 Class 2 O-ISIN4-121B-2.3 Elbow to Reducer O3 2FDW-253 O-ISIN4-121B-2.3 Class 2 Elbow to Reducer O3 2FDW-253 O-ISIN4-121B-2.3 Elbow to Reducer O3 2FDW-253 O-ISIN4-121B-2.3 Class 2 Elbow to Reducer	O-ISIN4-121D-2.1 O3A OM 201.S0155.001 NDE-25 MT CS 0.432 / 6.000 Class 2 O4SIN4-121B-2.3 O4SIN4-121B-2.3 NDE-600 UT CS 0.432 / 6.000 Pipe O3A OM 201.S0155.001 O-ISIN4-121B-2.3 Pipe Cap to Pipe O3A OM 201.S0155.001 O-ISIN4-121B-2.3 Class 2 Pipe Cap to Pipe O3 2FDW-253 O-ISIN4-121B-2.3 D4SIN4-121B-2.3 NDE-600 UT CS 0.750 / 14.000 Component PDI-UT-1-O Elbow to Reducer Elbow to Reducer Elbow to Reducer O3 2FDW-253 O-ISIN4-121B-2.3 O4SIN4-121B-2.3 NDE-600 UT CS 0.750 / 14.000 Component PDI-UT-1-O Elbow to Reducer

				Ocone	e z, 4m mer	va—outage 2 (EOC-22)		
Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks	Comments / Historical Data
Category C-F-2								
O2.C5.51.0021								C05.051.021, C05.051.021A
2FDW-226-101V Circumferential	03 Class 2	2FDW-226 O-ISIN4-121B-2.3	NDE-600	UT	CS	0.750 / 14.000	Component PDI-UT-1-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the
								calibration block listed shall be used.
						Pipe to Elbow		
O2.C5.51.0023								C05.051.023, C05.051.023A
2SGA-W242 Circumferential	03 Class 2	OM 201.S0155.001 O-ISIN4-121B-2.3	NDE-25	MT	CS	0.750 / 14.000		Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the calibration block listed shall be used.
						Pipe to Pipe Cap		
O2.C5.51.0023								C05.051.023, C05.051.023A
2SGA-W242	03	OM 201.S0155.001 O-ISIN4-121B-2.3	PDI-UT-1	UT	CS	0.750 / 14.000	Component PDI-UT-1-O	Procedure NDE-600 uses the component for calibration. Procedure PDI-UT-1 may be used in lieu of procedure NDE-600. If PDI-UT-1 is used, then the
Circumferential	Class 2							calibration block listed shall be used.
<u> </u>						Pipe to Pipe Cap		
O2.C5.81.0002								C05.081.002
2-MS20A-B Branch	•	2MS-134 O-ISIN4-122A-2.1 2MS-20A	NDE-25	MT	CS	0.562 / 12.000		Subassembly 2MS-20A. This weld was listed previously on iso 2-01A-4(1) until it was transferred to iso 2MS-134.
Category D-A						Main Steam Header to Pipe		
O2.D1.10.0002								D01.010.002
2-DHRC-A	53B Class 3	OM 201-0286 O-ISIN4-102A-2.2 OM 2201-277	NDE-65	VT-1	NA	0.500 / 0.000		Decay Heat Removal Cooler 2A. Welded attachment at the two support cradles to cooler.
O2.D1.10.0003		· · · · · · · · · · · · · · · · · · ·						D01.010.003
2-SSF-SWST		OM 2400031 O-ISIN4-133A-2.5	NDE-65	VT-1	NA	0.500 / 0.000		Auxiliary Service Water Strainer.
O2.D1.10.0004								D01.010.004
2-MCD-C		OM-202-5 O-ISIN4-121A-2.3 OM-202-25	NDE-65	VT-1	NA	0.000 / 0.000		Main Condenser 2C. Welded Attachment at 4 Support Legs.

Oconee 2, 4th Interval, outage 2 (EOC-22)

				Ocone	e 2, 4th Interv	apoutage 2 (EOC-22)	
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category D-A							
O2.D1.10.0005							D01.010.00
2-UST-A	14B Class 3	OM 1149-0001 O-ISIN4-121A-2.7 O-1348-B	NDE-65	VT-1	NA	0.000 / 0.000	Upper Surge Tank 2A. (2 Support Cradles) See Dwg O-1348-B-001 for BasePlate details.
						Plate to Shell	
O2.D1.10.0006							D01.010.006
2-UST-DOME		O-348 O-ISIN4-121A-2.7 O-348.A-02	NDE-65	VT-1	NA	0.000 / 0.000	Upper Surge Tank Dome. (4 Support Legs)
						Plate to Shell	
O2.D1.20.0006							D01.020.012
2-03A-1-0-1439B-H11 Rigid Support	03A Class 3	2-03A-06/sht.3 O-ISIN4-121D-2.1	NDE-65	VT-1	NA	0.375 / 6.000	Calculation No. OSC-459. Inspect with F01.030.028.
O2.D1.20.0021							D01.020.064
2-14B-0-1439B-RJP-3104 Rigid Support	14B Class 3	4-14-04/sht.3 O-ISIN4-124B-2.2	NDE-65	VT-1	NA	0.237 / 8.000	Calculation No. OSC-474. Inspect with F01.030.078.
O2.D1.20.0022							D01.020.065
2-14B-1-0-1439B-H12 Rigid Restraint		4-14-04/sht.2 O-ISIN4-124B-2.2	NDE-65	VT-1	NA	2.000 / 14.000	Calculation No. OSC-474. Inspect with F01.031.064.
O2.D1.20.0025							D01.020.068
2-14B-1439B-DE154 Rigid Support		2-14-06/sht.2 O-ISIN4-124B-2.2	NDE-65	VT-1	NA	0.187 / 8.000	Calculation No. OSC-475. Inspect with F01.030.075.
O2.D1.20.0175							D01.020.052
2-13-0-345A-PS1-A Rigid Support		O-345A O-ISIN4-133A-2.1	NDE-65	VT-1	NA	0.375 / 96.000	Calculation No. OSC-681 or OSC-605. Welded attachment associated with support located on discharge piping at the Condenser Circulating Water Intake Pump 2A.
O2.D1.30.0001							D01.030.010
2-CCWP-A		OM 2020003 O-ISIN4-133A-2.1 O-345	NDE-65	VT-1	NA	2.000 / 0.000	Condenser Circulating Water Intake Pump 2A. Welded attachment to Pump Casing.
						Attachment to Casing	
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Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category ELC							
O2.H2.1.0004							H02.001.004
2-PHB-13 Circumferential	50 Class 1	ISI-OCN2-006 OM-1201-1521	NDE-35	PT	CS-Inconel	2.875 / 9.000	RTE Mounting Boss Pc.12 to Pipe Pc.7. This weld covers the X-Axis. The diameter of hole that penetrates the nozzle into the Hot Leg = .613. Reference Section 7 of the ISI Plan, General Requirements.
Dissimilar							
						Pipe to Pipe	
O2.H2.1.0005							H02.001.005
2-PHB-14 Circumferential	50 Class 1	ISI-OCN2-006 OM-1201-1521	NDE-35	PT	CS-Inconel	2.875 / 9.000	RTE Mounting Boss Pc.12 to Pipe Pc.7. This weld covers the Y-Z Axis. The diameter of hole that penetrates the nozzle into the Hot Leg = .613. Reference Section 7 of the ISI Plan, General Requirements.
						Pipe to Pipe	
O2.H2.1.0006							H02.001.006
2-PHB-15 Circumferential	50 Class 1	ISI-OCN2-006 OM-1201-1521	NDE-35	PT	CS-Inconel	2.875 / 9.000	RTE Mounting Boss Pc.12 to Pipe Pc.7. This weld covers the Z-W Axis. The diameter of hole that penetrates the nozzle into the Hot Leg = .613. Reference Section 7 of the ISI Plan, General Requirements.
Dissimilar						Dina ta Dina	
00111 1 0001						Pipe to Pipe	LIOA 004 004
O2.H4.1.0004 2-03-0-1439B-H52 Rigid Support	03 Class 3	2-03-01/sht.1 O-ISIN4-121B-2.3	NDE-66	VT-3	NA	0.000 / 24.000	H04.001.004 Calculation No. OSC-454. Inspect with item number F01.030.022.
O2.H4.1.0023							H04.001.023
2-01A-0-1441-H3 Rigid Support		2-01-01/sht.1 O-ISIN4-122A-2.1	NDE-66	VT-3	NA	0.000 / 36.000	Calculation No. OSC-440.
O2.H4.1.0024							H04.001.024, H04.001.024A
2-01A-0-1441-R2-2 Hyd Snubber		2-01-01/sht.1 O-ISIN4-122A-2.1	NDE-25	ΜŤ	NA	0.688 / 36.000	Calculation No. OSC-440 (H04.001.024A) 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.

					- ,	-outage 2 (EUC-22)	
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
ategory ELC							
O2.H4.1.0024	•						H04.001.024, H04.001.024
2-01A-0-1441-R2-2 Hyd Snubber		2-01-01/sht.1 O-ISIN4-122A-2.1	NDE-66	VT-3	NA ·	0.688 / 36.000	Calculation No. OSC-440 (H04.001.024A) 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.
O2.H4.1.0025							H04.001.02
2-01A-0-1441-H4 Rigid Support	Class 2	2-01-01/sht.1 O-ISIN4-122A-2.1	NDE-66	VT-3	NA	0.000 / 36.000	Calculation No. OSC-440.
O2.H4.1.0026							H04.001.02
2-01A-0-1401B-H5	01A	2-01-01/sht.1	NDE-66	VT-3	NA	0.000 / 36.000	Calculation No. OSC-440.
Spring Hgr	Class 2	O-ISIN4-122A-2.1					
O2.H4.1.0027				·			H04.001.02
2-01A-0-1401B-R3	01A	2-01-01/sht.1	NDE-66	VT-3	NA	0.000 / 36.000	Calculation No. OSC-440.
Rigid Support	Class 2	O-ISIN4-122A-2.1					
O2.H4.1.0028							H04.001.02
2-01A-0-1401B-H6	01A	2-01-01/sht.2	NDE-66	VT-3	NA	0.000 / 36.000	Calculation No. OSC-440.
Spring Hgr	Class 2	O-ISIN4-122A-2.1					
O2.H4.1.0030							H04.001.03
2-01A-0-1401B-H8	01A	2-01-01/sht.2	NDE-66	VT-3	NA	0.000 / 36.000	Calculation No. OSC-440.
Rigid Support	Class 2	O-ISIN4-122A-2.1					
O2.H4.1.0031							H04.001.03
2-01 A -0-1401B-H9		2-01-01/sht.2	NDE-66	VT-3	NA	0.000 / 36.000	Calculation No. OSC-440.
Rigid Support	Class 2	O-ISIN4-122A-2.1					
O2.H4.1.0047	*						H04.001.04
2-01A-0-1401B-H23	01A	2-01-01/sht.2	NDE-66	VT-3	NA	0.000 / 12.000	Calculation No. OSC-440.
Rigid Support	Class 2	O-ISIN4-122A-2.1					Inspect with item number F01.020.004.

					e 2, 4th Interva	-outage 2 (EOC-22)	
Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category ELC							
O2.H4.1.0049 2-01A-0-1401B-H24 Spring Hgr		2-01-01/sht.2 O-ISIN4-122A-2.1	NDE-66	VT-3	NA	0.000 / 36.000	H04.001.04 Calculation No. OSC-440. Inspect with item number F01.022.003.
Category F-A							
O2.F1.10.0001 2-51A-0-1479A-H12B Rigid Support	51A Class 1	2-51-24 O-ISIN4-101A-2.4	NDE-66	VT-3	NA	0.500 / 2.500	F01.010.0 ⁻ Calculation No. OSC-1323. HPI West Coolant Loop.
O2.F1.11.0006 2-53A-0-1479A-H24C Rigid Restraint	53A Class 1	0-2RB-25314-02 O-ISIN4-100A-2.2	NDE-66	VT-3	NA	0.000 / 1.500	F01.011.03 Calculation No. OSC-1324-06.
O2.F1.12.0004 2-50-1479A-H3A Hyd Snubber	50 Class 1	0-2491B-2A O-ISIN4-100A-2.1	NDE-66	VT-3	NA	0.000 / 10.000	F01.012.00
O2.F1.12.0005 2-51A-0-1479A-H1A Spring Hgr	51A Class 1	0-2RB-25315-04 O-ISIN4-101A-2.4	NDE-66	VT-3	NA	0.000 / 2.500	F01.012.0 Calculation No. OSC-1324-06.
O2.F1.20.0004 2-01A-0-1401B-H23 Rigid Support	01A Class 2	2-01-01/sht.2 O-ISIN4-122A-2.1	NDE-66	VT-3	NA	0.000 / 12.000	F01.020.00 Calculation No. OSC-440. Inspect with item number H04.001.047.
O2.F1.20.0005 2-03-0-1479A-H1B Rigid Support		0-1490B-2(S) O-ISIN4-121B-2.3 2-03-06/sht.3	NDE-66	VT-3	NA	0.280 / 14.000	F01.020.0 Calculation No. OSC-1316-06(Vol. A). Inspect with C03.020.014.
O2.F1.20.0009 2-14B-0-1479A-H18 Rigid Support		2-14-13/sht.1 O-ISIN4-124B-2.2	NDE-66	VT-3	NA	0.000 / 8.000	F01.020.02 Calculation No. OSC-132506.

This report includes all changes through addendum ONS2-057 The per is responsible for verifying this report against the issued plan. Oconee 2, 4th Interval outage 2 (EOC-22)

Summary Num				Insp	e 2, 4iii iiilei va		·	
Component ID / Type	System	ISO/DWG Numbers	Procedure		Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data	
Category F-A								
O2.F1.20.0013 2-51-0-436J-H142 Rigid Support	51 Class 2	0-2AB-25102-01 O-ISIN4-101A-2.2	NDE-66	VT-3	NA	0.000 / 6.000	Calculation No. OSC-481.	F01.020.04
O2.F1.20.0018 2-51A-6-0-435B-SR58 Rigid Support		0-2AB-25102-02 O-ISIN4-101A-2.3	NDE-66	VT-3	NA	0.000 / 6.000	Calculation No. OSC-481.	F01.020.046
O2.F1.20.0022 2-51A-0-1444-H187 Rigid Support		0-2AB-25118-02 O-ISIN4-101A-2.4	/ NDE-66	VT-3	NA	0.000 / 4.000	Calculation No. OSC-1023. HPI Crossover Line.	F01.020.050
O2.F1.20.0039 2-53B-0-435B-DE019 Rigid Support	53B Class 2	0-2AB-25301-03 O-ISIN4-102A-2.2	NDE-66	VT-3	NA	0.000 / 10.000	Calculation No. OSC-487.	F01.020.077
O2.F1.20.0041 2-53B-0-439A-H60 Rigid Support	53B Class 2	0-2AB-25302-01 O-ISIN4-102A-2.2	NDE-66	VT-3	NA	0.000 / 10.000	Calculation No. OSC-493.	F01.020.079
O2.F1.20.0048 2-53B-2-0-436E-H5 Rigid Support	53B Class 2	0-2AB-25102-03 O-ISIN4-101A-2.3	NDE-66	VT-3	NA	1.000 / 8.000	Calculation No. OSC-481.	F01.020.086
O2.F1.20.0052 2-54A-3-0-1439B-H15 Rigid Support		2-54-03/sht.1 O-ISIN4-103A-2.1	NDE-66	VT-3	NA	0.125 / 8.000	Calculation No. OSC-496. Inspect with C03	F01.020.094 3.020.055.
O2.F1.20.0059 2-56-2-0-437B-H30 Rigid Support	56 Class 2		NDE-66	VT-3	NA	0.00 / 8.000	Calculation No. OS-421. Saddle is not welded.	F01.020.103

				Oconce	c 2, 4111 miles va	Houlage 2 (LOO-22)	
Summary Num Component ID / Type	System	n ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category F-A							
O2.F1.21.0003 2-14B-0-1479A-H19A Rigid Restraint	14B Class 2	0-1492A-2(S) O-ISIN4-124B-2.2 2-14-15/sht.1	NDE-66	VT-3	NA	1.625 / 8.000	F01.021 Calculation No. OSC-1325-06.
O2.F1.21.0007 2-14B-0-1479A-H2 Rigid Restraint		2-14-13/sht.1 O-ISIN4-124B-2.2	NDE-66	VT-3	NA	0.216 / 8.000	F01.021 Calculation No. OSC-1325-06. Inspect with C03.020.024.
O2.F1.21.0008 2-14B-0-1479A-H1 Rigid Restraint	=	2-14-14/sht.1 O-ISIN4-124B-2.2	NDE-66	VT-3	NA	0.216 / 6.000	F01.021 Calculation No. OSC-1325-06. Inspect with C03.020.022.
O2.F1.21.0014 2-51A-436J-DE001 Rigid Restraint	_	0-2AB-25101-01 O-ISIN4-101A-2.3	NDE-66	VT-3	NA	0.000 / 2.500	F01.021 Calculation No. OSC-479.
O2.F1.21.0017 2-51A-0-1479A-H19C Rigid Restraint		2-51-12/sht.5 O-ISIN4-101A-2.1	NDE-66	VT-3	NA	0.000 / 2.500	F01.021 Calculation No. OSC-1660-06. HPI System.
O2.F1.21.0020 2-51A-2-0-1439C-H12 Rigid Restraint		2-51-18/sht.5 O-ISIN4-101A-2.4	NDE-66	VT-3	NA	0.000 / 4.000	F01.021 Calculation No. OSC-1023. HPI System.
O2.F1.21.0022 2-51B-436J-DE009 Rigid Restraint	51B Class 2	0-2AB-25101-04 O-ISIN4-101A-2.1	NDE-66	VT-3	NA	0.000 / 4.000	F01.021 Calculation No. OSC- 479.
O2.F1.21.0034 2-54A-3-0-1439B-H13 Rigid Restraint		2-54-03/sht.1 O-ISIN4-103A-2.1	NDE-66	VT-3	NA	0.125 / 8.000	F01.021 Calculation No. OSC-496. Inspect with C03.020.052

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Summary Num Component ID / Type	Systen	n ISO/DWG Numbers	Procedure	insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data	
Category F-A								
O2.F1.21.0037 2-56-1439E-DE001 Rigid Restraint		4-56-02/sht.5 O-ISIN4-104A-1.1	NDE-66	VT-3	NA	0.000 / 8.000	Calculation No. OS-421.	F01.021.081
O2.F1.22.0003 2-01A-0-1401B-H24 Spring Hgr		2-01-01/sht.2 O-ISIN4-122A-2.1	NDE-66	VT-3	NA	0.000 / 36.000	Calculation No. OSC-440. Inspect with item number H04.001.049.	F01.022.003
O2.F1.22.0021 2-53B-5-0-435B-H71 Spring Hgr	53B Class 2	0-2AB-25301-03 O-ISIN4-102A-2.2	NDE-66	VT-3	NA	0.000 / 10.000	Calculation No. OSC-487.	F01.022.055
O2.F1.22.0022 2-53B-1439C-H5394 Hyd Snubber	53B Class 2	0-2AB-25302-01 O-ISIN4-102A-2.2	NDE-66	VT-3	NA	. 0.000 / 10.000	Calculation No. OSC-493.	F01.022.056
O2.F1.22.0024 2-53A-4-0-435B-H19 Spring Hgr	53A Class 2	0-2AB-25301-01 O-ISIN4-102A-2.2	NDE-66	VT-3	NA	0.000 / 12.000	Calculation No. OSC-487.	F01.022.058
O2.F1.30.0007 2-03A-1-0-1439A-H23 Rigid Support		2-03A-05/sht.1 O-ISIN4-121D-2.1	NDE-66	VT-3	NA	0.000 / 6.000	Calculation No. OSC-447.	F01.030.014
O2.F1.30.0012 2-03A-1401A-JG-1101 Rigid Support	03A Class 3		NDE-66	VT-3	NA	0.000 / 6.000	Calculation No. OSC-1213.	F01.030.019
O2.F1.30.0015 2-03-0-1439B-H52 Rigid Support	03 Class 3	•	NDE-66	VT-3	NA	0.000 / 24.000	Calculation No. OSC-454. Inspect with item number H04.001.004.	F01.030.022

Oconee 2, 4th Interval, outage 2 (EOC-22)

				Ocone	e 2, 4tii iiiteiva	+Outage 2 (EUC-22)	•
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category F-A							
O2.F1.30.0019 2-03A-1401A-GC-0804 Rigid Support		2-03A-06/sht.1 O-ISIN4-121D-2.1	NDE-66	VT-3	NA	0.000 / 6.000	F01.030.02 Calculation No. OSC-459.
O2.F1.30.0021 2-03A-1-0-1439B-H11 Rigid Support	03A Class 3	2-03A-06/sht.3 O-ISIN4-121D-2.1	NDE-66	VT-3	NA	0.375 / 6.000	F01.030.02 Calculation No. OSC-459. Inspect with D01.020.012.
O2.F1.30.0030 2-07A-1400A-H4090 Rigid Support	07A Class 3	0-2TB-20701-06 O-ISIN4-121A-2.8	NDE-66	VT-3	NA	0.000 / 10.000	F01.030.04 Calculation No. OSC-467.
O2.F1.30.0032 0-13-447A-H7024 Rigid Support	_	4-13-01/sht.1 O-ISIN4-133A-2.5	NDE-66	VT-3	NA	0.000 / 12.000	F01.030.06 Calculation No. OSC-1224-25.
O2.F1.30.0038 2-14B-1439B-DE154 Rigid Support	14B Class 3	2-14-06/sht.2 O-ISIN4-124B-2.2	NDE-66	VT-3	NA	0.187 / 8.000	F01.030.03 Calculation No. OSC-475. Inspect with D01.020.068.
O2.F1.30.0041 2-14B-0-1439B-RJP-3104 Rigid Support	14B Class 3	4-14-04/sht.3 O-ISIN4-124B-2.2	NDE-66	VT-3	NA	0.237 / 8.000	F01.030.07 Calculation No. OSC-474. Inspect with D01.020.064.
O2.F1.30.0044 2-57-1480A-NWIX Rigid Support		0-2RB-25701-01 O-ISIN4-107A-2.1	NDE-66	VT-3	NA	0.000 / 12.000	F01.030.00 Calculation No. OSC-1332-06.
O2.F1.30.0359 2-13-0-345A-PS1-A Rigid Support		O-345A O-ISIN4-133A-2.1	NDE-66	VT-3	NA	0.375 / 96.000	F01.030.06 Calculation No. OSC-681 or OSC-605. Support located on discharge piping at the Condenser Circulating Wate Intake Pump 2A.
O2.F1.31.0009 2-03A-1-0-1401A-SR2 Rigid Restraint		2-03A-05/sht.5 O-ISIN4-121D-2.1	NDE-66	VT-3	NA	0.000 / 6.000	F01.031.0 Calculation No. OSC-447.
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	Cal Blocks Comments / Historical Data	Sched Thick/Dia	Mat	Insp Req	Procedure	ISO/DWG Numbers	System	Summary Num Component ID / Type
								Category F-A
F01.031.063	Calculation No. OSC-466.	0.000 / 6.000	NA	VT-3	NDE-66	0-2AB-203A14-02 O-ISIN4-121D-1.2		O2.F1.31.0021 2-14B-438C-DE107 Rigid Restraint
F01.031.064 ct with D01.020.065.	Calculation No. OSC-474. Inspect w	2.000 / 14.000	NA	VT-3	NDE-66	4-14-04/sht.2 O-ISIN4-124B-2.2		O2.F1.31.0022 2-14B-1-0-1439B-H12 Rigid Restraint
F01.032.014	Calculation No. OSC-449.	0.000 / 6.000	NA	VT-3	NDE-66	2-03A-08/sht.4 O-ISIN4-121D-2.1		O2.F1.32.0006 2-03A-1-0-1401B-H45 Spring Hgr
F01.040.004	Letdown Cooler 2B Support.	0.000 / 0.000	CS	VT-3	NDE-66	OM-201-3107 O-ISIN4-101A-2.1 1-34097-2	Class 1	O2.F1.40.0004 2-LDCB-SUPPORT
	Upper Surge Tank 2A Support Legs See Dwg O-1348-B-001 for BasePla	0.000 / 0.000	NA .	VT-3	NDE-66	OM-1149-0001 O-ISIN4-121A-2.7 O-1348-B	Class 3	O2.F1.40.0008 2-UST-A
	Emergency Feedwater Pump Turbir Figure 1 in Manual OM-200.B-0006,	0.000 / 0.000	NA	VT-3	NDE-66	OM-200.B-0006 O-ISIN4-122A-2.4		O2.F1.40.0010 2-EFDW-PU-T
F01.040.013	Main Condenser 2C Support Legs.	0.000 / 0.000	NA	VT-3	NDE-66	OM-202-5 O-ISIN4-121A-2.3 OM-202-25	Class 3	O2.F1.40.0013 2-MCD-C
F01.040.020 Rescheduled as a	Letdown Storage Tank Support. Re- result of PIP O-06-4249.	0.000 / 0.000	NA	VT-3	NDE-66	OM-201-63 O-ISIN4-101A-2.2		O2.F1.40.0020 2-LS-TANK

Oconee 2, 4th Interval, Jutage 2 (EOC-22)

					2, 401 1110774	-Sulage 2 (200-22)	
Summary Num Component ID / Type	System	ISO/DWG Numbers	Procedure	Insp Req	Mat	Sched Thick/Dia	Cal Blocks Comments / Historical Data
Category F-A							
O2.F1.40.0024							F01.040.024
2-LDFTR-A		OM-201-0128 O-ISIN4-101A-2.1	NDE-66	VT-3	NA	0.250 / 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 5 will count in percentages to meet Section XI requirements. Rescheduled to outage 2 as a result of PIP O-06-4249.
O2.F1.40.0025							F01.040.025
2-50-RCPM-2A2-SS1 Hyd Snubber	Class 1	0-1066A O-ISIN4-100A-2.1 O-ISIN4-100A-2.3	NDE-66	VT-3	NA	0.000 / 6.000	Calculation No. OSC-0991-01-0001. Reactor Coolant Pump 2A2 Motor Snubbers. Reference PIP 0-096-1575.
O2.F1.40.0031							F01.040.031
2-UST-DOME		O-348A-02 O-ISIN4-121A-2.7	NDE-66	VT-3	NA	0.000 / 0.000	Upper Surge Tank Dome Support Legs. Rescheduled as a result of PIP O-06-4249.
O2.F1.40.0061						,	· · · · · · · · · · · · · · · · · · ·
2-SSF-SWST		OM 2400031 O-ISIN4-133A-2.5	NDE-66	VT-3	NA	0.500 / 0.000	Auxiliary Service Water Strainer.
O2.F1.40.0062							F01.040.032
2-CCWP-A	13 Class 3	OM 2020003 O-ISIN4-133A-2.1 O-345	NDE-66	VT-3	NA	2.000 / 0.000	Condenser Circulating Water Intake Pump 2A. Examine the Pump Thrust Support shown in the "Plan View" of drawing O-345 and also examine the Pump Floor Plate and associated bolting shown in "View A-A" on drawing OM 202-0003.
O2.F1.40.0067							
2-SGB-LATERAL		O-1065Y O-1065-D O-ISIN4-100A-2.1	NDE-66	VT-3			Unit 2 Steam Generator B Lateral Support. Drawings O-1065X, O-106Y, O-1065-D, and O-65G should be used for inspection of the lateral support.

Steam Generator B Lateral Support

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:

Summary/Item = ASME Section XI Tables IWB-2500-1 Number (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. $= \frac{Y}{N}$ Yes (Geometric Reflector

applies only to UT) \underline{N}

RFR (Relief Request) = \underline{Y} Yes

<u>N</u> No

Comments = General and/or Detail Description

4.1 Reportable Indications

EOC 22 (Outage 2) 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's Corporate Office in Charlotte, North Carolina.

PIP O-07-02608 was written to document problems found with welds on the Letdown Storage Tank Support. The support was evaluated by civil engineering at Oconee and was found to be acceptable for service. Work Order 924525 was written to correct the problems.

4.4 <u>Limited Examinations</u>

Limited examinations (i.e., less than or equal to 90% of the required examination coverage obtained) identified during EOC 22 (Outage 2) 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.

Summary/Item Number	Description of Limitation
O2.B3.110.0001	Coverage limitation (41.70%)
O2.B3.110.0006	Coverage limitation (36.70%)
O2.B3.110.0007	Coverage limitation (36.70%)
O2.B3.110.0008	Coverage limitation (36.70%)

Summary/Item Number	Description of Limitation
O2.B9.11.0059	Coverage limitation (37.50%)
O2.C1.20.0006	Coverage limitation (80.26%)
O2.C5.11.0004	Coverage limitation (37.50%)
O2.C5.21.0021	Coverage limitation (75.00%)
O2.C5.21.0024	Coverage limitation (37.50%)
O2.C5.21.0025	Coverage limitation (78.70%)

Note: O2.B9.11.0002 was examined during 2EOC-22 and had limited coverage. This item is rescheduled to be examined again in 2EOC-23 in order to achieve the required coverage (> 90%). Relief Request will be filed after the examination is performed during 2EOC-23 if the required coverage cannot be achieved.

DUKE ENERGY CORPORATION QUALITY ASSURANCE ECHNICAL SERVICES

Inservice Inspection Database Management System Inspection Results

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.B1.30.0001	2-RPV-WR19	50	05/03/07	CLR	N	N	N	UT-07-032
O2.B10.10.0013	2-LDCB-SUPPORT		05/20/07	CLR	N	N	N	MT-07-017
O2.B12.10.0001	2RCP-2A1	50	05/03/07	CLR	N	N	N	VT-07-130
O2.B3.110.0001	2-PZR-WP15	50	05/15/07	CLR	N	N	N	UT-07-089
		50	05/15/07	CLR	41.70%	N	Υ	UT-07-090
								Relief Request will be filed for the limitation.
O2.B3.110.0006	2-PZR-WP26-4	50	05/09/07	REC	36.70%	Υ	Υ	UT-07-048
								Indications # 1-45° & 2-35° were determined to be geometric reflectors. Indication # 3-35° was acceptable per Section XI IWB-3512. Relief Request will be filed for the limitation.
		50	05/09/07	CLR	36.70%	N	Υ	UT-07-051
								Relief Request will be filed for the limitation
	•	50	05/09/07	REC	36.70%	N	Υ	UT-07-067
								Indication # 1-45° was acceptable per Section XI IWB-3512. Relief Request will be filed for the limitation.

			Insp	Insp	Insp	Geo		
Summary No	Component ID	System	_ `	Status	Limited	Ref	RFR	Comment
O2.B3.110.0007	2-PZR-WP26-5	50	05/09/07	CLR	36.70%	Υ	Υ	UT-07-049
								Indication # 1-45° & 2-35° were determined to be geometric reflectors. Relief Request will be filed for the limitation.
		50	05/09/07	CLR	36.70%	N	Υ	UT-07-052
								Relief Request will be filed for the limitation.
O2.B3.110.0008	2-PZR-WP26-6	50	05/09/07	CLR	36.70%	Υ	Υ	UT-07-050
								Indication # 1-45° & 2-35° were determined to be geometric reflectors. Relief Request will be filed for the limitation.
		50	05/09/07	CLR	36.70%	N	Υ	UT-07-053
								Relief Request will be filed for the limitation.
O2.B3.120.0001	2-PZR-WP15	50	05/15/07	CLR	N	N	N	UT-07-097
O2.B3.120.0006	2-PZR-WP26-4	50	05/09/07	CLR	N	N	N	UT-07-054
O2.B3.120.0007	2-PZR-WP26-5	50	~05/09/07	CLR	N	N	N	UT-07-055
O2.B3.120.0008	2-PZR-WP26-6	50	05/09/07	CLR	N	N	N	UT-07-056
O2.B6.40.0001	2-RPV-LIGAMENTS	50	05/03/07	CLR	N	N	N	UT-07-033
O2.B7.50.0005	2HP-217-2A1-FLG	51A	05/07/07	CLR	N	N	N	VT-07-135
O2.B7.50.0006	2HP-216-2A2-FLG	51A	05/07/07	CLR	N	N	N	VT-07-136

Summary No	Component ID	System	insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.B7.50.0007	2HP-214-2B1-FLG	51A	05/07/07	CLR	N	N	N	VT-07-137
								Rust exist on flange bolting inside flange but does not reduce thickness more than 5%. There is minor thread deformation due to corrision between the flange. The thread deformation is not in the zone of thread engagement.
O2.B7.50.0008	2HP-218-2B2-FLG	51A	05/07/07	CLR	N	N	N	VT-07-138
								There is some rust inside the flanges but does not reduce the section thickness more than 5%.
O2.B9.11.0002	2-PSL-9	50	05/15/07	CLR	N	N	N	PT-07-042
		50	05/16/07	CLR	84.80%	N	Υ	UT-07-095
								This weld was scheduled to be examined again during the 2EOC-23 outage to try and achieve the required coverage (>90%). Relief Request will be filed for the limitation after the examination is performed in 2EOC-23 if the required coverage cannot be achieved
O2.B9.11.0022	2RC-279-92V	50	05/18/07	CLR	N	N	N	MT-07-013
		50	05/18/07	CLR	N	N	N	UT-07-099
O2.B9.11.0029	2SGB-W2	50	05/11/07	CLR	N	N	N	MT-07-005
		50	05/12/07	CLR	N	N	N	UT-07-074
O2.B9.11.0036	2-PSL-1	50	05/15/07	CLR	N	N	N	PT-07-043
		50	05/16/07	CLR	93.90%	N	N	UT-07-096
O2.B9.11.0059	2-PDB1-1	50	05/06/07	CLR	N	N	N	PT-07-013
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Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.B9.11.0059	2-PDB1-1	50	05/08/07	CLR	37.50%	N	Υ	UT-07-046
								Relief Request will be filed for the limitation.
		50	05/08/07	CLR	37.50%	N	Y	UT-07-047 Relief Request will be filed for the limitation.
								Trelier frequest will be lifed for the inflitation.
O2.B9.11.0060	2-PDB1-3	50	05/06/07	CLR	N	N	N	MT-07-002
	·	50	05/08/07	CLR	N	N	N	UT-07-045
O2.B9.11.0061	2RC-279-94V	50	05/11/07	CLR	N	N	N	MT-07-006
		50	05/12/07	CLR	N	N	N	UT-07-075
O2.B9.11.0066	2-51A-30-1	51A	05/11/07	CLR	N	N	N	PT-07-030
		51A	05/13/07	CLR	N	N	N	UT-07-077
O2.B9.21.0001	2-50-7-8	50	05/12/07	CLR	N	N	N	PT-07-034
O2.B9.21.0002	2-50-7-14	50	05/12/07	CLR	N	N	N	PT-07-035
O2.B9.21.0003	2-50-7-29	50	05/12/07	CLR	N	N	N	PT-07-036
O2.B9.21.0006	2-PDB1-11	50	05/06/07	CLR	N	N	N	PT-07-014
O2.B9.21.0012	2-PSP-11	50	05/08/07	CLR	N	N	N	PT-07-026

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment		
O2.B9.21.0013	2-PSP-13	50	05/08/07	CLR	N	N	N	PT-07-025		
O2.B9.21.0023	2-PSP-22	50	05/06/07	CLR	N	N	N	PT-07-015		
O2.B9.21.0024	2-51A-144-24	51A	05/21/07	CLR	N	N	N	PT-07-045	 	••.
O2.B9.21.0025	2-51A-145-1	51A	05/21/07	CLR	N	N	N	PT-07-046		
O2.B9.21.0040	2RC-204-20	51A	05/02/07	CLR	N	N	N	PT-07-012		
O2.B9.21.0050	2-51A-30-32	51A	05/11/07	CLR	N	N	N	PT-07-031		
O2.B9.21.0053	2-51A-35-24	51A	05/12/07	CLR	N	N	N	PT-07-037	 	
O2.B9.31.0001	2-PHB-16	50	05/15/07	CLR	N	N	N	MT-07-008	 	
		50	05/16/07	CLR	N	N	N	UT-07-098		
O2.B9.31.0002	2-PHA-16	50	05/18/07	CLR	N	N	N	UT-07-100		
O2.C1.10.0003	2-LDFTRA-SH-FL	51B	05/07/07	CLR	N	N	N	PT-07-021		
O2.C1.20.0003	2-LDFTRA-HD-SH-1	51B	05/07/07	CLR	. N	N	N	PT-07-022		
O2.C1.20.0004	2-LDFTRA-HD-SH-2	51B	05/07/07	CLR	N	N	N	PT-07-023		
• • • •									 	

`•			Insp	Insp	Insp	Geo		
Summary No	Component ID	System	Date	Status	Limited	Ref	RFR	Comment
O2.C1.20.0005	2-LST-HD-SH-1	51A	05/10/07	CLR	N	N	N	UT-07-068
O2.C1.20.0006	2-LST-HD-SH-2	51A	05/10/07	CLR	80.26%	N	Υ	UT-07-069
								Relief Request will be filed for the limitation.
O2.C3.10.0003	2-LDFTR-A	51A	05/07/07	CLR	N	N	N	PT-07-024
O2.C3.10.0005	2-LS-TANK	51B	05/10/07	REC	N	N	N	PT-07-029
								Five rounded indications were recorded during the PT examination. These indications were determined to be acceptable per NDE 35 Acceptance Standards H & L.
O2.C3.20.0008	2-03-0-1479A-H1B	03	05/18/07	CLR	N	N	Ν.	MT-07-014
O2.C3.20.0010	2-14B-0-1479A-H1	14B	05/13/07	CLR	N	N	N	MT-07-009
O2.C3.20.0012	2-14B-0-1479A-H2	14B	05/13/07	CLR	N	N	N	MT-07-010
O2.C3.20.0030	2-54A-3-0-1439B-H13	54A	02/15/07	CLR	N	N	N	PT-07-001
O2.C3.20.0033	2-54A-3-0-1439B-H15	54A	02/15/07	CLR	N	N	N	PT-07-002
O2.C5.11.0004	2LP-148-90	53A	02/12/07	CLR	N	N	N	PT-07-003
		53A	02/12/07	CLR	37.50%	N	Υ	UT-07-005
								Relief Request will be filed for the limitation.

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.C5.11.0006	2LP-150-36	53A	02/14/07	CLR	N	N	N	PT-07-004
		53A	02/14/07	CLR	N	N	N	UT-07-001
O2.C5.11.0007	2LP-150-37	53A	02/14/07	CLR	N	N	N	PT-07-005
		53A	02/14/07	CLR	N	N	N	UT-07-002
O2.C5.11.0008	2LP-150-38	53A	02/14/07	CLR	N .	N	N	PT-07-006
		53A	02/14/07	CLR	N	N	N	UT-07-003
O2.C5.11.0017	2LP-189-12	53A	05/10/07	CLR	N	N	N	PT-07-027
		53A	05/10/07	CLR	N	N	N	UT-07-057
O2.C5.11.0029	2-53A-9-7	53A	05/15/07	CLR	N	N	N	PT-07-038
		53A	05/15/07	CLR	N	N	N ·	UT-07-087
O2.C5.11.0030	2-53A-9-8	53A	05/15/07	CLR	N	N	N	PT-07-039
		53A	05/15/07	CLR	N	N	N	UT-07-088
O2.C5.11.0031	2-53A-9-9	53A	05/12/07	CLR	N	N	N	PT-07-033
		53A	05/12/07	CLR	N	N	N	UT-07-076

Summary No				Insp	Insp	insp	Geo			
S3A 05/10/07 CLR N N N DT-07-058	Summary No	Component ID	System	Date	Status	Limited	Ref	RFR	Comment	
O2_C5_11_0072 2LPS-724-14 14B 05/15/07 CLR N N N PT-07-040 14B 05/15/07 CLR N N N UT-07-091 02_C5_11_0073 2LPS-724-15 14B 05/15/07 CLR N N N PT-07-041 14B 05/15/07 CLR N N N UT-07-092 02_C5_21_0003 2-RCP-FTR2B-SH-1 51A 05/07/07 CLR N N N PT-07-019 51A 05/12/07 CLR N N N RT-N/A 02_C5_21_0004 2-RCP-FTR2B-SH-2 51A 05/07/07 CLR N N N PT-07-020 02_C5_21_0021 2-51A-17-147 51A 02/21/07 CLR N N N PT-07-010 Relief Request will be filed for the limitation.	O2.C5.11.0032	2LP-189-11	53A	05/10/07	CLR	N	N	N	PT-07-028	
O2.C5.11.0073 2LPS-724-15 14B 05/15/07 CLR N N N PT-07-041 O2.C5.21.0003 2-RCP-FTR2B-SH-1 51A 05/15/07 CLR N N N UT-07-092 O2.C5.21.0003 2-RCP-FTR2B-SH-1 51A 05/07/07 CLR N N N PT-07-019 51A 05/12/07 CLR N N N RT-N/A O2.C5.21.0004 2-RCP-FTR2B-SH-2 51A 05/07/07 CLR N N N PT-07-020 O2.C5.21.0021 2-51A-17-147 51A 02/21/07 CLR N N N PT-07-010 Relief Request will be filed for the limitation.			53A	05/10/07	CLR	N	N	N	UT-07-058	
O2.C5.11.0073 2LPS-724-15 14B 05/15/07 CLR N N N PT-07-041 02.C5.21.0003 2-RCP-FTR2B-SH-1 51A 05/07/07 CLR N N N PT-07-019 02.C5.21.0004 2-RCP-FTR2B-SH-2 51A 05/07/07 CLR N N N RT-N/A 02.C5.21.0021 2-S1A-17-147 51A 02/21/07 CLR N N N PT-07-010 Relief Request will be filed for the limitation. CLR N N N N PT-07-011	O2.C5.11.0072	2LPS-724-14	14B	05/15/07	CLR	N	N	N	PT-07-040	
02.C5.21.0003 2-RCP-FTR2B-SH-1 51A 05/07/07 CLR N N N PT-07-019 02.C5.21.0004 2-RCP-FTR2B-SH-2 51A 05/07/07 CLR N N N RT-N/A 02.C5.21.0004 2-RCP-FTR2B-SH-2 51A 05/07/07 CLR N N N PT-07-020 02.C5.21.0021 2-51A-17-147 51A 02/21/07 CLR N N N PT-07-010 Relief Request will be filed for the limitation.			14B	05/15/07	CLR	N	N	N	UT-07-091	
O2.C5.21.0003 2-RCP-FTR2B-SH-1 51A 05/07/07 CLR N N N PT-07-019 51A 05/12/07 CLR N N N RT-N/A O2.C5.21.0004 2-RCP-FTR2B-SH-2 51A 05/07/07 CLR N N N PT-07-020 O2.C5.21.0021 2-51A-17-147 51A 02/21/07 CLR N N N PT-07-010 Felief Request will be filed for the limitation. Relief Request will be filed for the limitation.	O2.C5.11.0073	2LPS-724-15	14B	05/15/07	CLR	N	N	N	PT-07-041	
O2.C5.21.0004 2-RCP-FTR2B-SH-2 51A 05/07/07 CLR N N N PT-07-020 O2.C5.21.0021 2-51A-17-147 51A 02/21/07 CLR N N N PT-07-010 S1A 02/21/07 CLR 75.00% N Y UT-07-010 Relief Request will be filed for the limitation.			14B	05/15/07	CLR	N	N	N	UT-07-092	
O2.C5.21.0004 2-RCP-FTR2B-SH-2 51A 05/07/07 CLR N N N PT-07-020 O2.C5.21.0021 2-51A-17-147 51A 02/21/07 CLR N N N PT-07-010 51A 02/21/07 CLR 75.00% N Y UT-07-010 Relief Request will be filed for the limitation.	O2.C5.21.0003	2-RCP-FTR2B-SH-1	51 A	05/07/07	CLR	N	N	N	PT-07-019	
O2.C5.21.0021 2-51A-17-147 51A 02/21/07 CLR N N N PT-07-010 51A 02/21/07 CLR 75.00% N Y UT-07-010 Relief Request will be filed for the limitation.			51A	05/12/07	CLR	N	N	N	RT-N/A	
51A 02/21/07 CLR 75.00% N Y UT-07-010 Relief Request will be filed for the limitation. O2.C5.21.0022 2-51A-17-158 51A 02/21/07 CLR N N N PT-07-011	O2.C5.21.0004	2-RCP-FTR2B-SH-2	51A	05/07/07	CLR	N	N	N	PT-07-020	•
O2.C5.21.0022 2-51A-17-158 51A 02/21/07 CLR N N N PT-07-011	O2.C5.21.0021	2-51A-17-147	51A	02/21/07	CLR	N	N	N	PT-07-010	
O2.C5.21.0022 2-51A-17-158 51A 02/21/07 CLR N N N PT-07-011			51A	02/21/07	CLR	75.00%	N	Υ	UT-07-010	
									Relief Reque	st will be filed for the limitation.
	O2.C5.21.0022	2-51A-17-158	51A	02/21/07	CLR	N	N	N		
			51A	02/21/07	CLR	N	N	N		
O2.C5.21.0023 2-51A-27-25 51A 02/20/07 CLR N N N PT-07-009	O2.C5.21.0023	2-51A-27-25	51A	02/20/07	CLR	N	N	N	PT-07-009	

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.C5.21.0023	2-51A-27-25	51A	02/20/07	CLR	N	N	N	UT-07-008
O2.C5.21.0024	2HP-220-9	51A	02/13/07	CLR	N	N	N	PT-07-007
		51A	02/13/07	CLR	37.50%	N	Y	UT-07-006
								Relief Request will be filed for the limitation.
O2.C5.21.0025	2HP-220-14	51 A	02/13/07	CLR	N	N	N	PT-07-008
		51A	02/13/07	CLR	78.70%	N	Υ	UT-07-007
								Relief Request will be filed for the limitation.
O2.C5.30.0002	2-51B-23-64	51B	05/17/07	CLR	N	N	N	PT-07-044
O2.C5.51.0001	2MS-133-17	01A	05/21/07	CLR	N	N	N	MT-07-018
		01A	05/21/07	CLR	N	N	N	UT-07-103
O2.C5.51.0009	2MS-123-70V	01A	05/09/07	CLR	N	N	N	MT-07-003
		01A	05/12/07	CLR	N	N	N	UT-07-071
O2.C5.51.0010	2MS-123-71V	01A	05/11/07	CLR	N	N	N	MT-07-007
		01A	05/12/07	CLR	N	N	N	UT-07-072
O2.C5.51.0015	2-03A-10-61	03A	02/12/07	CLR	N	N	N	MT-07-001

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment	
O2.C5.51.0015	2-03A-10-61	03A	02/12/06	CLR	N	N	· N	UT-07-004	
O2.C5.51.0016	2SGA-W277	03A	05/16/07	CLR	N	N	N	MT-07-011	and an entire former than the second
		03A	05/16/07	CLR	N	N	N	UT-07-093	
D2.C5.51.0020	2FDW-253-3	03	05/09/07	CLR	N	N	N	MT-07-004	
		03	05/12/07	CLR	N	N	N	UT-07-073	
O2.C5.51.0021	2FDW-226-101V	03	05/16/07	CLR	N	N	N	MT-07-012	
		03	05/16/07	CLR	N	N	N	UT-07-094	
O2.C5.51.0023	2SGA-W242	03	05/18/07	CLR	N	N	N	MT-07-015	
	·	03	05/18/07	CLR	N	N	N	UT-07-102	
O2.C5.81.0002	2-MS20A-B	01A	05/21/07	CLR	N	N	N	MT-07-019	
O2.D1.10.0002	2-DHRC-A	53B	01/29/07	CLR	N	N	N	VT-07-002	
O2.D1.10.0003	2-SSF-SWST	13	01/23/07	CLR	N	N	N	VT-07-001	
O2.D1.10.0004	2-MCD-C	07	04/05/07	REC	N	N	N	VT-07-110	
								The discrepan support was fo	cies that were found were reviewed by civil engineering and the bund to be acceptable for service.

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.D1.10.0005	2-UST-A	14B	01/09/07	CLR	N	N	N	VT-07-009
O2.D1.10.0006	2-UST-DOME	14B	01/25/07	REC	N	N	N	VT-07-099
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.D1.20.0006	2-03A-1-0-1439B-H11	03A	02/15/07	REC	N	N	N	VT-07-111
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.D1.20.0021	2-14B-0-1439B-RJP-3104	14B	02/07/06	CLR	N	N	N	VT-07-024
O2.D1.20.0022	2-14B-1-0-1439B-H12	14B	03/21/07	REC	N	N	N	VT-07-112
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.D1.20.0025	2-14B-1439B-DE154	14B	03/22/07	CLR	N	N	N	VT-07-010
O2.D1.20.0175	2-13-0-345A-PS1-A	13	11/07/06	REC	N	N	N	VT-07-100
								The discrepancies found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 00910733 was written to correct problems.
O2.D1.30.0001	2-CCWP-A	13	11/07/06	REC	N	N	N	VT-07-101
								The discrepancies found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.10.0001	2-51A-0-1479A-H12B	51A	05/02/07	REC	N	N	N	VT-07-113
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.F1.11.0006	2-53A-0-1479A-H24C	53A	05/02/07	REC	N	N	N	VT-07-114
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 00924660 was written to correct problems.
O2.F1.12.0004	2-50-1479A-H3A	50	05/07/07	CLR	N	N	N ·	VT-07-139
O2.F1.12.0005	2-51A-0-1479A-H1A	51A	05/07/07	REC	N	N	N	VT-07-145
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.20.0004	2-01A-0-1401B-H23	01A	01/09/07	REC	N	N	N	VT-07-102
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.20.0005	2-03-0-1479A-H1B	03	05/07/07	REC	N	N	N	VT-07-147
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work order 00924642 was written to correct problems.
O2.F1.20.0009	2-14B-0-1479A-H18	14B	05/06/07	CLR	N	N	N	VT-07-142
O2.F1.20.0013	2-51-0-436J-H142	51	05/10/07	CLR	N	N	N	VT-07-149
O2.F1.20.0018	2-51A-6-0-435B-SR58	51A	03/15/07	CLR	N	N	N	VT-07-011
O2.F1.20.0022	2-51A-0-1444-H187	51A	03/12/07	CLR	N	N	N	VT-07-012
O2.F1.20.0039	2-53B-0-435B-DE019	53B	03/15/07	· CLR	N	N	N	VT-07-013

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.F1.20.0041	2-53B-0-439A-H60	53B	03/22/07	CLR	N	N	N	VT-07-014
O2.F1.20.0048	2-53B-2-0-436E-H5	53B	03/15/07	CLR	N	N	N	VT-07-015
O2.F1.20.0052	2-54A-3-0-1439B-H15	54A	02/15/07	CLR	N	N	N	VT-07-020
O2.F1.20.0059	2-56-2-0-437B-H30	56	02/19/07	REC	N	N	N	VT-07-115
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.21.0003	2-14B-0-1479A-H19A	14B	05/07/07	CLR	N	N	N	VT-07-143
O2.F1.21.0007	2-14B-0-1479A-H2	14B	05/13/07	REC	N	N	N	VT-07-153
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 00926389 was written to correct problems.
O2.F1.21.0008	2-14B-0-1479A-H1	14B	05/13/07	REC	N	N	N	VT-07-154
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 00926385 was written to correct problems.
O2.F1.21.0014	2-51A-436J-DE001	51A	05/10/07	CLR	N	N	N	VT-07-150
O2.F1.21.0017	2-51A-0-1479A-H19C	51A	05/02/07	REC	N	N	N	VT-07-116
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 00924605 was written to correct problems.

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geó Ref	RFR	Comment
O2.F1.21.0020	2-51A-2-0-1439C-H12	51A	02/07/06	REC	N	N	N	VT-07-103
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
)2.F1.21.0022	2-51B-436J-DE009	51B	05/10/07	CLR	N	N	N	VT-07-151
)2.F1.21.0034	2-54A-3-0-1439B-H13	54A	02/15/07	CLR	N	N	N	VT-07-021
D2.F1.21.0037	2-56-1439E-DE001	56	03/21/07	REC	N	N	N-	VT-07-117
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D2.F1.22.0003	2-01A-0-1401B-H24	01A	05/04/07	REC	N	N	N	VT-07-131
		,						The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D2.F1.22.0021	2-53B-5-0-435B-H71	53B	03/15/07	CLR	N	N	N	VT-07-016
D2.F1.22.0022	2-53B-1439C-H5394	53B	03/22/07	REC	N	N	N	VT-07-118
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
)2.F1.22.0024	2-53A-4-0-435B-H19	53A	03/15/07	CLR	N	N	N	VT-07-017
D2.F1.30.0007	2-03A-1-0-1439A-H23	03A	03/22/07	REC	N	N	N	VT-07-119
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D2.F1.30.0012	2-03A-1401A-JG-1101	03A	01/09/07	CLR	N	N	N	VT-07-008

Summary No	Component ID	System	Insp Date	insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.F1.30.0015	2-03-0-1439B-H52	03	04/28/07	REC	N	N	N	VT-07-120
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.30.0019	2-03A-1401A-GC-0804	03A	01/09/07	REC	N	N	N	VT-07-104
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.30.0021	2-03A-1-0-1439B-H11	03A	02/15/07	CLR	N	N	N	VT-07-022
O2.F1.30.0030	2-07A-1400A-H4090	07A	01/18/07	CLR	N	N	N	VT-07-007
O2.F1.30.0032	0-13-447A-H7024	13	01/11/07	REC	N	N	N	VT-07-105
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.30.0038	2-14B-1439B-DE154	14B	03/22/07	CLR	N	N	N	VT-07-018
O2.F1.30.0041	2-14B-0-1439B-RJP-3104	14B	02/07/06	CLR	N	N	N	VT-07-025
O2.F1.30.0044	2-57-1480A-NWIX	57	05/07/07	CLR	N	N	N	VT-07-144
O2.F1.30.0359	2-13-0-345A-PS1-A	13	11/07/06	REC	N	N	N	VT-07-106
								The discrepancies found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 00910733 was written to correct problems.

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.F1.31.0009	2-03A-1-0-1401A-SR2	03A	03/12/07	REC	N	N	N	VT-07-121
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.31.0021	2-14B-438C-DE107	14B	01/18/07	CLR	N	N	N	VT-07-006
O2.F1.31.0022	2-14B-1-0-1439B-H12	14B	03/21/07	CLR	N	N	N	VT-07-019
O2.F1.32.0006	2-03A-1-0-1401B-H45	03A	03/15/07	REC	N	N	N	VT-07-122
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.40.0004	2-LDCB-SUPPORT		05/21/07	REC	N	N	N	VT-07-155
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.40.0008	2-UST-A		01/09/07	CLR	N	N	N	VT-07-005
O2.F1.40.0010	2-EFDW-PU-T		01/24/07	CLR	N	N	N	VT-07-004
O2.F1.40.0013	2-MCD-C		04/05/07	REC	N	N	N	VT-07-123
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.40.0020	2-LS-TANK		05/10/07	REC	N	N	N	VT-07-152
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 924525 was written to correct problem. PIP O-07-02608 was written to document the weld problems with this support.

Summary No	Component ID	System	insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.F1.40.0024	2-LDFTR-A	51B	05/08/07	CLR	N	N	N	VT-07-140
O2.F1.40.0025	2-50-RCPM-2A2-SS1		05/09/07	CLR	N	N	N	VT-07-141
O2.F1.40.0031	2-UST-DOME	14B	01/25/07	REC	N	N	N	VT-07-107
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.40.0061	2-SSF-SWST	13	01/23/07	CLR	N	N	N	VT-07-003
O2.F1.40.0062	2-CCWP-A	13	11/07/06	REC	N	N	N	VT-07-108
								The discrepancies found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.F1.40.0067	2-SGB-LATERAL	50	05/21/07	REC	N	N	N	VT-07-156
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work order 00926701 was written to obtain measurements that will be used to update Calculation OSC-7723.
O2.G1.1.0001	2-RCP-2A1	50	12/11/06	CLR	N	N	N	MT-NA
		50	12/11/06	CLR	N	N	N	UT-N/A
O2.G1.1.0005	2-RCP-2A2	50	05/05/07	CLR	N	N	N	UT-07-044
O2.G1.1.0006	2-RCP-2B1	50	05/05/07	CLR	N	N	N	UT-07-042
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Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G1.1.0007	2-RCP-2B2	50	05/05/07	CLR	N	N	N	UT-07-043
O2.G12.1.0005	2-PDB2-11	50	05/05/07	CLR	N	N	N	UT-07-070
O2.G13.1.0001	2-PZR-WP45	50	05/01/07	CLR	N	N	N	VT-07-032
O2.G13.1.0002	2-PSP-1	50	05/01/07	CLR	N	N	N	VT-07-033
O2.G13.1.0003	2-PZR-WP23	50	05/01/07	CLR	N	N	N	VT-07-034
O2.G13.1.0004	2-PZR-WP91-1	50	05/01/07	CLR	N	N	N	VT-07-035
O2.G13.1.0005	2-PZR-WP91-2	50	05/01/07	CLR	N	N	N	VT-07-036
O2.G13.1.0006	2-PZR-WP91-3	50	05/01/07	CLR	N	N	N	VT-07-037
O2.G13.1.0007	2-PHA-17	50	05/02/07	CLR	N	N	N	VT-07-128
O2.G13.1.0008	2-53A-10-10A	53A	05/02/07	CLR	N	N	N	VT-07-129
O2.G13.1.0009	2-PHB-17	50	04/30/07	CLR	N	N	N	VT-07-038
O2.G13.1.0010	2-PSL-10	50	04/30/07	CLR	N	N	N	VT-07-039
O2.G13.1.0011	2-PZR-WP63-1	50	05/01/07	CLR	N	N	N	VT-07-040

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment				
O2.G13.1.0012	2RC-240-6B	50	05/01/07	CLR	N	N	N	VT-07-041				
O2.G13.1.0013	2-PZR-WP63-2	50	05/01/07	CLR	N	N	N	VT-07-042				
O2.G13.1.0014	2RC-240-9A	50	05/01/07	CLR	N	N	N	VT-07-043				
O2.G13.1.0015	2-PZR-WP63-3	50	05/01/07	CLR	N	N	N	VT-07-044				
O2.G13.1.0016	2RC-240-4A	50	05/01/07	CLR	N	N	N	VT-07-045				-
O2.G13.1.0017	2-PZR-WP63-4	50	05/01/07	CLR	N	N	N	VT-07-046				
O2.G13.1.0018	2RC-240-25V	50	05/01/07	CLR	N	N	N	VT-07-047				
O2.G13.1.0019	2-PZR-WP63-5	50	05/01/07	CLR	N	N	N	VT-07-048	inanyaarur-v		······································	
O2.G13.1.0020	2RC-240-1A	50	05/01/07	CLR	N	N	N	VT-07-049				
O2.G13.1.0021	2-PZR-WP63-6	50	05/01/07	CLR	N	Ň	N	VT-07-050				
O2.G13.1.0022	2RC-240-21V	50	05/01/07	CLR	N	N	N	VT-07-051		, 11		
O2.G13.1.0023	2-PZR-WP63-7	50	05/01/07	CLR	N	N	N	VT-07-052			•	
O2.G13.1.0024	2RC-206-6	50	05/01/07	CLR	N	N	N	VT-07-053				 •
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Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G13.1.0025	2-50-16-8A	50	05/01/07	CLR	N	N	N	VT-07-054
O2.G13.1.0026	2RC-278-66	50	04/30/07	CLR	N	N	N	VT-07-055
O2.G13.1.0027	2RC-278-70V	50	04/30/07	CLR ,	N	N	N	VT-07-056
O2.G13.1.0028	2RC-277-50	50	05/01/07	CLR	N	N	N	VT-07-057
O2.G13.1.0029	2RC-277-71V	50	05/01/07	CLR	N	N	N	VT-07-058
O2.G13.1.0030	2RC-278-23	50	04/30/07	CLR	N	N	N	VT-07-059
O2.G13.1.0031	2RC-278-69	50	04/30/07	CLR	N	N	N	VT-07-060
O2.G13.1.0032	2RC-277-24	50	05/01/07	CLR	N	N	N	VT-07-061
O2.G13.1.0033	2RC-277-70	50	05/01/07	CLR	N	N	N	VT-07-062
O2.G13.2.0001	2-RPV-WR53	50	05/20/07	CLR	N	N	N	VT-07-157
O2.G13.2.0002	2-RPV-WR53A	50	05/20/07	CLR	N	N	N	VT-07-158
O2.G13.2.0003	2-PIB1-11	50	05/01/07	CLR	N	N	N	VT-07-063
O2.G13.2.0004	2-51A-35-15A	51A	05/01/07	CLR	N	N	N	VT-07-064

Summary No	Component ID	System	Insp Date	insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G13.2.0005	2-PIA1-7	50	04/30/07	CLR	N	N	N	VT-07-065
O2.G13.2.0006	2-PIA2-7	50	04/30/07	CLR	N	N	N	VT-07-066
O2.G13.2.0007	2-PIB1-7	50	05/01/07	CLR	N	N	N	VT-07-067
O2.G13.2.0008	2-PIB2-7	50	04/30/07	CLR	N	N	N	VT-07-068
O2.G13.2.0009	2-PDA1-2	50	04/30/07	CLR	N	N	N	VT-07-069
O2.G13.2.0010	2-PDA2-2	50	04/30/07	CLR	N	N	N	VT-07-070
O2.G13.2.0011	2-PDB1-2	50	04/30/07	CLR	N	N	N	VT-07-071
O2.G13.2.0012	2-PDB2-2	50	04/30/07	CLR	N	N	N	VT-07-072
O2.G13.2.0014	2RC-279-19AA	50	05/01/07	CLR	N	N	N	VT-07-073
O2.G13.2.0015	2RC-279-20	50	04/30/07	CLR	N	N	N	VT-07-074
O2.G13.2.0016	2-PIA1-11	50	04/30/07	CLR	N	N	N	VT-07-026
O2.G13.2.0017	2-50-7-29	50	04/29/07	CLR	N	N	N	VT-07-027
O2.G13.2.0018	2-PIA2-11	50	04/29/07	CLR	N	N	N	VT-07-028
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Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment	
O2.G13.2.0019	2-50-7-14	50	04/29/07	CLR	N	Ν	N	VT-07-029	
O2.G13.2.0020	2-PIB2-11	. 50	04/30/07	CLR	N	N	N	VT-07-030	
O2.G13.2.0021	2-50-7-8	50	04/29/07	CLR	N	N	N	VT-07-031	
O2.G13.2.0022	2RC-279-21	50	04/30/07	CLR	N	N	N	VT-07-075	
O2.G13.2.0023	2RC-279-22A	50	04/30/07	CLR	N	N	N	VT-07-076	
O2.G14.1.0001	2-PZR-THERM	50	05/01/07	CLR	N	N	N	VT-07-077	
O2.G14.1.0002	2-PZR-WP45	50	05/01/07	CLR	N	N	N	VT-07-078	-
O2.G14.1.0003	2-PSP-1	50	05/01/07	CLR	N	N	N	VT-07-079	
O2.G14.1.0004	2-PZR-WP23	50	05/01/07	CLR	N	N	N	VT-07-080	
O2.G14.1.0005	2-PZR-WP91-1	50	05/01/07	CLR	N	N	N	VT-07-081	
O2.G14.1.0006	2-PZR-WP91-2	50	05/01/07	CLR	N	N	N	VT-07-082	
O2.G14.1.0007	2-PZR-WP91-3	50	05/01/07	CLR	N	N	N	VT-07-083	
O2.G14.1.0008	2-PZR-WP63-1	50	05/01/07	CLR	N	N	N	VT-07-084	
	-1-12/10/12/07/07								

Component ID	System	insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
2RC-240-6B	50	05/01/07	CLR	N	N	N	VT-07-085
2-PZR-WP63-2	50	05/01/07	CLR	N	N	N	VT-07-086
	50	05/01/07	CLR	N	N	N	VT-07-087
	50	05/01/07	CLR	N	N	N	VT-07-088
2RC-240-4A	50	05/01/07	CLR	N	N	N	VT-07-089
2-PZR-WP63-4	50	05/01/07	CLR	N	N	N	VT-07-090
2RC-240-25V	50	05/01/07	CLR	N	N	N	VT-07-091
2-PZR-WP63-5	50	05/01/07	CLR	N	N	N	VT-07-092
2RC-240-1A	50	05/01/07	CLR	N	N	N	VT-07-093
2-PZR-WP63-6	50	05/01/07	CLR	N	N	N	VT-07-094
2RC-240-21V	50	05/01/07	CLR	N	N	N	VT-07-095
2-PZR-WP63-7	50	05/01/07	CLR	N	N	N	VT-07-096
2RC-206-6	50	05/01/07	CLR	N	N	N	VT-07-097
	2RC-240-6B 2-PZR-WP63-2 2RC-240-9A 2-PZR-WP63-3 2RC-240-4A 2-PZR-WP63-4 2RC-240-25V 2-PZR-WP63-5 2RC-240-1A 2-PZR-WP63-6 2RC-240-21V 2-PZR-WP63-7	2RC-240-6B 50 2-PZR-WP63-2 50 2RC-240-9A 50 2-PZR-WP63-3 50 2RC-240-4A 50 2-PZR-WP63-4 50 2RC-240-25V 50 2-PZR-WP63-5 50 2RC-240-1A 50 2RC-240-1A 50 2RC-240-1A 50 2-PZR-WP63-6 50 2RC-240-21V 50	Component ID System Date 2RC-240-6B 50 05/01/07 2-PZR-WP63-2 50 05/01/07 2RC-240-9A 50 05/01/07 2-PZR-WP63-3 50 05/01/07 2-PZR-WP63-4 50 05/01/07 2RC-240-25V 50 05/01/07 2-PZR-WP63-5 50 05/01/07 2RC-240-1A 50 05/01/07 2-PZR-WP63-6 50 05/01/07 2RC-240-21V 50 05/01/07 2-PZR-WP63-7 50 05/01/07	Component ID System Date Status 2RC-240-6B 50 05/01/07 CLR 2-PZR-WP63-2 50 05/01/07 CLR 2RC-240-9A 50 05/01/07 CLR 2-PZR-WP63-3 50 05/01/07 CLR 2RC-240-4A 50 05/01/07 CLR 2RC-240-4A 50 05/01/07 CLR 2RC-240-25V 50 05/01/07 CLR 2PZR-WP63-5 50 05/01/07 CLR 2RC-240-1A 50 05/01/07 CLR 2PZR-WP63-6 50 05/01/07 CLR 2RC-240-21V 50 05/01/07 CLR 2-PZR-WP63-7 50 05/01/07 CLR	Component ID System Date Status Limited 2RC-240-6B 50 05/01/07 CLR N 2-PZR-WP63-2 50 05/01/07 CLR N 2RC-240-9A 50 05/01/07 CLR N 2-PZR-WP63-3 50 05/01/07 CLR N 2RC-240-4A 50 05/01/07 CLR N 2RC-240-25V 50 05/01/07 CLR N 2RC-240-25V 50 05/01/07 CLR N 2RC-240-1A 50 05/01/07 CLR N 2RC-240-1A 50 05/01/07 CLR N 2RC-240-21V 50 05/01/07 CLR N 2RC-240-21V 50 05/01/07 CLR N 2RC-240-2	Component ID System Date Status Limited Ref 2RC-240-6B 50 05/01/07 CLR N N 2-PZR-WP63-2 50 05/01/07 CLR N N 2RC-240-9A 50 05/01/07 CLR N N 2-PZR-WP63-3 50 05/01/07 CLR N N 2RC-240-4A 50 05/01/07 CLR N N 2-PZR-WP63-4 50 05/01/07 CLR N N 2RC-240-25V 50 05/01/07 CLR N N 2-PZR-WP63-5 50 05/01/07 CLR N N 2RC-240-1A 50 05/01/07 CLR N N 2-PZR-WP63-6 50 05/01/07 CLR N N 2RC-240-21V 50 05/01/07 CLR N N 2-PZR-WP63-7 50 05/01/07 CLR N N	Component ID System Date Status Limited Ref RFR 2RC-240-6B 50 05/01/07 CLR N N N 2-PZR-WP63-2 50 05/01/07 CLR N N N 2RC-240-9A 50 05/01/07 CLR N N N 2-PZR-WP63-3 50 05/01/07 CLR N N N 2-PZR-WP63-4 50 05/01/07 CLR N N N 2-PZR-WP63-4 50 05/01/07 CLR N N N 2-PZR-WP63-5 50 05/01/07 CLR N N N 2-PZR-WP63-5 50 05/01/07 CLR N N N 2-PZR-WP63-6 50 05/01/07 CLR N N N 2-PZR-WP63-7 50 05/01/07 CLR N N N

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G14.1.0022	2-50-16-8A	50	05/01/07	CLR	N	N	N	VT-07-098
O2.G2.1.0001	2-PDB1-46	50	05/06/07	CLR	N	N	N	UT-07-040
O2.G2.1.0002	2-PDA2-46	50	05/02/07	CLR	N	N	N	UT-07-012
O2.G2.1.0003	2-PDA1-46	. 50	05/02/07	CLR	N	N	N	UT-07-013
O2.G2.1.0004	2-PDB2-46	. 50	05/06/07	CLR	N	N	N	UT-07-041
O2.G2.1.0005	2-PDA1-11	50	05/05/07	CLR	N	N	N	UT-07-026
O2.G2.1.0006	2-PDA2-11	50	05/02/07	CLR	N	N	N	UT-07-024
O2.G2.1.0007	2-PDB2-11	50	05/05/07	CLR	N	N	N	UT-07-027
O2.G2.1.0008	2-PDB1-11	50	05/05/07	CLR	N	N	N	UT-07-028
O2.G2.1.0009	2-PDB1-47	50	05/05/07	CLR	N	N	N	UT-07-029
O2.G2.1.0010	2-PDB2-47	50	05/05/07	CLR	N	N	N	UT-07-030
O2.G2.1.0011	2-PDA1-47	50	05/05/07	CLR	N	N	N	UT-07-031
O2.G2.1.0012	2-PDA2-47	50	05/02/07	CLR	N	N	N	UT-07-025

Summary No	Component ID	System	insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G2.1.0013	2RC-204-28	50	05/02/07	CLR	N	N	N	UT-07-016
O2.G2.1.0014	2RC-202-17	50	05/10/07	CLR	N	N	N	UT-07-062
O2.G2.1.0015	2RC-203-21	50	05/02/07	CLR	N	N	N	UT-07-017
O2.G2.1.0016	2RC-205-1	50	05/11/07	CLR	N	N	N	UT-07-078
O2.G2.1.0017	2RC-203-3	50	05/02/07	CLR	N	N	N	UT-07-018
O2.G2.1.0018	2RC-202-19	50	05/10/07	CLR	N	N	N	UT-07-061
O2.G2.1.0019	2RC-204-20	50	05/02/07	CLR	N	N	N	UT-07-019
O2.G2.1.0020	2RC-205-3	50	05/11/07	CLR	N	N	N	UT-07-079
O2.G2.1.0021	2A2 THERM-SLEEVE	50	05/04/07	CLR	N	N	N	RT-n/a
O2.G2.1.0022	2B1 THERM-SLEEVE	50	05/09/07	CLR	N	N	N	RT-N/A
O2.G2.1.0023	2A1 THERM-SLEEVE	50	05/04/07	CLR	N	N	N	RT-n/a
O2.G2.1.0024	2B2 THERM-SLEEVE	50	05/09/07	CLR	N	N	N	RT-N/A
O2.G4.1.0001	2RC-202-17	51A	05/10/07	CLR	N	N	N	UT-07-063

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G4.1.0002	2RC-202-19	51A	05/10/07	CLR	, N	N	N	UT-07-060
O2.G4.1.0003	2RC-205-1	51A	05/11/07	CLR	N	N	N	UT-07-080
O2.G4.1.0004	2RC-205-3	51A	05/11/07	CLR	N	N	N	UT-07-081
O2.G4.1.0005	2HP-218-18	51A	05/11/07	CLR	N	N	N	UT-07-082
O2.G4.1.0006	2HP-214-13	51A	05/10/07	CLR	N	N	N	UT-07-065
O2.G4.1.0007	2HP-214-15	51A	05/10/07	CLR	N	N	N	UT-07-064
O2.G4.1.0008	2RC-202-4	51A	05/10/07	CLR	97.00%	N	N	RT-N/A
		51A	05/10/07	CLR	N	N	N	UT-07-059
O2.G4.1.0009	2RC-203-4	51A	05/06/07	CLR	99.80%	N	N	RT-N/A
		51A	05/02/07	CLR	N	N	N	UT-07-014
O2.G4.1.0010	2RC-204-4	51A	05/06/07	CLR	N	N	N	RT-N/A
		51A	05/02/07	CLR	N	N	N	UT-07-015
O2.G4.1.0011	2RC-205-4	51A	05/09/07	CLR	N	N	N _.	RT-N/A
		51A	05/11/07	CLR	N	N	N	UT-07-085

v. 07/02/07 Oconee 2 7/18/2007 1:37:36 PM

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G4.1.0012	2HP-214-14	51A	05/10/07	CLR	N	Y	N	UT-07-066
								Indication # 1 was determined to be a geometric reflector due to ID weld root geometry.
O2.G4.1.0013	2HP-216-7	51A	05/04/07	CLR	N	N	N	UT-07-034
O2.G4.1.0014	2HP-216-8	51A	05/04/07	CLR	N	N	N	UT-07-035
O2.G4.1.0015	2HP-216-9	51A	05/04/07	CLR	N	N	N	UT-07-036
O2.G4.1.0016	2HP-217-10	51A	05/05/07	CLR	N	N	N	UT-07-037
O2.G4.1.0017	2HP-217-11	51A	05/05/07	CLR	N	N	N	UT-07-038
O2.G4.1.0018	2HP-217-12	51A	05/05/07	CLR	N	N	N	UT-07-039
O2.G4.1.0019	2HP-218-20	51 A	05/11/07	CLR	N	N	N	UT-07-083
O2.G4.1.0020	2HP-218-21	51A	05/11/07	CLR	N	N	N	UT-07-084
O2.G4.1.0021	2HP-218-22	51A	05/11/07	CLR	N	N	N	UT-07-086
O2.G4.1.0022	2RC-203-21	50	05/02/07	CLR	N	N	N	UT-07-020
O2.G4.1.0023	2RC-203-3	50	05/02/07	CLR	N	N	N	UT-07-021

Summary No	Component ID	System	insp Date	insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G4.1.0024	2RC-204-28	50	05/02/07	CLR	. N	N	N	UT-07-022
O2.G4.1.0025	2RC-204-20	50	05/02/07	CLR	N	N	N	UT-07-023
O2.H2.1.0004	2-PHB-13	50	05/07/07	CLR	N	N	N	PT-07-016
O2.H2.1.0005	2-PHB-14	50	05/07/07	CLR	N	N	N	PT-07-017
O2.H2.1.0006	2-PHB-15	50	05/07/07	CLR	N	N	N	PT-07-018
O2.H4.1.0004	2-03-0-1439B-H52	03	04/28/07	REC	N	N	N	VT-07-124 The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.H4.1.0023	2-01A-0-1441-H3	01A	05/01/07	REC	N	N	N	VT-07-125 The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.H4.1.0024	2-01A-0-1441-R2-2	01A	05/19/07	CLR	N	N	N	MT-07-016
		01A	05/04/07	REC	N	N	N	VT-07-146 The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order 00926712 was written to correct problems.
O2.H4.1.0025	2-01A-0-1441-H4	01A	05/06/07	REC	N	N	N	VT-07-148 The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.

Summary No	Component ID	System	insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.H4.1.0026	2-01A-0-1401B-H5	01A	05/04/07	REC	N	N	N	VT-07-132
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.H4.1.0027	2-01A-0-1401B-R3	01A	05/04/07	REC	N	N	N	VT-07-133
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.H4.1.0028	2-01A-0-1401B-H6	01A	05/01/07	REC	N	N [']	N	VT-07-126
							•	The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.H4.1.0030	2-01A-0-1401B-H8	01A	04/28/07	CLR	N	N	N	VT-07-023
O2.H4.1.0031	2-01A-0-1401B-H9	. 01A	04/28/07	REC	N	N	N	VT-07-127
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.H4.1.0047	2-01A-0-1401B-H23	01A	01/09/07	REC	N	N	N	VT-07-109
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
O2.H4.1.0049	2-01A-0-1401B-H24	01A	05/04/07	REC	N	N	N	VT-07-134
								The discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.

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 9 work orders for category 1 repair and replacement documentation for this reporting period. Work Orders 98742091, 98555377, 98626098, 98669959-01, 98701069, 98701070, 98704023, 98727683-10, and 98536821 had work completed prior to 11-15-2005 and copies of the NIS-2 forms are included in this report. The NIS-2 forms associated with the nine work orders are the first 36 pages that immediately follow this page. PIP O-06-01571, PIP O-06-0476 and PIP O-06-01083 were written at the end of the Unit 2 EOC-21 refueling outage to document the late submittal for the NIS-2 forms associated with the 9 work orders listed previously in this paragraph.

Category 2 had 36 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 items during this report period. PSI Examination data for items listed below is on file in the Oconee Nuclear Station QA Vault.

Work Orders	Weld	ISI	Type of	Comments
	Numbers	Class	Inspection	
1723280	2-PZR-WP91-1-WOL	Α	UT	Weld Overlay PZR Relief Nozzle
1723280	2-PZR-WP91-2-WOL	Α	UT	Weld Overlay PZR Relief Nozzle
1723280	2-PZR-WP91-3-WOL	Α	UT	Weld Overlay PZR Relief Nozzle
1723281	2-RC-0266-23V	Α	UT	Weld Overlay PZR Spray Nozzle
1723282	2-RC-0326-21V	Α	UT	Weld Overlay Hotleg Surge Nozzle
1723282	2-RC-0326-22V	Α	UT	Weld Overlay PZR Surge Nozzle

	visions of the ASME					Wo	k Order Num	ber	Sheet		
							98742	2091	1	of 2	
. Owner			2. Pla	ant			 -		Unit		
Duke Pow	er Company		1	Ocor	ee Ni	uclear S	tation		0	NS - 2	
	Church Street			7800	Roch	ester H	wy	Date	_		
Charlotte,	NC 28201-1006			Sene	ca, SC	29672	2	2/8	3/2006		
3. Work Performed	i by					Тур	e Code Symb	ool Stamp Not App	olicable		
	ver Company					Aut	horization Nu				
	Church Street							Not App	olicable		
Charlotte,	, NC 28201-1006					Exp	iration Date	Not App	licable		
4. Identification of	System, ASME CI	ass				!		Постър			
-			eam Ge	enerator, A	SME	Class 1					
5.(a) Applicable Cons	struction Code:	ASME Sec	tion III	19	89	Edition,	No	Addenda	ı. No	Code C	
(b) Applicable Edition				19	98	Edition,	2000	Addenda	· 	oouo o	
(c) Applicable Secti	on XI Code Case(s)	None_						_			
6. Identification of	Components										
Name of	Name of	Manufact		Nation			Other	Year	Corrected,	ASI	
Component	Manufacturer	Serial Nu	mber	Board I	No.	Iden	tification	Built	Removed, or installed	Co-	
									or motanou	(Yes	
Inspection Port	D & W Canada	006K-03		207		DNI#	5206091	2002	Damasuad	VE	
Cover @ Port #9	B & W Canada	000K-03		207		PN#	5206081	2003	Removed	YE	
Inspection Port	B & W Canada	006K-03		207		PN#	5206081	2003	Removed	YE	
Cover @ Port #10		• •			 	<u> </u>			· · · · · · · · · · · · · · · · · · ·		
Inspection Port Cover @ Port #11	B & W Canada	006K-0	03	207		PN# 5206081		2003	Removed	YE	
Inspection Port	<u> </u>		•					2002			
Cover @ Port #14	B & W Canada	006K-0	03	207		PN# 5206081		2003 Removed		YE	
Inspection Port										 	
Test Cover	B & W Canada	160K-	01	214		PN# 5231484		2005 Installed		YE	
Assembly #1 Inspection Port								+		<u> </u>	
Test Cover	B & W Canada	160K-	02	215		PN#	5231483	2005	Installed	YE	
Assembly #2						-				-	
Inspection Port Test Cover	B & W Canada	160K-	03	216		PN#	5231760	2005	Installed	YE	
Assembly #3	Canada			2.0		1"					
Inspection Port											
Test Cover Assembly #3	B & W Canada	160K-03		216	l	PN# 5231854		2005	Installed	YE	
Flange											
Inspection Port	*.	1.077	04	2:-		D2.7.	5021500	2005	T . 15		
Test Cover Assembly #4	B & W Canada	160 K -	U4	217		PN#	5231790	2005	Installed	YE	
7. Description of	L			<u> </u>		I	7				
On Unit 2 "A" Ste		e inspection	n nort a	cover was	remo	ved at e	ach support	location a	t #9, #10 #1	1 and #	
•	d cover was instal	-	port	corci was		, ou at C	aon support	iocation a	ι	ı ana r	

ro rodanie z 1		Work Order Numbe	er Sheet
		9874209	2 of 2
. Remarks (Applicable Manufacturer's Data	Reports to be attached)	<u></u>	·····
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e			
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0			
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	-	· · · · · · · · · · · · · · · · · · ·	
6			
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9			
•			
	CERTIFICATE OF COMPLIA		
I certify that the statements made in the ASME Code, Section XI.	ne report are correct and that	this conforms to the	requirements of the
Type Code Symbol Stamp	Not a	Applicable	
Certificate of Authorization Number	Not Applicable	Expiration Date	Not Applicable
Signed Kulames	Engineer	Date	2/9/2006
Owner or Owner's Designe	ee, Title		
	ERTIFICATE OF INSERVICE IN		
I, the undersigned, holding a valid cor Inspectors and the State or Province of	nmission issued by the Nation	onal Board of Boiler a and employed by	and Pressure Vessel HSB CT
of Hartford, Co		have inspected	d the components described
in this Owner's Report during the period	3-28-06	to 3.28-06	, and state that
to the best of my knowledge and belie	ef, the Owner has performe	ed examinations and	
described in this Owner's Report in according By signing this certificate neither the			
concerning the examinations and correct	ctive measures described in	this Owner's Repor	rt. Furthermore, neither th
Inspector nor his employer shall be liable kind arising from or connected with this in	le in any manner for any pers	sonal injury or prope	erty damage or a loss of an
28 th	Commissions NC	will and	
Inspector's Signature	Outhingsione 20 =	National Board, State,	, Province, and Endorsements
Date 3-28-06			

PIP Serial No:	Action C	ategory: LER No:	Other Report:
O-06-01571	4		

Corrective Actions

CA Seq. No: 1

Resp Group	Status	Orig Grou	p Event Code	Prop CA	C‰Cause Code ::
IWS	Closed	IWS	O2a	Е	R

Proposed Corrective Action:

To enter applicable work packages that are received for QA final review that contain ASME Section XI components that require NIS-2 reports need to be submitted to the General Office for NRC with in the 45 day window after start up of the applicable units RFO.

Originated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 03/22/2006

Signature Type	·	Team .	Group	Date	33
Approval Assigned To:	WTM5506	WTM5506	IWS	03/22/2006	
Assigned To:	TRB6214	WTM5506	IWS	03/29/2006	
Ready For Approval:	TRB6214	WTM5506	IWS	03/29/2006	
Approved By:	WTM5506	WTM5506	IWS	03/29/2006	

General:Outage: N/A

Mode: N/A

Other Tracking Processes
Type Number Text

Actual Corrective Action:

Priority: I3b

Actual CAC: J Status: Open

Due Date: 04/12/2006

The following work order package was received past the 45 day window after start up of unit 2 RFO and for submitting required NIS-2 report to General Office.

***** Work Order package 9874209:5NIS-2 form was initiated by Accountable Engineer on 2/09/2006- 24 days past deadline and actual work was completed at the end of November 2005 for MOD package #OD200349.

Originated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 03/29/2006

Signature Type	Indiv	Team	Group	Date
Assigned To:	TRB6214	WTM5506	IWS	03/22/2006
Due Date:	04/12/2006			
Accepted By:	WTM5506	WTM5506	IWS	03/29/2006

End of the Document for PIP No: The status of this PIP is:

O-6-1571

The status of this PIP is:

The duration of this PIP was:

Screened

2 days

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 1 of 2 98555377 Unit 1. Owner 2. Plant Oconee Nuclear Station ONS - 2 **Duke Power Company** 7800 Rochester Hwy 526 South Church Street Date Seneca, SC 29672 Charlotte, NC 28201-1006 2/2/2006 3. Work Performed by Type Code Symbol Stamp Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Reactor Coolant, ASME Class 1 5. 19 **USAS B31.7** 69 Edition, No Addenda, No Code Case (a) Applicable Construction Code: (b) Applicable Edition Section XI Utilized For R/R Activity 2000 19 98 Edition, Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components **National** Other Corrected, **ASME** Name of Name of Manufacturer Year Board No. Identification Component Manufacturer **Serial Number** Built Removed, Code or Installed Stamped (Yes / No) Hanger 2-64-1974 Corrected NO DPC None None None 1479D-H6451

7.	Descript	ion of Wo	ork						
Lo	ose bolts	to allow	replacement	of op	erator	on	valve	2RC	-6.

8.	Test Conducted					_	
	Hydrostatic	Pneumatic	Nominal (Operating Pressure	Exempt	Other	
	Pressu	ure	PSI	Test Temper	rature	°F	

, , ,	Work Order Number	Sheet
	98555377	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
1/2 by 2 inch A 325 Type 1 bolts in hanger, UTC # 1063576.		
2		
●		
•		
6		
6		
0		
8		
9		
•	_	
CERTIFICATE OF COMPLI	ANCE	
I certify that the statements made in the report are correct and tha ASME Code, Section XI.	t this conforms to the re	quirements of the
Type Code Symbol Stamp Not	Applicable	
Certificate of Authorization Number Not Applicable	Expiration Date	Not Applicable
Signed Bash W. Carrer Senior Engineer	Date	2/2/2006
Owner or Owner's Designee, Tiple		
	- <u></u>	
CERTIFICATE OF INSERVICE IN		
I, the undersigned, holding a valid commission issued by the National Inspectors and the State or Province of Worth Conductor	onal Board of Boiler and and employed by	Pressure Vessel HSB CT
of Hartford, Connecticut	have inspected th	ne components described
in this Owner's Report during the period 2-16-06 to the best of my knowledge and belief, the Owner has performed	to 2./4.06	, and state that
described in this Owner's Report in accordance with the requirements		
By signing this, certificate neither the Inspector nor his emplo- concerning the examinations and corrective measures described in		
Inspector nor his employer shall be liable in any manner for any per		
kind arising from or connected with this inspection.	· •	
Commissions was	C1444 NIABL	
Inspector's Signature	National Board, State, Pro	ovince, and Endorsements
Date _2/16/66		

Action Category: LER No: Other Report: PIP Serial No: O-06-00476

Problem Identification

Discovered Time/Date:

10:42 01/27/2006

Occurred Time/Date:

Unit(s) Affected:

<u>Mode</u> <u>Unit</u> N/A

%Power Unit Status Remarks N/A

N/A

System(s) Affected:

N/A

Not Related to a Unit's System.

Affected Equipment

(No Equipment Affected)

Location of Problem:

Bldg:

Column Line:

Elev:

Location Remarks:

Method Used to Discover Problem:

Brief Problem Description:

Work Packages not processed by Mechanical Services teams in a timely manner.

tail Problem Description:

98656697-01

(98536821-01)

98586396-01

98657709-01

98671891-01

Last Updated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 02/02/2006

This work orders 98674209-01, 98674628-01, 98641556-02, 98634132-01, 98656284-01 should be included in this PIP.

Last Updated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 01/30/2006

It was recently discovered that a population of old work orders and their associated packages had not been turned in to QC for final review. As a result, some upgraded Section X1 components had not had their NIS-2 documentation completed as required. In many cases, packages are held when the technical work is completed so that support tasks for scaffold removal, coating, grouting, or similar tasks can complete. When that occurs and the work order in WMS is completed, the paper packages are sometimes delayed in getting back to QC/Engineering for final evaluation. In the case of this population of work orders, these packages have been significantly delayed, leading to a failure in the timely completion of NIS-2 paperwork and violation of Maintenance Directive MD 7.5.10. The work orders affected are 98536821-01, 98625986-09, 98555377-10, 98624861-22, 98671891-01, 98656697-01, 98657709-01, 98586399-01, 98586396-01, and 98656689-01.

The supervisor who had possession of these packages has now processed all of them and turned them in. He has been counseled on the timely completion and submission of paperwork following the completion of the work. A process will be put in place this week to ensure that all work packages are monitored on a weekly basis to ensure that none are retained after field work completes.

sign this PIP to ONS Maintenance Mechanical Services for documentation of further corrective actions.

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 1 of 2 98626098 2. Plant Unit 1. Owner ONS - 2 **Duke Power Company** Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 7/20/2005 3. Work Performed by **Type Code Symbol Stamp** Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Low Pressure Injection, ASME Class 1 5. (a) Applicable Construction Code: ASME Section III 19 **%** Edition, Addenda, No **Code Case** (b) Applicable Edition Section XI Utilized For R/R Activity 19 **98** Edition, Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Manufacturer **National** Other Corrected, **ASME** Name of Name of Year Component Manufacturer Serial Number Board No. Identification Built Removed, Code or Installed Stamped (Yes / No) UNK Item #9 1998 NO Valve 2LP-0048 Crane Nuclear C7871 Installed 7. Description of Work Replace Retaining ring 8. Test Conducted Nominal Operating Pressure Exempt Other Visual inspection Hydrostatic Pneumatic

Test Temperature

PSI

Pressure

۰F

As required by the provisions of the Asivie Code Section Ar	Work Order Number	Sheet
		· ·
9. Remarks (Applicable Manufacturer's Data Reports to be attached)	98626098	2 of 2
1		
βνέμμες Δ Β - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Replaced internal retaining ring - Item #9 on drawing OM 245 0001 001		
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8		
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6		ļ
6		
9		
<u> </u>		
9		
0		
CERTIFICATE OF COMPLIA	NOT	
I certify that the statements made in the report are correct and that the		anto of the
ASME Code, Section XI.	.IIIS CUITIUTTIS to tise reguneria	MIS OF THE
	pplicable	
		11 -1.1 -
	/	pplicable
	Date 1/31/06	
Owner or Owner's Designee, Title		
CERTIFICATE OF INSERVICE INS		_
I, the undersigned, holding a valid commission issued by the Nation Inspectors and the State or Province of North Carolina		re Vessel ISB CT
of Hartford, Connecticut	have inspected the comp	
in this Owner's Report during the period 2-16-04 t	10 2-16-06	, and state that
to the best of my knowledge and belief, the Owner has performed	examinations and taken co	
described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employed		
concerning the examinations and corrective measures described in t	this Owner's Report. Furthe	rmore, neither the
Inspector nor his employer shall be liable in any manner for any person		
kind arising from or connected with this inspection.		
Commissions No	21444 NIMBC	
	~ / / / / / / / / / / / / / / / / / / /	
Inspector's Signature Date 2/16/66	National Board, State, Province, an	d Endorsements

PIP Serial No. Action Category: LER No. Other Report 0-06-01571

Problem Identification

Discovered Time/Date:

14:29 03/20/2006

Occurred Time/Date:

Unit(s) Affected:

<u>Unit</u>

Mode

%Power Unit Status Remarks

N/A

100

operating

System(s) Affected:

2

FDW

Feedwater

RC

Reactor Coolant

Affected Equipment

(No Equipment Affected)

Location of Problem:

Bldg:

Column Line:

Elev:

Location Remarks:

Method Used to Discover Problem:

Final Q. A. review of work order packages

Brief Problem Description:

ASME Section XI repair/replacement NIS-2 forms and report completions for work orders mentioned in detailed problem discription.

Detail Problem Description:

The pip is also to capture other work orders that maintenance has held pending engineering information or needed documentation required to satisfy QA or ANII requirements for final review. These work orders will be captured in actual CA 1 of this pip.

Last Updated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS :Date: 04/10/2006

Please consider this as a category 4 pip, for tracking and trending only!

This pip is being generated to identify NIS-2 report not being filed for ASME Section XI component within 45 day time frame after start-up of refueling outage. The work was not sent to QA for final review until the mid February.

Work Order 98727683 for components associated with the 2B2 RC Pump Motor. The work order has the ISI class listed as class "C" but Engineering has listed the components that were noted as corrected, as ISI Class "B".

Please reference pips 06-00750 & 01083 as similar examples of this pip.

Also please include work order package 98669959-01 for hanger number 2-03-0-1480A-H7A component class "B" material replacement. Please reference pip 06-00476 written by Maintenance which was closed before this work order package could be added.

Please keep pip open if possible to make other entries of work orders numbers for same discrepancy as mentioned above:

TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 03/20/2006

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

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

Immediate Corrective Actions:



<u>Immediate Corrective Action Documents / Work Orders:</u>

Problem Identified By:

Indiv Team TRB6214WTM5506

Group IWS Date 03/20/2006

Problem Entered By:

TRB6214WTM5506

IWS

03/20/2006

Corrective Actions

CA Seq. No: 1

Resp.	Group Status	Orig Group	p. Event Code	Prop CA	C Cause Code	
IWS	Closed	IWS	O2a	Е	R	_ [

Proposed Corrective Action:

To enter applicable work packages that are received for QA final review that contain ASME Section XI components that require NIS-2 reports need to be submitted to the General Office for NRC with in the 45 day window after start up of the applicable units RFO.

Originated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 03/22/2006

		ing it ream. ·· ringsee Gr	oup. 1 5 2 att. 0	-5, <u>22,2</u> 000	
Signature Type	Indiv.	Team	Group ::	o Date ⊬ j≟	
Approval Assigned To:	WTM5506	WTM5506	IWS	03/22/2006	
Assigned To:	TRB6214	WTM5506	IWS	03/29/2006	
Ready For Approval:	TRB6214	WTM5506	IWS	03/29/2006	
Approved By:	WTM5506	WTM5506	IWS	03/29/2006	

General: Outage: N/A

Mode: N/A

Other Tracking Processes
Type Number Text

Actual Corrective Action:

Priority: I3b

Actual CAC: J

Status: Open

Due Date: 05/04/2006

Work order 98624863-10 should be added to this pip to identify another work order that was held by Mnt. and was not captured in pip 06-00476.

Last Updated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 04/25/2006

Work Order 98657709-01 should be included in this pip for ASME Section XI QA review 2 years after installation.

Last Updated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 04/17/2006

Work Order 98626098-001 was statused to Maintenance 04/13/05 and received back in QA and ANII 02/16/06.

Last Updated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 04/10/2006

The following work order package was received past the 45 day window after start up of unit 2 RFO and for submitting required NIS-2 report to peral Office.

PIP No:-0-06-01571=

04/25/2006 13:49

***** Work Order package 98742091 NIS-2 form was initiated by Accountable Engineer on 2/09/2006- 24 days past deadline and actual work was completed at the end of November 2005 for MOD package #OD200349.

riginated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 03/29/2006

Signature Type	olndiv	Team	Group.	Date A Date
Assigned To:	TRB6214	WTM5506	IWS	03/22/2006
Accepted By:	WTM5506	WTM5506	IWS	03/29/2006
Due Date:	05/04/2006		_	

4

End of the Document for PIP No: The status of this PIP is:

o: O-6-1571 Screened

The duration of this PIP was:

2 days

duration of this i ii was.

1,	Own R	Duke Power 526 S. Churc	Company In Street, Charlotte, NC 2	8201-1006					1 of _
2.		Ocones Nucl 7800 Roche	lear Station ester Hwy. Seneca; S	.C. 29672				· ·	<u>_</u> Ψ
2a.	Unit []1 [2]	l2 □3 □sh	ared (specify Units		.)	de Cardo	986699	59-01
3.	Address 528	S. Church S	Power Company Street, Charlotte, NC 282 N/A Authorization No. N	01-1008 /A Expiration Date N/A				# <u>986699</u> Repair Organia # <u>//</u>	
4.	Identification	of System	Feedwater	Class	3	•			
	(b) Applicable CC and	le Edition of a	on Code <u>B31, 7</u> Section XI Utilized for Rep Ports.) nts Repaired or Replaced	airs or Replacements 198	39, No Addenda	ddenda, // A (1992 through	1992 A	ddenda for Clas	_Code Cases • MC and
	Colu	mn 1	Column 2	Column 3	Column 4	Column 5	Col. 6	Column 7	Column 8
				1			1		•••••
	Name of C	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	Hydraulic	C So 2	Name of Manufacturer		Board Number	identification Ref Number 200 505 1770		Repaired, Replaced, or Replacement Repaired Replaced Replaced	ASME Code Stamped
-	Hydrauli	c (o.2		Serial Number	Board Number	identification Betwander 200 305 1770 UTC 3975	Built	Replaced, or Replacement Replaced Replaced Replacement Replacement Replaced	ASME Code Stamped (yes or no)
-	Hydrauli Suppress Hydrauli Suppress	c (o.2	GRINNELL/ANVIL	Serial Number	Board Number	identification Ref Number 200 505 1770	Built	Replaced, or Replacement Replaced Replaced Replacement Replacement Replaced	ASME Code Stamped (yes or no) No Yes No

E

F

☐ Yes

□ No

☐ Yes

No

Repaired
Replaced
Replacement

☐ Repaired
☐ Replaced
☐ Replacement

8 1/2 in. x	11 to (2) information in items 1 thro	ketches, or drawings may be used, provided (1) ugh 6 on this report is included on each sheet, a sets is recorded at the top of this form.	siz: and
7. Description	Of WORK Replaced exististing	Suppressed with landiquestical Type A	
8. Test Condu	ucted: Hyprostatic Pneumatic N	ominal Operating Pressure Other Exempt	<u>I</u>
	Pressurepsig Pressurepsig Pressurepsig	Test Temp°F Test Temp°F Test Temp°F	
9. Remarks	Haran Number 3-0 Eginpout # FDWHS 007	3-0-1480H-H7H	-
·	(Applicable Manufacturer's D	sta Records to be attached)	-
	ertify that the statements made in the report a	TE OF COMPLIANCE ure correct and this repair or replacement	
	to the rules of the ASME Code, Section XI.		
	e Symbol Stamp <u>N/A</u> of Authorization No. <u>N/A</u>	Expiration Date <u>N/A</u>	
Signed _	Owner or Owner's Designee, Title	Support Date 3/2006 19_TRO	
<u> </u>			
İ	CERTIFICATE OF	INSERVICE INSPECTION	
Vessel Ins Harrion C 3 20 0 performed requireme By signing concernin	pectors and the State or Providence of Note connecticut have inspected the components of to 3-20-04; and state that examinations and taken corrective measure into of the ASME Code, Section XI. This certificate neither the Inspector nor his of the examinations and corrective measures	by the National Board of Boiler and Pressure THE CRECULA and employed by HSBI and I Compa described in this Owner's Report during the period to the best of my knowledge and belief, the Owner has s described in this Owner's Report in accordance with the employer makes any warranty, expressed or implied; described in this Owner's Report. Furthermore, neither the er for any personal injury or property damage or a loss of	18
	g from or connected with this inspection	, ,	•
	Commissions Commissions	NC1444 NIRBC	
	20-06 15/10/06	National Board, State, Providence and Encorsements	
,			

Revision 4

PIP Serial No: Action Category, LER No: Other Report: O-06-01571

Problem Identification

Discovered Time/Date:

14:29 03/20/2006

Occurred Time/Date:

Unit(s) Affected:

Unit

%Power Unit Status Remarks

2 N/A

100 operating

System(s) Affected:

FDW RC

Feedwater

Reactor Coolant

Affected Equipment

(No Equipment Affected)

Location of Problem:

Bldg:

Column Line:

Elev:

Location Remarks:

Method Used to Discover Problem:

Final Q. A. review of work order packages

Brief Problem Description:

he ASME Section XI repair/replacement NIS-2 forms and report completions for work orders mentioned in detailed problem discription.

Detail Problem Description:

Please consider this as a category 4 pip, for tracking and trending only!

This pip is being generated to identify NIS-2 report not being filed for ASME Section XI component within 45 day time frame after start-up of refueling outage. The work was not sent to QA for final review until the mid February.

Work Order 98727683 for components associated with the 2B2 RC Pump Motor. The work order has the ISI class listed as class "C" but Engineering has listed the components that were noted as corrected, as ISI Class "B".

Please reference pips 06-00750 & 01083 as similar examples of this pip.

Also please include work order package 98669959-01 for hanger number 2-03-0-1480A-H7A component class "B" material replacement. Please reference pip 06-00476 written by Maintenance which was closed before this work order package could be added.

Please keep pip open if possible to make other entries of work orders numbers for same discrepancy as mentioned above:

TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 03/20/2006

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

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

Immediate Corrective Actions:

Immediate Corrective Action Documents / Work Orders:

Date <u>Indiv</u> Group <u>Team</u>

Form NIS-2 Owner's Report for Repair/Replacement Activity

As required by the pro	ovisions of the ASMI	E Code Section XI		Work Order Nun	nher	Sheet		
							1 of 2	
				9870	1009		01 2	
1. Owner		2. PI	ant			Unit		
	ver Company			clear Station		O	NS - 2	
	Church Street		7800 Roch	•			e Sheet 2 of 2	
	, NC 28201-1006		Seneca, SC			2/′.	27/06	
3. Work Performed	-			Type Code Sym		pplicable		
1	wer Company h Church Street	•		Authorization N		pplicable		
	, NC 28201-1006	Ó		Expiration Date		pplicable		
4. Identification of	System, ASME C	lass						
	A Reactor Buildi	ng Cooling Unit	(RBCU) Coils,	ASME Class 2	See She	et 2 of 2		
5. (a) Applicable Cons	struction Code:	USAS B31.7	19 69	Edition, No	Adden	da, No	Code Case	
(b) Applicable Editi		ed For R/R Activity	19 98	Edition, 2000	Adden	da.		
(c) Applicable Sect	ion 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 RBCU Coils See Item (1) in Remarks Section	Aerofin Corporation	Not available	Not available	None	1994	Corrected	YES	
7. Description of	(Work	<u> </u>	<u> </u>				<u> </u>	
PM on the 2A RE channel head. The diameter LPSW p	BCU Coils (tube coils involved disassopping bolting mat	sembling the Low erial for the pipin	Pressure Service g-to-coil flanges	equired disassembe (LPSW) piping f required replacentes were installed in	rom the onent due to	coils. The 5/8 to surface degr	-inch adation.	
8. Test Conducte Hydrosi		tic Nominal (Operating Pressure Test Temp		Other	pressure test		

	Work Order Number	Sheet			
	98701069	2 of 2			
9. Remarks (Applicable Manufacturer's Data Reports to be attached)					
Replaced one hundred twenty-eight (128) 5/8-inch diameter nuts and sixty-fo Coil flanges (UTC # 0001074343, Stock Code 293556, and UTC # 000107419 Installed stiffener sleeves in selected tube ends of the 2A coils (approximately 5 number 5055094-002, Stock Code # 576062, UTC # 0001083956.	25, Stock Code # 297412)				
The original NIS-2, completed on 11/16/05, incorrectly iden	ntified the ASME class of the sys	stem as Class 3,			
instead of Class 2. This NIS-2 has been corrected to reflect the	ne Class 2 (ISI Class B) designat	ion of the LPSW			
System. (Reference PIP O-06-01083.) AH Batton 2/27/06					
<u> </u>					
0					
8					
9					
CERTIFICATE OF COMPLIAN	ICF				
I certify that the statements made in the report are correct and that the		ents of the			
ASME Code, Section XI.					
Type Code Symbol Stamp Not A	pplicable				
		pplicable			
Signed James H Batton engineer [Owner or Owner's Designee, Title	Date 2/27/06	.			
Owner or owner's Designee, Title					
CERTIFICATE OF INSERVICE INS	PECTION				
		re Vessel			
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Located and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 1-5-05 to 5-1/-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.					
Commissions NC Inspector's Signature	1444 SIABC National Board, State, Province, an	d Endorsements			
Date 4-11-06					

PIP Serial No:	Action	Category: LER No: Other Report:
O-06-01083	3	

Problem Identification

Discovered Time/Date:

12:14 02/27/2006

Occurred Time/Date:

Unit(s) Affected:

Unit Mode

%Power Unit Status Remarks

N/A

System(s) Affected:

LPS RBC Low Pressure Service Water Reactor Building Cooling

Affected Equipment

WMS, Equipment Code	. Unit Co	de System Code	Type Code	Suffix	ECode	Manufacturer
ON2RBCHX000B	2	RBC	HX	000B	181543	
ON2RBCHX000C	2	RBC	HX	000C	181544	
ON2RBCHX000A	2	RBC	HX	000A	181542	

Location of Problem:

Bldg:

Column Line:

Elev:

Location Remarks:



QA Review of ONS-2 EOC-21 related NIS-2's in WO packages.

Brief Problem Description:

The ASME Section XI repair/replacement NIS-2 forms completed for the 2A, 2B and 2C RBCU coil repairs incorrected identified the ISI class as C rather than B.

Detail Problem Description:

The ASME Section XI repair/replacement activity NIS-2 forms completed for the 2A, 2B and 2C RBCU repairs during Unit 2 EOC-21 outage incorrectly identified the In-service Inspection (ISI) class for the cooler as "C", whereas it should have been designated as ISI Class "B". The Reactor Building Cooling Unit Coils, as components, are constructed to ASME Section III Class 3 (Class C). However, they are contained within the Low Pressure Service Water (LPSW) piping system which is designated as Duke Class F, ISI Class B.

From an ISI standpoint, the LPSW piping bolt material replacement performed under the referenced Work Orders below should have been treated as ISI Class B, since the flanged bolted connections are part of the system. The cooling coil tube plugging and sleeving repairs performed under the same Work Orders could have been treated as ISI Class C, since they are repairs to the coils themselves and not the system. Conservatively no distinction is being made and the entire repair scope is being treated as ISI Class B.

References:

OFD-124B-2.2

OM 235-0513 - RBCU Cooling Coil outline drawing

Work-Order # 98701069 task 01 - 2A RBCU

Work Order # 98704023 task 01 - 2B RBCU

Work Order # 98701070 task 01 - 2C RBCU

The ASME Section XI report submitted to the NRC after a refueling outage is only required to include repair/replacement documentation (NIS-2's) associated with class A and B repair/replacements. Since the Section XI documentation for the 2A, 2B and 2C RBCU Cooling Coil repairs was incorrectly designated as Class C, it was not included in the last NRC report.

he Section XI documentation (NIS-2 forms) needs to be corrected and submitted to the NRC with the next Section XI report. This is a documentation only issue.

his is similar to the incorrect designation of ISI Class that occurred for the 2A Letdown Cooler replacement, documented in PIP O-06-00750.)

Originated By: JHB7315: BATTON, JAMES H Team: PMS7313 Group: MCE Date: 02/27/2006

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

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

Immediate Corrective Actions:

Immediate Corrective Action Documents / Work Orders:

	<u> ⊸ Indiv</u>	<u>Team</u>	<u>Group</u>	<u>Date</u>
Problem Identified By:	JHB7315 P	MS7313	MCE	02/27/2006
Problem Entered By:	JHB7315 P	MS7313	MCE	02/27/2006

Problem Evaluation

Event	Cause Code	Cause Description	Primary	Causing Groups
O2a	F3e	Self-checking not applied to ensure intended actio	Yes	мсе

<u>Problem Evaluation From:</u> Resp. Group: MCE Status: Closed OEDB Checked: Yes

rovided additional information in Problem Evaluation below.

Last Updated By: JHB7315: BATTON, JAMES H Team: PMS7313 Group: MCE Date: 03/09/2006

PROBLEM DESCRIPTION:

The ASME Section XI repair/replacement activity NIS-2 forms completed for the 2A, 2B and 2C RBCU repairs during Unit 2 EOC-21 outage incorrectly identified the In-service Inspection (ISI) class for the coolers as "C", whereas it should have been designated as ISI Class "B". The Reactor Building Cooling Unit Coils, as components, were constructed to ASME Section III Class 3 (Class C). However, they are contained within the Low Pressure Service Water (LPSW) piping system which is designated as Duke Class F, ISI Class B (Class 2).

INAPPROPRIATE ACTION:

This was a human error that occurred in completing Line 4 of the NIS-2 form. The ASME Class for the RBCU Coil repairs (bolting replacement and tube plugging/sleeving) should have been designated to be "Class 2" instead of "Class 3" to be consistent with the class designation for the LPSW System.

SYSTEM EQUIPMENT PROBLEM:

N/A - No system or equipment problem associated with this incident.

APPARENT CAUSE:

The Apparent Cause is unsufficient understanding of the Section XI program and lack of questioning attitude by the MCE VHE engineer in completing the NIS-2 form - a relatively new, infrequently performed activity for the engineer.

The MCE VHE Engineer completing the NIS-2 should have had more of a questioning attitude in completing the form and should have reviewed S.D. 2.1.9, ASME Section XI Repair/Replacement. On the NIS-2 form, Line 4, Identification of System, ASME Class, clearly requests the class esignation for the "system", which would be Class 2 for the LPSW system in the case of the RBCU Coil flange bolting replacement and tube plugging/sleeving activities.

discussing this further with the MCE Repair/Replacement Program engineer, in Line 4 of the NIS-2 the "ASME Class" has basically two eanings:

- 1) when working on a system or replacing a component in the system the ASME class is the system construction code class or ISI class.
- 2) when repairing a component such as welding plugs in a heat exchanger tube or replacing the disc in a valve, the ASME class is determined from the construction code of the component (or if that is unknown it is the construction code for the system).

Thus, there could be times in component repair in which Line 4 of the NIS-2 would NOT be the ASME Class of the system, but rather the Class to which the component was constructed. (For example, just plugging tubes in a RBCU Coil could be classified as a ASME Class 3, the construction code for the coils, whereas replacing the bolting that connects the RBCU Coil flanges to the LPSW piping flanges would need to be Class 2, consistent with the LPSW piping classification.)

For the RBCU Coil NIS-2's in question, the Line 4 "ASME Class" was unfortunately identified incorrectly by the MCE VHE engineer and needed to be corrected.

SUPPORTING INFORMATION:

Side note: This event is nearly identical to the incorrect NIS-2 form completion documented in PIP O-06-0750 on the Unit 2A Letdown Cooler replacement. The NIS-2 forms for the Letdown Cooler and for the RBCU coils addressed in this PIP were completed at about the same time, fall 2005, by the same MCE VHE engineer.

CORRECTIVE ACTIONS:

The NIS-2 forms for the 2A, 2B and 2C RBCU Coil maintenance were rewritten with the proper ISI Class identified. The NIS-2's were re-routed to the ASME Section XI Reviewer, the ANII and QA. The rewritten NIS-2 included a footnote with a brief description of the changes made and a reference to this PIP for historical purposes.

The MCE VHE engineer has reviewed S.D. 2.1.9 and become more familiar with the requirements and intent of the NIS-2 form.

No additional corrective actions are required for this PIP.

OEDB Comments:

OEDB search performed using Description keywords: NIS-2, Section XI, ASME Class 2, 3.

No pertinent operating experience items were found.

Originated By: JHB7315: BATTON, JAMES H Team: PMS7313 Group: MCE Date: 03/08/2006

Remarks Comments:

Signature Type	Indiv.	Team	Group %	Date	
Due Date:	03/29/2006				
Accepted By:	PMS7313	PMS7313	MCE	03/02/2006	
Assigned To:	JHB7315	PMS7313	MCE	03/02/2006	
Approval Assigned To:	PMS7313	PMS7313	MCE	03/09/2006	
Ready For Approval:	JHB7315	PMS7313	MCE	03/09/2006	
Approved By:	PMS7313	PMS7313	MCE	03/13/2006	

and of the Document for PIP No: The status of this PIP is: O-6-1083 Closed

As required by the provisions of the ASIVIE	, 00 00 0000000000000000000000000000000		Work Order Nur	nber	Sheet	· · · · · · · · · · · · · · · · · · ·
•			9870	1070	1 o	f 2
1. Owner	2. P	lant			Unit	
Duke Power Company		Oconee Nuc	lear Station		Ol	NS - 2
526 South Church Street		7800 Roche	•			Sheet 2 of 2
Charlotte, NC 28201-1006	Charlotte, NC 28201-1006 Seneca, SC 29672			2/27	7/2006	
3. Work Performed by	E		Type Code Sym		oplicable	
Duke Power Company			Authorization N			
526 South Church Street			Addionization		oplicable	
Charlotte, NC 28201-1006			Expiration Date			
A Identification of Control Action Co				Not Ap	oplicable	
4. Identification of System, ASME Cla 2C Reactor Buildi	ass ing Cooling Unit	(RBCU) Coils,	ASME Class 2	See Shee	t 2 of 2	
 (a) Applicable Construction Code: (b) Applicable Edition Section XI Utilize (c) Applicable Section XI Code Case(s) 	=		Edition, No 2000	Addend	, 	Code Case
6. Identification of Components						
Name of Name of Component Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2C RBCU Coils See Item (1) in Remarks Section Aerofin Corporation	Not available	Not available	None	1994	Corrected	YES
		F				.:
				1		
-						
7. Description of Work	<u></u>		***		<u> </u>	1
PM on the 2C RBCU Coils (tube cle channel head. This involved disass diameter LPSW piping bolting mate Additionally, due to coil tube inlet experience.	embling the Loverial for the piping	v Pressure Service ng-to-coil flanges	(LPSW) piping to required replacen	from the conent due t	coils. The 5/8- to surface degra	-inch adation.
8. Test Conducted						
Hydrostatic Pneumat	tic Nominal	Operating Pressure	Exempt 2	Other	pressure test	

	Work Order Number	Sheet				
	98701070	2 of 2				
9. Remarks (Applicable Manufacturer's Data Reports to be attached)						
• Replaced one hundred twenty-eight (128) 5/8-inch diameter nuts and sixty-fical flanges (UTC # 0001074343, Stock Code 293556, and UTC # 000107419		on the 2C RBCU				
Installed stiffener sleeves in selected tube ends of the 2C coils (approximately 5 number 5055094-002, Stock Code # 576062, UTC # 0001083956.	0 sleeves in each of the 4 coils).	Framatome part				
2						
The original NIS-2, completed on 11/16/05, incorrectly idea	ntified the ASME class of the sys	stem as Class 3,				
instead of Class 2. This NIS-2 has been corrected to reflect the	ne Class 2 (ISI Class B) designat	ion of the LPSW				
System. (Reference PIP O-06-01083.)	2/27/06					
6						
0						
8						
9						
CERTIFICATE OF COMPLIAN	ICE					
I certify that the statements made in the report are correct and that the ASME Code, Section XI.	his conforms to the requireme	nts of the				
Type Code Symbol Stamp Not A	pplicable					
Certificate of Authorization Number Not Applicable	Expiration Date Not A	pplicable				
Signed James H Sattors, engineer 1	Date 2/27/06					
Jowner of Owner's Designee, Title						
CERTIFICATE OF INCERVICE INC		1				
CERTIFICATE OF INSERVICE I		a Vassal				
		ISB CT				
of Hartford, Connecticut	have inspected the comp					
in this Owner's Report during the period 1-5-05 to 4-11-06 , 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 kind arising from or connected with this inspection.	onal injury or property damag	e or a loss of any				
Commissions	181816h rines					
Inspector's Signature Commissions	National Board, State, Province, an	d Endorsements				
Date 4-11-06						

PIP Serial No:	Action	Category: LER:No: Other Report:
O-06-01083	3	

Problem Identification

Discovered Time/Date:

12:14 02/27/2006

Occurred Time/Date:

Unit(s) Affected:

Unit Mode

%Power Unit Status Remarks

N/A

System(s) Affected:

LPS

Low Pressure Service Water

RBC

Reactor Building Cooling

Affected Equipment

WMS Equipment Co	ode Unit Co	le System Code	Type Cod	e Suffix	ECode ***	Manufacturer.
ON2RBCHX000B	2	RBC	HX	000B	181543	
ON2RBCHX000C	2	RBC	HX	000C	181544	
ON2RBCHX000A	2	RBC	HX	000A	181542	

Location of Problem:

Bldg:

Column Line:

Elev:

Location Remarks:

Alethod Used to Discover Problem:

QA Review of ONS-2 EOC-21 related NIS-2's in WO packages.

Brief Problem Description:

The ASME Section XI repair/replacement NIS-2 forms completed for the 2A, 2B and 2C RBCU coil repairs incorrected identified the ISI class as C rather than B.

Detail Problem Description:

The ASME Section XI repair/replacement activity NIS-2 forms completed for the 2A, 2B and 2C RBCU repairs during Unit 2 EOC-21 outage incorrectly identified the In-service Inspection (ISI) class for the cooler as "C", whereas it should have been designated as ISI Class "B". The Reactor Building Cooling Unit Coils, as components, are constructed to ASME Section III Class 3 (Class C). However, they are contained within the Low Pressure Service Water (LPSW) piping system which is designated as Duke Class F, ISI Class B.

From an ISI standpoint, the LPSW piping bolt material replacement performed under the referenced Work Orders below should have been treated as ISI Class B, since the flanged bolted connections are part of the system. The cooling coil tube plugging and sleeving repairs performed under the same Work Orders could have been treated as ISI Class C, since they are repairs to the coils themselves and not the system. Conservatively no distinction is being made and the entire repair scope is being treated as ISI Class B.

References:

OFD-124B-2.2

OM 235-0513 - RBCU Cooling Coil outline drawing

Work Order # 98701069 task 01 - 2A RBCU

Work Order # 98704023 task 01 - 2B RBCU

Work Order # 98701070-task-01--2C-RBCU

The ASME Section XI report submitted to the NRC after a refueling outage is only required to include repair/replacement documentation (NIS-2's) associated with class A and B repair/replacements. Since the Section XI documentation for the 2A, 2B and 2C RBCU Cooling Coil repairs was incorrectly designated as Class C, it was not included in the last NRC report.

he Section XI documentation (NIS-2 forms) needs to be corrected and submitted to the NRC with the next Section XI report. This is a documentation only issue.

This is similar to the incorrect designation of ISI Class that occurred for the 2A Letdown Cooler replacement, documented in PIP O-06-00750.)

Originated By: JHB7315: BATTON, JAMES H Team: PMS7313 Group: MCE Date: 02/27/2006

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

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

Immediate Corrective Actions:

<u>Immediate Corrective Action Documents / Work Orders:</u>

	⊸ <u>Indiv</u>	<u>Team</u>	Group	<u>Date</u>
Problem Identified By:	JHB7315 P	MS7313	MCE	02/27/2006
Problem Entered By:	JHB7315 P	MS7313	MCE	02/27/2006

Problem Evaluation

Event	Cause Code	Cause Description	Primary	Causing Gr	W. T. T
O2a	F3e	Self-checking not applied to ensure intended actio	Yes	MCE	

Problem Evaluation From: Resp. Group: MCE Status: Closed OEDB Checked: Yes

Provided additional information in Problem Evaluation below.

Last Updated By: JHB7315: BATTON, JAMES H Team: PMS7313 Group: MCE Date: 03/09/2006

PROBLEM DESCRIPTION:

The ASME Section XI repair/replacement activity NIS-2 forms completed for the 2A, 2B and 2C RBCU repairs during Unit 2 EOC-21 outage incorrectly identified the In-service Inspection (ISI) class for the coolers as "C", whereas it should have been designated as ISI Class "B". The Reactor Building Cooling Unit Coils, as components, were constructed to ASME Section III Class 3 (Class C). However, they are contained within the Low Pressure Service Water (LPSW) piping system which is designated as Duke Class F, ISI Class B (Class 2).

INAPPROPRIATE ACTION:

This was a human error that occurred in completing Line 4 of the NIS-2 form. The ASME Class for the RBCU Coil repairs (bolting replacement and tube plugging/sleeving) should have been designated to be "Class 2" instead of "Class 3" to be consistent with the class designation for the LPSW System.

SYSTEM EQUIPMENT PROBLEM:

N/A - No system or equipment problem associated with this incident.

APPARENT CAUSE:

The Apparent Cause is unsufficient understanding of the Section XI program and lack of questioning attitude by the MCE VHE engineer in completing the NIS-2 form - a relatively new, infrequently performed activity for the engineer.

The MCE VHE Engineer completing the NIS-2 should have had more of a questioning attitude in completing the form and should have reviewed S.D. 2.1.9, ASME Section XI Repair/Replacement. On the NIS-2 form, Line 4, Identification of System, ASME Class, clearly requests the class esignation for the "system", which would be Class 2 for the LPSW system in the case of the RBCU Coil flange bolting replacement and tube plugging/sleeving activities.

discussing this further with the MCE Repair/Replacement Program engineer, in Line 4 of the NIS-2 the "ASME Class" has basically two meanings:

1) when working on a system or replacing a component in the system the ASME class is the system construction code class or ISI class.

2) when repairing a component such as welding plugs in a heat exchanger tube or replacing the disc in a valve, the ASME class is determined from the construction code of the component (or if that is unknown it is the construction code for the system).

Thus, there could be times in component repair in which Line 4 of the NIS-2 would NOT be the ASME Class of the system, but rather the Class to which the component was constructed. (For example, just plugging tubes in a RBCU Coil could be classified as a ASME Class 3, the construction code for the coils, whereas replacing the bolting that connects the RBCU Coil flanges to the LPSW piping flanges would need to be Class 2, consistent with the LPSW piping classification.)

For the RBCU Coil NIS-2's in question, the Line 4 "ASME Class" was unfortunately identified incorrectly by the MCE VHE engineer and needed to be corrected.

SUPPORTING INFORMATION:

Side note: This event is nearly identical to the incorrect NIS-2 form completion documented in PIP O-06-0750 on the Unit 2A Letdown Cooler replacement. The NIS-2 forms for the Letdown Cooler and for the RBCU coils addressed in this PIP were completed at about the same time, fall 2005, by the same MCE VHE engineer.

CORRECTIVE ACTIONS:

The NIS-2 forms for the 2A, 2B and 2C RBCU Coil maintenance were rewritten with the proper ISI Class identified. The NIS-2's were re-routed to the ASME Section XI Reviewer, the ANII and QA. The rewritten NIS-2 included a footnote with a brief description of the changes made and a reference to this PIP for historical purposes.

The MCE VHE engineer has reviewed S.D. 2.1.9 and become more familiar with the requirements and intent of the NIS-2 form.

No additional corrective actions are required for this PIP.

OEDB Comments:

OEDB search performed using Description keywords: NIS-2, Section XI, ASME Class 2, 3.

No pertinent operating experience items were found.

Originated By: JHB7315: BATTON, JAMES H Team: PMS7313 Group: MCE Date: 03/08/2006

Remarks Comments:

Signature Type	Indiv	Team	Group -	Date	
Due Date:	03/29/2006			-	
Accepted By:	PMS7313	PMS7313	MCE	03/02/2006	
Assigned To:	JHB7315	PMS7313	MCE	03/02/2006	
Approval Assigned To:	PMS7313	PMS7313	MCE	03/09/2006	
Ready For Approval:	JHB7315	PMS7313	MCE	03/09/2006	
Approved By.	PMS7313	PMS7313	MCE	03/13/2006	

End of the Document for PIP No: The status of this PIP is: O-6-1083 Closed

As required by the pro	visions of the Asivii	2 code section XI		Work Order Nu	ımber	Sheet			
				98704023		1 0	1 of 2		
1. Owner			lant			Unit			
Duke Power Company 526 South Church Street Charlotte, NC 28201-1006			Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672			Date X See	ONS - 2 Date See Sheet 2 of 2 2/27/2006		
3. Work Performe	d by			Type Code Syr		pplicable			
	wer Company h Çhurch Street			Authorization	Authorization Number Not Applicable				
	, NC 28201-1006	5		Expiration Dat	Expiration Date Not Applicable				
4. Identification of	f System, ASME CI 2B Reactor Build		(RBCU) Coils	ASME Class 2					
5. (a) Applicable Constitution (b) Applicable Editi (c) Applicable Sect 6. Identification of	struction Code: on Section XI Utilize ion XI Code Case(s	USAS B31.7 ed For R/R Activity		Edition, No Edition, 2000	Addend	da, <u>No</u> (Code Case		
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 RBCU Coils See Item (1) in Remarks Section	Aerofin Corporation	Not available	Not available	None	1994	Corrected	YES		
	-		-						
						1			
	.,								
•	。 BCU Coils (tube cl	embling the Low erial for the pipin	Pressure Service Pressure Service Pressure Service Pressure Service Pressure Pressur	e (LPSW) piping required replace	from the coment due t	oils. The 5/8- to surface degra	inch adation.		
8. Test Conducto	ed	tic Nominal	Operating Pressure Test Temp	Exempt	N 21	pressure test			

	Work Order Number	Sheet			
	98704023	2 of 2			
9. Remarks (Applicable Manufacturer's Data Reports to be attached)					
• Replaced one hundred twenty-eight (128) 5/8-inch diameter nuts and sixty-fe Coil flanges (UTC # 0001074343, Stock Code 293556, and UTC # 000107828	30, Stock Code # 297412)	•			
Installed stiffener sleeves in selected tube ends of the 2B coils (approximately 5 number 5055094-002, Stock Code # 576062, UTC # 0001083956.	0 sleeves in each of the 4 coils).	Framatome part			
0					
The original NIS-2, completed on 11/16/05, incorrectly iden	ntified the ASME class of the sys	tem as Class 3,			
instead of Class 2. This NIS-2 has been corrected to reflect the	ne Class 2 (ISI Class B) designat	on of the LPSW			
System. (Reference PIP O-06-01083.)	L Z/27/06				
6					
0					
8					
9					
CERTIFICATE OF COMPLIAN	NCE				
I certify that the statements made in the report are correct and that the ASME Code, Section XI.	his conforms to the requireme	nts of the			
Type Code Symbol Stamp Not A	pplicable	<u> </u>			
Certificate of Authorization Number Not Applicable	Expiration Date Not A	pplicable			
Signed James H. Batton engineer [] Owner or Owner's Designee, Title	Date 2/27/06				
CERTIFICATE OF INSERVICE INS	PECTION				
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Neth Check and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 1-5-05 to 4-1/06, 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 person kind arising from or connected with this inspection. Commissions Inspector's Signature Date 4-11-06		·			

PIP Serial No:	a Action	Category: Other Report:
O-06-01083	3	

Problem Identification

Discovered Time/Date:

12:14 02/27/2006

Occurred Time/Date:

Unit(s) Affected:

Unit Mode

%Power Unit Status Remarks

N/A

N/A 100

System(s) Affected:

LPS

Low Pressure Service Water

RBC

Reactor Building Cooling

Affected Equipment

WMS Equipment Code	Unit Code	System Code	Type Code	Suffix	ECode Manufacturer
ON2RBCHX000B	2	RBC	HX	000B	181543
ON2RBCHX000C	2	RBC	HX	000C	181544
ON2RBCHX000A	2	RBC	HX	000A	181542

Location of Problem:

Bldg:

Column Line:

Elev:

Location Remarks:

ethod Used to Discover Problem:

QA Review of ONS-2 EOC-21 related NIS-2's in WO packages.

Brief Problem Description:

The ASME Section XI repair/replacement NIS-2 forms completed for the 2A, 2B and 2C RBCU coil repairs incorrected identified the ISI class as C rather than B.

Detail Problem Description:

The ASME Section XI repair/replacement activity NIS-2 forms completed for the 2A, 2B and 2C RBCU repairs during Unit 2 EOC-21 outage incorrectly identified the In-service Inspection (ISI) class for the cooler as "C", whereas it should have been designated as ISI Class "B". The Reactor Building Cooling Unit Coils, as components, are constructed to ASME Section III Class 3 (Class C). However, they are contained within the Low Pressure Service Water (LPSW) piping system which is designated as Duke Class F, ISI Class B.

From an ISI standpoint, the LPSW piping bolt material replacement performed under the referenced Work Orders below should have been treated as ISI Class B, since the flanged bolted connections are part of the system. The cooling coil tube plugging and sleeving repairs performed under the same Work Orders could have been treated as ISI Class C, since they are repairs to the coils themselves and not the system. Conservatively no distinction is being made and the entire repair scope is being treated as ISI Class B.

References:

OFD-124B-2.2

OM 235-0513 - RBCU Cooling Coil outline drawing

Work Order # 98701069 task 01 - 2A RBCU

Work Order-#-98704023-task 01-2B-RBCU-

Work Order # 98701070 task 01 - 2C RBCU

The ASME Section XI report submitted to the NRC after a refueling outage is only required to include repair/replacement documentation (NIS-2's) associated with class A and B repair/replacements. Since the Section XI documentation for the 2A, 2B and 2C RBCU Cooling Coil repairs was incorrectly designated as Class C, it was not included in the last NRC report.

e Section XI documentation (NIS-2 forms) needs to be corrected and submitted to the NRC with the next Section XI report. This is a documentation only issue.

This is similar to the incorrect designation of ISI Class that occurred for the 2A Letdown Cooler replacement, documented in PIP O-06-00750.)

Originated By: JHB7315: BATTON, JAMES H Team: PMS7313 Group: MCE Date: 02/27/2006

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

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

Immediate Corrective Actions:

Immediate Corrective Action Documents / Work Orders:

	<u> ⊸Indiv</u>	<u>Team</u>	<u>Group</u>	<u>Date</u>
Problem Identified By:	JHB7315 PN	AS7313	MCE	02/27/2006
Problem Entered By:	JHB7315 PN	AS7313	MCE	02/27/2006

Problem Evaluation

Event	Cause Code	Cause Description	Primar	y Causing Groups	
O2a	F3e	Self-checking not applied to ensure intended actio	Yes	MCE	

Problem Evaluation From: Resp. Group: MCE Status: Closed OEDB Checked: Yes

Provided additional information in Problem Evaluation below.

Last Updated By: JHB7315: BATTON, JAMES H Team: PMS7313 Group: MCE Date: 03/09/2006

PROBLEM DESCRIPTION:

The ASME Section XI repair/replacement activity NIS-2 forms completed for the 2A, 2B and 2C RBCU repairs during Unit 2 EOC-21 outage incorrectly identified the In-service Inspection (ISI) class for the coolers as "C", whereas it should have been designated as ISI Class "B". The Reactor Building Cooling Unit Coils, as components, were constructed to ASME Section III Class 3 (Class C). However, they are contained within the Low Pressure Service Water (LPSW) piping system which is designated as Duke Class F, ISI Class B (Class 2).

INAPPROPRIATE ACTION:

This was a human error that occurred in completing Line 4 of the NIS-2 form. The ASME Class for the RBCU Coil repairs (bolting replacement and tube plugging/sleeving) should have been designated to be "Class 2" instead of "Class 3" to be consistent with the class designation for the LPSW System.

SYSTEM EQUIPMENT PROBLEM:

N/A - No system or equipment problem associated with this incident.

APPARENT CAUSE:

The Apparent Cause is unsufficient understanding of the Section XI program and lack of questioning attitude by the MCE VHE engineer in completing the NIS-2 form - a relatively new, infrequently performed activity for the engineer.

The MCE VHE Engineer completing the NIS-2 should have had more of a questioning attitude in completing the form and should have reviewed S.D. 2.1.9, ASME Section XI Repair/Replacement. On the NIS-2 form, Line 4, Identification of System, ASME Class, clearly requests the class esignation for the "system", which would be Class 2 for the LPSW system in the case of the RBCU Coil flange bolting replacement and tube plugging/sleeving activities.

discussing this further with the MCE Repair/Replacement Program engineer, in Line 4 of the NIS-2 the "ASME Class" has basically two heanings:

- 1) when working on a system or replacing a component in the system the ASME class is the system construction code class or ISI class.
- 2) when repairing a component such as welding plugs in a heat exchanger tube or replacing the disc in a valve, the ASME class is determined from the construction code of the component (or if that is unknown it is the construction code for the system).

Thus, there could be times in component repair in which Line 4 of the NIS-2 would NOT be the ASME Class of the system, but rather the Class to which the component was constructed. (For example, just plugging tubes in a RBCU Coil could be classified as a ASME Class 3, the construction code for the coils, whereas replacing the bolting that connects the RBCU Coil flanges to the LPSW piping flanges would need to be Class 2, consistent with the LPSW piping classification.)

For the RBCU Coil NIS-2's in question, the Line 4 "ASME Class" was unfortunately identified incorrectly by the MCE VHE engineer and needed to be corrected.

SUPPORTING INFORMATION:

Side note: This event is nearly identical to the incorrect NIS-2 form completion documented in PIP O-06-0750 on the Unit 2A Letdown Cooler replacement. The NIS-2 forms for the Letdown Cooler and for the RBCU coils addressed in this PIP were completed at about the same time, fall 2005, by the same MCE VHE engineer.

CORRECTIVE ACTIONS:

The NIS-2 forms for the 2A, 2B and 2C RBCU Coil maintenance were rewritten with the proper ISI Class identified. The NIS-2's were re-routed to the ASME Section XI Reviewer, the ANII and QA. The rewritten NIS-2 included a footnote with a brief description of the changes made and a reference to this PIP for historical purposes.

The MCE VHE engineer has reviewed S.D. 2.1.9 and become more familiar with the requirements and intent of the NIS-2 form.

To additional corrective actions are required for this PIP.

OEDB Comments:

OEDB search performed using Description keywords: NIS-2, Section XI, ASME Class 2, 3.

No pertinent operating experience items were found.

Originated By: JHB7315: BATTON, JAMES H Team: PMS7313 Group: MCE Date: 03/08/2006

Remarks Comments:

Signature Type	Indiv	Team	Group	Date	
Due Date:	03/29/2006				
Accepted By:	PMS7313	PMS7313	MCE	03/02/2006	
Assigned To:	JHB7315	PMS7313	MCE	03/02/2006	
Approval Assigned To:	PMS7313	PMS7313	MCE	03/09/2006	
Ready For Approval:	JHB7315	PMS7313	MCE	03/09/2006	
Approved By:	PMS7313	PMS7313	MCE	03/13/2006	

End of the Document for PIP No: The status of this PIP is: O-6-1083 Closed

As required by the pro	ovisions of the ASMI	E Code Section XI		·	b - :		
				Work Order Nu		Sheet	£ 2
<u></u>				98727	7683-10		f 2
1. Owner		2. Pl				Unit	
	ver Company			clear Station		Oi	S - 2V
	Church Street		7800 Roch	•		Date	
Charlotte.	, NC 28201-1006		Seneca, SC	29672		11/9	9/2005
3. Work Performe	d by		`	Type Code Syr		pplicable	
	wer Company h Church Street			Authorization		pplicable	
	, NC 28201-1006	<u> </u>		Evaluation Dat		ppiicable	
				Expiration Dat		pplicable	
4. Identification of	f System, ASME CI		SW, ASME Clas	s 2	_		
5.		TIGAG D21 1	10 67	- N	<u>-</u>		
(a) Applicable Cons(b) Applicable Editi		USAS B31.1	$\frac{19}{19} \frac{67}{98}$	Edition, No 2000	Addend		Code Case
, , , , ,	ion XI Code Case(s	-	17	<u> </u>	Adden	ua.	
6. Identification of		,					
Name of	Name of	l Manufacturer	l National	l Other	Year	Corrected,	l ASME
Component	Manufacturer	Serial Number	Board No.	Identification	Built	Removed, or Installed	Code Stamped
						Of Ilistanea	(Yes / No)
2 RC MR		20.7604			1070		7.0
0004PUM	Westinghouse	2S-76P1	na	na	1970	Corrected	NO
			_				
			<u> </u>		_	ļ	
				<u> </u>		<u> </u>	
						 	
7 Docaring to a contract of	Mork		L		_}_		
7. Description of	work						
2 Took County to					.		
8. Test Conducte	r	tia Namis-1	Operating Pressure	[] E	7	PLS En Service 20	
Hydros	ratic Pneuma Pressure	ric Nominal (PSI	perating Pressure Test Tem	Exempt	Other <u>T</u> °F	in Service 21	KIN
i	1 1 C33U1 C	F31	restrem	Jei atul e	. L		

a-28-06

3 1 1 mg

	Work Order Number	Sheet
	98727683-10	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
Install new threaded rod/bolts on the LPSW flanges as follows: Thread Hex Nut, SC# 131549, 5/8-11, UNC-2B, SA563 Gr A, UTC# 1074008 Threaded Rod, SC# 297413, 3/4-10, UNC-2A, SA 193 GR B7, UTC# 1074 Hex Nut, SC# 131729, 3/4-10, UNC-2B, SA 194 GR 7 Threaded Rod, SC#297411, 1/2-13 UNC-2A, SA 193 Gr B7, UTC# 1079 Hex Nut, SC# 131512, 1/2-13 UNC-2B, SA563 GrC, UTC# 989650	77723	93 B7, UTC# 1083362
②		
6		
•		
6		
<u> </u>		
0		
③		
0		
©		
CERTIFICATE OF COM	PLIANCE	
I certify that the statements made in the report are correct and ASME Code, Section XI.	that this conforms to the require	ments of the
·	Not Applicable	
Certificate of Authorization Number Not Applicable	Expiration DateNo	Applicable
Signed Pall Sma Engineer Owner's Designee, Title	Date 11/17/05	
CERTIFICATE OF INSERVIC	E INSPECTION	
I, the undersigned, holding a valid commission issued by the N Inspectors and the State or Province of North Large In A	ational Board of Boiler and Press and employed by have inspected the co	HSB CT
in this Owner's Report during the period 9-25-05	to 2-28-06	, and state that
to the best of my knowledge and belief, the Owner has performed described in this Owner's Report in accordance with the requirement By signing this certificate neither the Inspector nor his emproper concerning the examinations and corrective measures described inspector nor his employer shall be liable in any manner for any kind arising from or connected with this inspection.	ents of the ASME Code, Section 2 uployer makes any warranty, ex d in this Owner's Report. Furt	XI. xpressed or implied, hermore, neither the
Commissions	NC1444NIABC	
Inspector's Signature	National Board, State, Province,	, and Endorsements

PIP Serial No:	/ totion out	egory: LER No: 🏎 🚎	Other Report:	Company of the Compan
O-06-01571	4			

Problem Identification

Discovered Time/Date:

14:29 03/20/2006

Occurred Time/Date:

Unit(s) Affected:

Unit

%Power Unit Status Remarks

N/A

100 operating

System(s) Affected:

2

FDW

Feedwater

RC

Reactor Coolant

Affected Equipment

(No Equipment Affected)

Location of Problem:

Bldg:

Column Line:

Elev:

Location Remarks:

Method Used to Discover Problem:

Final Q. A. review of work order packages

Brief Problem Description:

The ASME Section XI repair/replacement NIS-2 forms and report completions for work orders mentioned in detailed problem discription.

Detail Problem Description:

The pip is also to capture other work orders that maintenance has held pending engineering information or needed documentation required to satisfy QA or ANII requirements for final review. These work orders will be captured in actual CA 1 of this pip.

Last Updated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 04/10/2006

Please consider this as a category 4 pip, for tracking and trending only!

This pip is being generated to identify NIS-2 report not being filed for ASME Section XI component within 45 day time frame after start-up of refueling outage. The work was not sent to QA for final review until the mid February.

Work Order 98727683 for components associated with the 2B2 RC Pump Motor. The work order has the ISI class listed as class "C" but Engineering has listed the components that were noted as corrected, as ISI Class "B".

Please reference pips 06-00750 & 01083 as similar examples of this pip.

Also please include work order package 98669959-01 for hanger number 2-03-0-1480A-H7A component class "B" material replacement. Please reference pip 06-00476 written by Maintenance which was closed before this work order package could be added.

Please keep pip open if possible to make other entries of work orders numbers for same discrepancy as mentioned above:

TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 03/20/2006

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

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

				Work Order Num	ber	Sheet	
				98530	5821	1	of 2
1. Owner		2. PI	ant			Unit	
Duke Pow	er Company	ŀ	Oconee Nu	clear Station		O	NS - 2
	526 South Church Street		7800 Roche	ester Hwy		Date	
Charlotte,	NC 28201-1006		Seneca, SC	29672			/2006
3. Work Performed	d by			Type Code Symi		oplicable	
Duke Pov	ver Company			Authorization Nu			•
	Church Street		·	Authorization No		oplicable	
Charlotte	NC 28201-1006	•		Expiration Date			
			•		Not Ap	oplicable	
4. Identification of	System, ASME CI		Feedwater, ASM	IE Class 2			
(a) Applicable Cons(b) Applicable Edition(c) Applicable Section	on Section XI Utilize on XI Code Case(s	•		Edition, No 2000	_ Addend _ Addend		Code Case
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)
Hanger 2-03A-1- O-1439A-R61 (1)	DPC	None	None	None	1974	Corrected	NO
	89						
7. Description of	1		1		1	<u> </u>	1
Repair weld quali standards.		pection the qualit	y of one of the w	elds was determin	ed not to	be up to curre	nt
8. Test Conducted Hydrost			Operating Pressure Test Temp	Exempt [Other -		

As required by the provisions of the ASME Code Section XI Work Order Sheet 2 of 2 Remarks (Applicable Manufacturer's Data Reports to be attached) No material installed except weld metal Filler Material ER705-2, UTC # 1052667 Filler Material ER7018, UTC # 1059149 8 0 0 0 0 0 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. Not Applicable Type Code Symbol Stamp Expiration Date Not Applicable Certificate of Authorization Number Not Applicable Senior Engineer Date 3/1/2006 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION t, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of WORTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 4.5-04 to 4.5-06, 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. Commissions VIIIIIIIII

Form NIS-2 Owner's Report for Repair/Replacement Activity

S.q

PIP Serial No. Action Category: LER No. LER No. O-06-00476

Problem Identification

Discovered Time/Date:

10:42 01/27/2006

Occurred Time/Date:

Unit(s) Affected:

<u>Unit</u> <u>Mode</u>

%Power Unit Status Remarks

N/A

N/A

100

N/A

System(s) Affected:

N/A

Not Related to a Unit"s System.

Affected Equipment

(No Equipment Affected)

Location of Problem:

Bldg:

Column Line:

Elev:

Location Remarks:

Method Used to Discover Problem:

Brief Problem Description:

Work Packages not processed by Mechanical Services teams in a timely manner.

betail Problem Description:

98656697-01

98536821-01

98586396-01

98657709-01

98671891-01

Last Updated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 02/02/2006

This work orders 98674209-01, 98674628-01, 98641556-02, 98634132-01, 98656284-01 should be included in this PIP.

Last Updated By: TRB6214: BOWEN, THOMAS R Team: WTM5506 Group: IWS Date: 01/30/2006

It was recently discovered that a population of old work orders and their associated packages had not been turned in to QC for final review. As a result, some upgraded Section X1 components had not had their NIS-2 documentation completed as required. In many cases, packages are held when the technical work is completed so that support tasks for scaffold removal, coating, grouting, or similar tasks can complete. When that occurs and the work order in WMS is completed, the paper packages are sometimes delayed in getting back to QC/Engineering for final evaluation. In the case of this population of work orders, these packages have been significantly delayed, leading to a failure in the timely completion of NIS-2 paperwork and violation of Maintenance Directive MD 7.5.10. The work orders affected are 98536821-01298625986-09, 98555377-10, 98624861-22, 98671891-01, 98656697-01, 98657709-01, 98586399-01, 98586396-01, and 98656689-01.

The supervisor who had possession of these packages has now processed all of them and turned them in. He has been counseled on the timely completion and submission of paperwork following the completion of the work. A process will be put in place this week to ensure that all work packages are monitored on a weekly basis to ensure that none are retained after field work completes.



gn this PIP to ONS Maintenance Mechanical Services for documentation of further corrective actions.

originated By: PJC6846: CULBERTSON, PHILIP J Team: CEC0320 Group: MNT Date: 01/27/2006

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

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

Immediate Corrective Actions:

Immediate Corrective Action Documents / Work Orders:

	<u>Indiv</u>	<u>Team</u>	<u>Group</u>	<u>Date</u>
Problem Identified By:	*PJC6846 CE	C0320 MNT		01/27/2006
Problem Entered By:	PJC6846 CE	C0320 MNT		01/27/2006

End of the Document for PIP No:

O-6-476

The status of this PIP is:

Closed

The duration of this PIP was:

39 days

			2.50	-0-1066A-12CPM	-	
As require	ed by the provisions of the ASME Code S	Section XI		Work Order Numbe 01621909 - 17	Sheet 3 Page 1 of 1	!
1. Owner	Duke Power Company	2. Plant	Oconee Nuclear Statio	on	Unit 2	
	526 South Church Street		7800 Rochestor Hwy		n.	'
	Charlotte, NC 28201-1006		Seneca, SC 28672		Date 5/21/2007	
3. Work Pe	rformed By			Type Code Symbol Stan	np Not Applicable	
	Duke Power Company			Authorization Number		l
	526 South Church Street			Addion22aon Number	Not Applicable	
	Charlotte, NC 28201-1006			Expiration Date	Not Applicable	
4. Identific	ation of Systems, ASME Class	Reactor	Coolant , ASME Clas	ss 1		
	ble Construction Cod <u>USAS B31.7</u> 1967	· _	ddenda <u>No</u> Code Case			

6. Identification of Coimponents

(c) Applicable Section XI Codes Cases(s)

None

Name of Component	Manufactur:	Manufacture Serial Number	National Board No	Other identification	Year Built	Corrected, Removed or Installed	ASME Code Stamped (Yes/No)
(1) Size 5 rear bracket assembly w/ ears removed.	Grinnell	N/A	UNK	N/A	UNK .	Removed	No
2) 3" x 3" x 1'-0" plate.	N/A	N/A	UNK	N/A	UNK	Removed	No
(3) 1 1/2" x 11" x 11" plate.	N/A	N/A · · '	UNK	N/A	UNK	Removed	No
(4) 3" x 7 1/2" x 1'-2 5/8" plate.	N/A	N/A	UNK	N/A	UNK	Removed	No
(5) Size 5 rear bracket assembly.	Grinnell	N/A	UNK	N/A	UNK	Removed	No
(6) Glastic isolation plate.	N/A	N/A	UNK	N/A	UNK	Removed	No
(7) Size 5, Fig. 201 ext. piece	Anvil	n	UNK	UTC 1845586	UNK	Installed	No
1 1/2" x 11" x 11" plate (item #20)	N/A	N/A	UNK	UTC 1823969	UNK	Installed	No
3" x 3" x 1'-0" plate (item #11)	N/A	N/A	UNK	UTC 1067870	UNK	Installed	No
3" x 7 1/2" x 1'-2 5/8" plate (item # 1)	N/A	N/A	UNK	UTC 1846011	UNK	Installed	No `

551 DEC

Pressure

PSI

	ed by the provisions of the A	SIME Code Section			Work Order No.	ımbe 909 - 17	Sheet	Page 2 of 1
. Owner	Duke Power Company		2. Plant Ocon	ee Nuclear Stat	tion		Unit 2	
	526 South Church Street		7800	Rochestor Hwy	1		<u> </u>	
	Charlotte, NC 28201-1006		Sene	ca, SC 28672			Date	5/21/2007
. Work Pe	rformed By				Туре С	ode Symbol	Stamp Not Appl	icable
	Duke Power Company							100010
	526 South Church Street				Autho	rization Nun	Not Appl	icable
	Charlotte, NC 28201-1006				Expir	ition Date	Not Appl	icable
. Identifica	ation of Systems, ASME Class		Reactor Coolan	t , ASME Cla	ass 1		 :	
	ble Edition Section XI Utilized For R/F		tion, 2000 Addenda					
c) Applica	ble Section XI Codes Cases(s)	Activity 1998: Edi None				· 	· · · · ·	<u> </u>
c) Applical	ble Section XI Codes Cases(s)	-	Manufacture Serial Number	National Board No	Other identification	Year Built	Corrected, Removed or Installed	ASME Code Stamped (Yes/No)
c) Applicat	ble Section XI Codes Cases(s)	None	Manufacture				Removed or	Stamped
c) Applical Identificati	ble Section XI Codes Cases(s) ion of Coimponents Name of Component	Manufactur:	Manufacture Serial Number	Board No	identification UTC	Built	Removed or Installed	Stamped (Yes/No)
c) Applical Identificati I Glastic is	ion of Coimponents Name of Component solation plate (item #18)	Manufactur:	Manufacture Serial Number N/A	Board No UNK	UTC 1090272	Built UNK	Removed or Installed	Stamped (Yes/No) No

Deg. F

Test Temperature

As required by the provisions of the ASME Code Section XI		Work Order Numbe 01621909 - 17	Sheet	3 3 Page 1 of 1
7. Remarks (Applicable Manufactuerr's Data Reports to be attached)				
(1) New item installed in lieu of existing.				
(2) New item installed in lieu of existing.				
(3) New item installed in lieu of existing.				
(4) New item installed in lieu of existing. A single 6" bar piece instead of 2	2- 3" pieces was in	stalled.		
(5) New item installed in lieu of existing.		·		
(6) New item installed in lieu of existing.		······································		
(7) Installed new extension piece				
CERTIFICATION	OF COMPLIA	ANCE		
I certify that the statements made in the report are correct and that ASME Code, Section XI		•		
Type Code Symbol Stamp	Not Applicable			_
Certificate of Autherization Number Not Applicable	<u> </u>	ration Date Not Ap	plicable	-
Signed Support	Date	5/21/07		_
CERTIFICATION OF IN	NSERVICE IN	SPECTION		
of <u>Hartford, Connecticut</u>	and employed by have inspecte to 7-/4 xaminations and ta	HSB CT ed the components describe o , and state ken corrective measures		
By signing this certificate neither the inspector nor his employer m concerning the examinations and corrective measures described in inspector nor his employer shall be liable in any manner for any persany kind rising from or connected with this inspection.	this Owner's Repo	rt. Furthermore, neither the		
Inspector's Signature	YYYNIAB (National Board, State, F	Province, and Endorsements	_	
Date 7/16/07				

Form NIS-2 Owner's Report for Repair/Replacement Activities

| Sin 2-50-0-10-CA-RCPM-3AI-557

ed by the provisions of the ASME Co	ode Section XI	,	Work Order Numbe 01621909 - 18	Sheet 3 Page 1 of 7
Duke Power Company	2. Plant	Oconee Nuclear Statio	on .	Unit 2
526 South Church Street		7800 Rochestor Hwy		Date
Charlotte, NC 28201-1006		Seneca, SC 28672		5/21/2007
rformed By			Type Code Symbol Stam	Not Applicable
Duke Power Company			Authorization Number	
526 South Church Street			Addionzadon Number	Not Applicable
Charlotte, NC 28201-1006			Expiration Date	Not Applicable
ation of Systems, ASME Class	Reactor (Coolant , ASME Clas	ss 1	
ble Construction Cod USAS B31.7	1967: Edition, <u>No</u> Add	denda <u>No</u> Code Case		
ble Edition Section XI Utilized For R/R Activity	1998: Edition, 2000 Add	lenda		
	Duke Power Company 526 South Church Street Charlotte, NC 28201-1006 formed By Duke Power Company 526 South Church Street Charlotte, NC 28201-1006 ation of Systems, ASME Class	526 South Church Street Charlotte, NC 28201-1006 Informed By Duke Power Company 526 South Church Street Charlotte, NC 28201-1006 Interest Charlotte, NC 2	Duke Power Company 526 South Church Street Charlotte, NC 28201-1006 Duke Power Company 526 South Church Street Duke Power Company 526 South Church Street Charlotte, NC 28201-1006 Askion of Systems, ASME Class Reactor Coolant ASME Class Reactor Coolant ASME Class Dele Construction Cod USAS B31.7 1967: Edition, No Addenda No Code Case Dele Edition Section XI Utilized For R/R Activity 1998: Edition, 2000 Addenda	Duke Power Company 526 South Church Street Charlotte, NC 28201-1006 Duke Power Company Duke Power Company 526 South Church Street Charlotte, NC 28201-1006 Type Code Symbol Stamp Authorization Number Expiration Date Reactor Coolant , ASME Class 1

6. Identification of Coimponents

Name of Component	Manufactur:	Manufacture Serial Number	National Board No	Other identification	Year Built	Corrected, Removed or Installed	ASME Code Stamped (Yes/No)
(1) Insulating tube for 1" Dia. Bolt	N/A	N/A	UNK	N/A	UNK	Removed	No
(2) 1" Dia. Bolts	N/A	N/A	UNK	N/A	UNK	Removed	No
(3) 1" Dia. Nuts	N/A	N/A	UNK	N/A	UNK	Removed	No
(4) 6" Dia. Sch 160 pipe	N/A	N/A	UNK	N/A	UNK	Removed	No
(5) 1 1/2" plate	Grinnell	N/A	UNK	N/A	UNK	Removed	No
(6) Size 5 rear bracket assemblies (2)	N/A	N/A	UNK	N/A	UNK	Removed	No
(7) Glastic isolation plate	N/A	N/A	UNK	N/A	UNK	Removed	No
1 1/2" plate	N/A	N/A	UNK	UTC 1823969	UNK	Installed	No
1" Dia. Nuts	N/A	N/A	UNK	UTC 1079050	UNK	Installed	No
" Dia. threaded rod	N/A	N/A	UNK	UTC 1846535	UNK	Installed	No

As required by the	provisions of the ASI	VIE Code Section	XI			Order Num 016219	nbe 109 - 18	Sheet	3 Page 2 of 2
1. Owner Duke P	ower Company		2. Plant Oc	conee Nuclear Stati	ion			Unit 2	
526 Soi	uth Church Street		78	00 Rochestor Hwy					
Charlot	te, NC 28201-1006		Se	Seneca SC 28672					5/21/2007
3. Work Performed By						Type Co	de Symbol S	Stamp Not App	licable
	ower Company uth Church Street					Authori	zation Numb	ber Not App	licable
	te, NC 28201-1006					Expirati	ion Date	Not App	
4. Identification of \$ys	stems, ASME Class		Reactor Coo	olant , ASME Cla	ass 1				
		1967: Editi Activity 1998: Editi None	· -	_		·			
Name of	Component	Manufactur:	Manufacture Serial Numbe		Othe identific		Year Built	Corrected, Removed or Installed	ASME Code Stamped (Yes/No)
3/4" plate		N/A	N/A	UNK	UTC 109117	75´	UNK	Installed	No
5" Dia. Sch 160 p	pipe	N/A	N/A	UNK	UTC 087729	94 🗸	UNK	Installed	No
Glastic isolation p	plate	N/A	N/A	UNK	UTC 109027	72	UNK	Installed	No
Inculating tube to	- 4ll Dis Doll	L		UNK	Αν.Α		UNK	Installed	No.
	ed to be	L75+e	SON N		Port	_ 6	·cc+.	じょう	R. CLILES
Size 5 rear brack	et assembly	Anvil	N/A	UNK	UTC 182411	12 /	UNK	Installed	No
Size 5 rear brack	et assembly	Anvil	N/A	UNK	UTC 183395	55	UNK	Installed	No
Size 5, Fig. 201 e	extension piece	Anvil	N/A	UNK	UTC 184558	86 🗸	UNK	Installed	No
7. Description of Work S/R was rede	esigned per OE20014	10.		<u>'</u>	<u> </u>			<u> </u>	
8. Test Conducted Hydrosta	atic	natic No	ominal Operating	g Pressure	Excempt	t E	✓ .Othe	er <u>Visual</u>	

a required by the provisions of the ACME Code Continue VI	95
required by the provisions of the ASME Code Section XI	Work Order Numbe Sheet 3 3 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Remarks (Applicable Manufactuerr's Data Reports to be attached)	
New item installed in lieu of existing.	·
) New item installed in lieu of existing.	
) New item installed in lieu of existing.	
4) New item installed in lieu of existing.	
5) New item installed in lieu of existing.	
6) New item installed in lieu of existing.	
7) New item installed in lieu of existing.	
CERTIFICATION	N OF COMPLIANCE
I certify that the statements made in the report are correct and the ASME Code, Section XI	nat this conforms to the requirements of the
Type Code Symbol Stamp	Not Applicable
Certificate of Autherization Number Not Applicable	Expiration Date Not Applicable
Signed Owner or Owner's Designee, Title	Date
CERTIFICATION OF I	INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the Nati	tional Board of Boiler and Pressure Vessel
	and employed by HSB CT
Inspectors and State or province of North Carolin A	and employed by
of <u>Hartford, Connecticut</u>	have inspected the components described
of Hartford, Connecticut in the Owner's Report during the period /-3-07	to, and state that
of Hartford, Connecticut	to, and state that examinations and taken corrective measures
of Hartford, Connecticut in the Owner's Report during the period to the best of my knowledge and belief, the Owner has performed e	have inspected the components described to
of Hartford, Connecticut in the Owner's Report during the period to the best of my knowledge and belief, the Owner has performed edescribed in this Owner's Report in accordance with the requirement By signing this certificate neither the inspector nor his employer in concerning the examinations and corrective measures described in inspector nor his employer shall be liable in any manner for any per any kind rising from or connected with this inspection.	have inspected the components described to
of Hartford, Connecticut in the Owner's Report during the period to the best of my knowledge and belief, the Owner has performed edescribed in this Owner's Report in accordance with the requirement By signing this certificate neither the inspector nor his employer in concerning the examinations and corrective measures described in inspector nor his employer shall be liable in any manner for any per any kind rising from or connected with this inspection.	have inspected the components described to

Form NIS-2 Owner's Report for Repair/Replacement Activities 5/22-50-0-1066A-RCPM-2A1-353 As required by the provisions of the ASME Code Section XI Work Order Numbe 01621909 - 19 Page 1 of /2 2. Plant Unit 1. Owner **Duke Power Company** Oconee Nuclear Station 526 South Church Street 7800 Rochestor Hwy Date 5/21/2007 Charlotte, NC 28201-1006 Seneca, SC 28672

4. Identification of Systems, ASME Class

Reactor Coolant, ASME Class 1

(a) Applicable Construction Cod USAS B31.7

1967:

Addenda <u>No</u>

Code Case

Type Code Symbol Stamp

Authorization Number

Expiration Date

Not Applicable

Not Applicable

Not Applicable

(b) Applicable Edition Section XI Utilized For R/R Activity

1998:

Edition, 2000 Addenda

(c) Applicable Section XI Codes Cases(s)

Duke Power Company

526 South Church Street

Charlotte, NC 28201-1006

6. Identification of Coimponents

3. Work Performed By

Name of Component	Manufactur:	Manufacture Serial Number	National Board No	Other identification	Year Built	Corrected, Removed or Installed	ASME Code Stamped (Yes/No)
(1) Glastic isolation plate.	N/A	N/A	UNK	N/A	UNK	Removed	No
(2) Size 5 rear bracket assemblies (2).	Grinnell	N/A	UNK	N/A	UNK	Removed	No
(3) Size 5 rear bracket assembly w/ ears removed.	N/A	N/A	UNK	N/A	UNK	Removed	No
(4) #3 Fig. 211 Sway Strut Assembly.	N/A	N/A	UNK	N/A	UNK	Removed	No
(5) 6" Dia. Sch 160 pipe.	N/A	N/A	UNK	N/A	UNK	Removed	No
1 1/2" plate.	N/A	N/A	UNK	UTC 1823969	UNK	Installed	No
8" Dia. Sch 160 pipe.	N/A	N/A	UNK	UTC 1845716	UNK	Installed	No
Glastic isolation plate.	N/A	N/A	UNK	UTC 1090272	UNK	Installed	No
Size 5 rear bracket assembly.	Anvil	N/A	UNK	UTC 1847075	UNK	Installed	No
Size 5 rear bracket assembly.	Anvil	N/A	UNK	UTC 1831825	UNK	Installed	No
					I		

	ed by the provisions of the AS	ME Code Section	Al		Work Order Nu 01621	mbe 909 - 19	Sheet	Page 2 of £
. Owner	Duke Power Company		2. Plant Ocone	e Nuclear Stat	ion		Unit 2	
	526 South Church Street		7800 F	Rochestor Hwy	•			
	Charlotte, NC 28201-1006		Senec	a, SC 28672			Date	5/21/2007
Work Per	formed By				Туре С	ode Symbol	Stamp Not Appl	icable
	Duke Power Company				-			
	526 South Church Street				Author	ization Nun	nber Not Appl	icable
	Charlotte, NC 28201-1006				Expira	tion Date	Not Appl	icable
) Applicab) Applicab dentification	ble Construction Cod <u>USAS B31.7</u> ble Edition Section XI Utilized For R/R ble Section XI Codes Cases(s) on of Coimponents Name of Component	1967: Editi Activity 1998: Editi None Manufactur:		National Board No	Other identification	Year Built	Corrected, Removed or	ASME Code Stamped
							Installed	(Yes/No)
ize 5, Fi	ig. 201 extension piece.	Anvil	N/A	UNK	UTC 1845586	UNK	Installed	No
	ig. 201 extension piece.	Anvil	N/A	UNK		UNK	Installed	No
Descriptio			N/A	UNK		UNK	Installed	No .
Descriptio	on of Work was redesigned per OE2001		N/A	UNK	1845586	UNK Oth	Installed	No .

s required by the provisions of the ASME Code Sec	tion XI	Work Order Numbe 01621909 - 19	Sheet	3 3 Page Z of Z
7. Remarks (Applicable Manufactuerr's Data Reports to be attach	ned)			
(1) New item installed in lieu of existing.				
(2) New item installed in lieu of existing.				
(3) New item installed in lieu of existing.		· · · · · · · · · · · · · · · · · · ·	Jacobariana ir Tr	
(4) Item is no longer required due to redesign.	AM			
(5) Item is no longer required due to redesign.		1 T T T T T T T T T T T T T T T T T T T		
I certify that the statements made in the repor	RTIFICATION OF COMPLIA	•		
ASME Code, Section XI Type Code Symbol Stamp	Not Applicable			
Certificate of Autherization Number		iration Date Not Ap	plicable	
Signed Signed Owner or Owner's	Eng. Date s Designee, Title			
I, the undersigned, holding a valid commission Inspectors and State or province of Moern of Hartford, Connecticu	and employed by have inspected by have inspected to have inspected	er and Pressure Vessel HSB CT ed the components describe o 7 aken corrective measures ode, Section XI. expressed or implied, ort. Furthermore, neither the	e that	
Commision Commis	DC1411 NIASC	Province, and Endorsements	.	
Date 7/167				

Pressure ___

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1723280 1 of 2 . Owner 2. Plant ONS - 2 **Duke Power Company** Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 5/24/2007 Type Code Symbol Stamp 3. Work Performed by Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class RC, ASME Class 1 5. (a) Applicable Construction Code: USAS B31.7 19 Edition, No Addenda, No Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 Edition, 2000 Addenda. 98 (c) Applicable Section XI Code Case(s) Code Cases N-504-2 and N-638-1 6. Identification of Components ASME Name of Name of Manufacturer National Corrected, Other Year Serial Number Component Manufacturer Board No. Identification Built Removed. Code or Installed Stamped (Yes / No) -PZR-WP91-WSI None None None 2007 Corrected NO WOL 2-PZR-WP91-2-WSI None None None 2007 Corrected NO WOL 2-PZR-WP91-WSI None None None 2007 Corrected NO 3WOL 7. Description of Work OD201085 - Weld Overlay on Pressurizer Safetly Relief valve nozzles **Test Conducted** Hydrostatic Nominal Operating Pressure Exempt Pneumatic

Test Temperature

٥F

As required by the provisions of the ASIVIL Code Section Ar		
	Work Order Number	Sheet
	1723280	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		_1
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CERTIFICATE OF COMPLIA	ANCE	
I certify that the statements made in the report are correct and that		ments of the
ASME Code, Section XI.	the come	
Type Code Symbol Stamp Not A	A malipahla	
	Applicable	
Certificate of Authorization Number Not Applicable	Expiration Date No	t Applicable
Signed William W. Foster Jr Engineer Owner or Owner's Designee, Title	Date 5/24/2	2007
Owner or Owner's Designee, Title		.007
		
CERTIFICATE OF INSERVICE IN:		
I, the undersigned, holding a valid commission issued by the Nation		
Inspectors and the State or Province of North Corcoling of Hartford, Connecticut	and employed by have inspected the co	MSB CT
	· · · · · ·	, and state that
in this Owner's Report during the period		
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 employ	ver makes any warranty, e	xpressed or implied,
concerning the examinations and corrective measures described in Inspector nor his employer shall be liable in any manner for any per-		
kind arising from or connected with this inspection.	sonal injury or property dan	lage of a loss of any
1		
Commissions No	National Board, State, Province	
		
Inspector's Signature	National Board, State, Province	, and Endorsements

	•			Work Order Num	ber	Sheet	
				1723	281	. 1	of 2
1. Owner		2. Pl	ant	, ,== .		Unit	
Duke Pow	ver Company		Oconee Nu	clear Station		O	NS - 2
	Church Street		7800 Roche	ester Hwy		Date	
Charlotte,	NC 28201-1006		Seneca, SC	29672			/2007
3. Work Performed	d by			Type Code Symi		plicable	
	wer Company n Church Street			Authorization No	ımber		
	, NC 28201-1006	1		Expiration Date	NOI A	oplicable	
					Not Ap	plicable	
4. Identification of	System, ASME CI		C, ASME Class 1				
5.(a) Applicable Cons(b) Applicable Edition(c) Applicable Section	on Section XI Utilize ion XI Code Case(s	-		Edition, No Edition, 2000 3-1	_ Addend _ Addend		Code Case
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-RC-0266-23V	WSI	None	None	None	2007	Corrected	NO
					<u> </u>		
,				·			
Ŭ,							
							
7. Description of	Work	<u> </u>			<u> </u>		
		ressurizer spray n	ozzle butt welds	between the Class	s 1 nozzle	e, the safe end,	and the
8. Test Conducto			Operating Pressure Test Temp		Other °F		

	Work Order Number	Sheet
	1723281	2 of 2
. Remarks (Applicable Manufacturer's Data Reports to be attached)		
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CERTIFICATE OF CO	OMPLIANCE	
I certify that the statements made in the report are correct ar ASME Code, Section XI.		nents of the
Type Code Symbol Stamp	Not Applicable	
Certificate of Authorization Number Not Applicable	Expiration Date Not	Applicable
Signed William W Foster Jr Engin	neer Date5/23/20	007
Owner or Owner's Designee, Title	,	
CERTIFICATE OF INSERV		
I, the undersigned, holding a valid commission issued by the Inspectors and the State or Province of WARTH CAROLINE		sure Vessel HSB CT
of Hartford, Connecticut	have inspected the con	
in this Owner's Report during the period /-30-07	to 7-16-07	, and state tha
to the best of my knowledge and belief, the Owner has pe		
described in this Owner's Report in accordance with the require		
By signing this certificate neither the Inspector nor his concerning the examinations and corrective measures describ		
Inspector nor his employer shall be liable in any manner for a		
kind arising from or connected with this inspection.	ty personal injury of property dame	aye or a loss of al
The second of th		
	NCHHYINIAGC	
Inspector's Signature	National Board, State, Province,	and Endorsements
Date 7-16-07		

						Work Order Num	ber	Sheet	
						17232	282	1 (of 2
1. Owner			2. Pla	ant	_			Unit	
	ver Company Church Street		I	Oconee Nuc 7800 Roche					NS - 2
	NC 28201-1006		į	Seneca, SC		•		Date 5/24	/2007
3. Work Performed					7	Type Code Symb	ool Stamp	3/24	/2007
	•					1900 0000 05		plicable	
Duke Power Company 526 South Church Street Authorization Number Not Applicable									
	, NC 28201-1006)				Expiration Date	. Not wh	рисавіе	
						Expiration Date	Not Ap	plicable	
4. Identification of	System, ASME Cla	ass	RC	C, ASME Class 1					
5. (a) Applicable Cons (b) Applicable Edition	on Section XI Utilize		ctivity	19 98	Edi	ition, No 2000	_ Addend _ Addend		Code Case
(c) Applicable Secti		Code (Cases 1	N-504-2 and N-638	<u>}-1</u>				
6. Identification of		l ==ea.		l marine at 1		~ (ـ بر	د	
Name of Component	Name of Manufacturer	Manufactu Serial Nun		National Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
RC-0326-21V	WSI	None		None		None	2007	Corrected	NO
2-RC-0326-22V	wsi	None		None		None	2007	Corrected	NO
					<u> </u>				
	·								
7. Description of	Work			<u> </u>				1	<u> </u>
OD201087 - Weld	i overlay of hot le	g and press	urizer	surge nozzles					
Test Conducte Hydrost	_			Operating Pressure Test Temp		Exempt	Other _		

As required by the provisions of the Asivic Code	; Section At			
		Work Order Numbe	r S	heet
		1723282	2	2 of 2
9. Remarks (Applicable Manufacturer's Data	Reports to be attached)			
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	CERTIFICATE OF COMPLIA	ANCE		
I certify that the statements made in			requirement	s of the
ASME Code, Section XI.			· • • • • • • • • • • • • • • • • • • •	0 0
Type Code Symbol Stamp	Not.	Applicable		
Certificate of Authorization Number			Not Apr	- L'achta
l	Not Applicable	Expiration Date	Not App	olicable
Signed Williw Jost L. Owner or Owner's Design	William W Foster Jr Engineer	Date	5/24/2007	
Owner or Owner's Design	iee, Titie			
	·			
d	ERTIFICATE OF INSERVICE IN	SPECTION		
I, the undersigned, holding a valid co				
Inspectors and the State or Province of	NORTH CAROLINA	and employed by		B CT
of Hartford, C in this Owner's Report during the period				nents described
to the best of my knowledge and bel				, and state that ective measure
described in this Owner's Report in acco				JULIVE MICAGAIC.
By signing this certificate neither to	the Inspector nor his employ	yer makes any war	ranty, expres	
concerning the examinations and corre	ective measures described in	this Owner's Repo	rt. Furtherm	ore, neither the
Inspector nor his employer shall be liab		sonal injury or prope	erty damage	or a loss of any
kind arising from or connected with this i	nspection.			
Mouth	Commissions VC	ICKLY NIABL		
Inspector's Signature		National Board, State	, Province, and I	Endorsements
Date 7-16-07			•	



	β. 		· ;	Work Order Num	nber	Sheet	
,			_	1719	288	1	of 2
1. Owner		. 2.	Plant			Unit	
Duke Pow	er Company		Oconee Nucl	lear Station		Ol	NS - 2
526 South	7800 Roches	ter Hwy		Date			
	NC 28201-1006		Seneca, SC			5/15	5/2007
3. Work Performed	•			Type Code Symi		pplicable	
526 South	ver Company n Church Street			Authorization No	_	pplicable	
Charlotte	, NC 28201-1006	i		Expiration Date	Not Ap	oplicable	
4. Identification of	System, ASME Cl		sure Injection, ASM	E Class 1			
5.(a) Applicable Cons(b) Applicable Edition(c) Applicable Section6. Identification of	on Section XI Utilize ion XI Code Case(s)			dition, No dition, 2000	_ Addend _ Addend	· ————	Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial Number		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Orifice Flanges Upstream of 2HP- 334 (1)	Duke Energy Corporation	N/A	N/A	N/A	1973	Corrected	NO
_	<u>, , , , , , , , , , , , , , , , , , , </u>						
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		l					
					·		
				·			
7. Description of Replace existing r8. Test Conducte	nuts due to missing	g or unreadable	markings				
Hydrost			l Operating Pressure Test Tempe	Exempt Z	Other _	Functional	

is required by the provisions of the fraction code section in		Work Order Number	er	Sheet
		171928	3	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be atta	ached)		<u></u>	
				······································
1 inch, SA194 Grade 2H Nuts; S/C 131798; UTC 1079050;	<u>, HT # 7240626</u>	l		······································
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CERTIFICAT	E OF COMPLIA	NOE		
I certify that the statements made in the report are confidence of ASME Code, Section XI.		•	requireme	nts of the
Type Code Symbol Stamp	Not A	Applicable		
Certificate of Authorization Number / Not Applicate	able	Expiration Date	Not A	oplicable
B 11.10 1	ior Engineer	Date	5/15/2007	
Owner or Owner's Designee, Title				
CERTIFICATE OF				
I, the undersigned, holding a valid commission issued Inspectors and the State or Province of NORTH CAR of Hartford, Connecticut in this Owner's Report during the period	XINA_	and employed by have inspecte	Н	e Vessel SB CT onents described , and state that
to the best of my knowledge and belief, the Owner described in this Owner's Report in accordance with the By signing this certificate neither the Inspector no	has performe requirements	d examinations and of the ASME Code,	Section XI.	rective measure
concerning the examinations and corrective measures Inspector nor his employer shall be liable in any manne kind arising from or connected with this inspection.				
Secret Communication Communica	nissions <u><i>WC</i></u>	National Board, State	Province, and	l Endorsements
Date 6/7/07				



As required by the pro	visions of the ASMF	Code Section	on XI		_			Total	
		,			ľ	Work Order Num		Sheet	c 2
				, , , , , , , , , , , , , , , , , , , ,	丄	01753	3158		of 2
526 South Church Street 7800				Oconee Nuc 7800 Roche Seneca, SC	ster	Hwy		Date	NS - 2 8/2007
3. Work Performed	t by		<u></u>		٦	Гуре Code Symt		pplicable	
526 South	wer Company h Church Street			·	[Authorization Nu		plicable	
	, NC 28201-1006				E	Expiration Date	Not Ap	plicable	
4. Identification of	System, ASME Cla		sure In	jection System, A	\S M	IE Class 1			
5.(a) Applicable Cons(b) Applicable Edition(c) Applicable Section6. Identification of	on Section XI Utilize ion XI Code Case(s)		ctivity		Editic Editic		_ Addend _ Addend	·	Code Case
Name of Component	Name of Manufacturer	Manufact Serial Nur		National Board No.	ld	Other entification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
(1)Valve 2HP-487	Anchor/Darling	EZ496-	1-2	1908		None	1996	Corrected	YES
									<u> </u> .
									
	,								
7. Description of	Work						<u> </u>	<u>}</u>	<u>.l</u>
OE201820, replac	ce portion of equal	lization pip	ing (2	1/2" elbows and	2 pie	eces of 1/2" p	ipe) on va	alve 2HP-487.	
6. Test Conducte				perating Pressure Test Tempo	 eratı	Exempt	Other °F		

_		Work Order Numbe	r Sheet
		1753158	2 of 2
9. Remarks (Applicable Manufacturer's Data Re	ports to be attached)		
Removed (2) pieces of 1/2" pipe, UTC unknownstalled (2) pieces of 1/2" pipe, UTC# 18482			7660, Cat ID# 80514
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Φ			
	CERTIFICATE OF COMPLIA	ANCE	
I certify that the statements made in the ASME Code, Section XI.	report are correct and that	this conforms to the	requirements of the
Type Code Symbol Stamp	Not a	Applicable	
Certificate of Authorization Number	Not Applicable	Expiration Date	Not Applicable
Signed Willi W hos L Willi Owner or Owner's Designee, T	am W Foster Jr Engineer Fitle	Date	5/25/2007
	· · · · · · · · · · · · · · · · · · ·		
CERT	TIFICATE OF INSERVICE IN	SPECTION	
I, the undersigned, holding a valid common linspectors and the State or Province of Martford, Connection in this Owner's Report during the period to the best of my knowledge and belief, described in this Owner's Report in accordant By signing this, certificate neither the concerning the examinations and corrective linspector nor his employer shall be liable in kind arising from or connected with this inspector.	the Owner has performence with the requirements. Inspector nor his employ e measures described in any manner for any per	and employed by have inspected to &-w-o7 d examinations and of the ASME Code, Seer makes any warr this Owner's Report	HSB CT d the components described , and state that taken corrective measure Section XI. ranty, expressed or implient. Furthermore, neither the
Inspector's Signature	Commissions <u>\u00e40</u>	National Board, State,	Province, and Endorsements
Date <u>6-//-07</u>			



As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1752788 1 of 2 1. Owner 2. Plant Unit Oconee Nuclear Station ONS - 7 **Duke Power Company** 526 South Church Street 7800 Rochester Hwy Date Seneca, SC 29672 Charlotte, NC 28201-1006 7/12/2007 3. Work Performed by Type Code Symbol Stamp Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Reactor Coolant System, ASME Class 1 5. (a) Applicable Construction Code: 19 69 USAS B31.7 Edition, No Addenda, No Code Case 19 **98** Edition, 2000 (b) Applicable Edition Section XI Utilized For R/R Activity Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components **National** Other Name of Name of Manufacturer Year Corrected, **ASME** Component Manufacturer Serial Number Board No. Identification Built Removed. Code or installed Stamped (Yes / No) 2RC-4 (PZR WK UNK WNK Relief Block DMV-1136 Westinghouse Corrected YES Valve 7. Description of Work Performed seal weld of body to bonnet. No parts changed 8. Test Conducted Pneumatic Nominal Operating Pressure Exempt Other Visual Hydrostatic Test Temperature Pressure

	Work Order Number	Sheet
	1752788	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
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CERTIFICATE OF COMPLIA	NCE	
I certify that the statements made in the report are correct and that ASME Code, Section XI.	this conforms to the requireme	ents of the
Type Code Symbol Stamp Not A	Applicable	
Certificate of Authorization Number Not Applicable	Expiration Date Not A	Applicable
Signed John & Turn ENgwer	Date 7/12/07	
Owner or Owner's Designee, Title 743 7/, 1/07		
 		
CERTIFICATE OF INSERVICE INS		
I, the undersigned, holding a valid commission issued by the Nation Inspectors and the State or Province of	nal Board of Boiler and Pressu and employed by	re Vessel HSB CT
of Hartford, Connecticut	have inspected the comp	ponents described
	to 7-13-07	, and state that
to the best of my knowledge and belief, the Owner has performed described in this Owner's Report in accordance with the requirements of		
By signing this certificate neither the Inspector nor his employe	er makes any warranty, exp	ressed or implied,
concerning the examinations and corrective measures described in		
Inspector nor his employer shall be liable in any manner for any perskind arising from or connected with this inspection.	ional injury or property damas	je or a loss or any
Commissions A	coull links	
Inspector's Signature Commissions	National Board, State, Province, and	nd Endorsements
Date 7-13-07		



					Ī	Work Order Num	ber	Sheet	
						1666	017	1	of 2
1. Owner			2. Pla	ant				Unit	-
Duke Pov	ver Company			Oconee Nu	icle	ar Station		O	NS - 2
	Church Street			7800 Roch	este	er Hwy		Date	-
Charlotte,	NC 28201-1006			Seneca, SC	29	9672		7/12	/2007
3. Work Performed	d by		<u> </u>	· · · · · · · · · · · · · · · · · · ·		Type Code Symb			
							Not Ap	plicable	
	wer Company h Church Street					Authorization Nu		plicable	
	, NC 28201-1006					Expiration Date	Not Ap	рисане	*
	,110 20201 1000					Expiration Date	Not Ap	plicable	
4. Identification of	f System, ASME CI	ass					-		
		High 1	Pressur	e Injection, ASI	ME	Class 1			_
5.				·					
(a) Applicable Cons		USAS B				tion, No	_ Addeno Addeno	· · · · · · · · · · · · · · · · · · ·	Code Case
	on Section XI Utilize ion XI Code Case(s		•	19 90	Eui	tion, 2000	- Addend	ia.	
6. Identification of									
Name of	Name of	Manufac	turer l	National	ı	Other	Year	Corrected,	ASME
Component	Manufacturer	Serial Nu		Board No.		Identification	Built	Removed,	Code
_								or installed	Stamped (Yes / No
Orifice Flange					┝				
Upstream 2HP-	DEC	None	,	None		None	UNK	Corrected	NO
334					_				
			ļ						
					 				
<u> </u>									

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7. Description of	Work	<u> </u>			L		I		<u> </u>
	instrument taps o	n the orific	e flang	es. These plugs	s ha	ve a history of l	eak and	thev are not us	ed.
p.wg			8	, F9 -		-		,	
8. Test Conducte	ed								
Hydros		tic 🕅 No	ominal C	operating Pressure	2	Exempt	Other		
<u> </u>	Pressure			Test Tem					
									



	Work Order Numbe	er Sheet
	1666017	7 2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)	
		. ,
No new parts were used. Weld filler metal only item added.		
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CERTIFICATE OF	COMPLIANCE	
I certify that the statements made in the report are correct ASME Code, Section XI.	t and that this conforms to the	requirements of the
Type Code Symbol Stamp	Not Applicable	
Certificate of Authorization Number / Not Applicable		Not Applicable
Signed B at My Com Senior E		7/12/2007
Owner or Owner's Designee, Title	ngnice Date	111212001
<u> </u>		
CERTIFICATE OF INSE	RVICE INSPECTION	
I, the undersigned, holding a valid commission issued by Inspectors and the State or Province of Love The Care Color		and Pressure Vessel HSB CT
of Hartford, Connecticut		d the components described
in this Owner's Report during the period 11-9-02	to 7-13-07	, and state that
to the best of my knowledge and belief, the Owner has		
described in this Owner's Report in accordance with the requi- By signing this' certificate neither the Inspector nor his		
concerning the examinations and corrective measures des	cribed in this Owner's Repo	rt. Furthermore, neither the
Inspector nor his employer shall be liable in any manner for kind arising from or connected with this inspection.	any personal injury or prope	erty damage or a loss of any
	and alreaded aspect	_
Inspector's Signature	ons <u>VC/YYY NIANG</u> National Board, State,	, Province, and Endorsements
Date 7-/3-07		



is required by the pro	ovisions of the Asivin	, codo occuon	711		V	Work Order Num		Sheet	
						1753	203		of 2
1. Owner Duke Pow 526 South Charlotte,		2. Pla	Oconee Nuclear Station					ONS - 2 Date 7/12/2007	
3. Work Performed	d by				٦	Type Code Symb		pplicable	
526 South	wer Company th Church Street	_				Authorization Nu		pplicable	
<u></u>	e, NC 28201-1006					Expiration Date	Not Ar	pplicable	
	f System, ASME Cla		ressur	e Injection, ASN	ME C	Class 1			
	ion Section XI Utilize tion XI Code Case(s)				Editio		_ Addend		Code Case
Name of Component	Name of Manufacturer	Manufactu Serial Num		National Board No.	ld	Other entification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No
2 HP 486	Anchor Darling	UNK		UNK	I	OMV-1048	UNK	Corrected	YES
<u> </u>			_		+				
			\rightarrow		+				
									
							·		
					<u> </u>			,	
	,								
7. Description of Change weld conf	Work of Work with the stab	olish a 2:1 tar	per.						
8. Test Conducte Hydrost				Operating Pressure Test Tem		Exempt [Other _		

	Work Order Number	Sheet
	1753203	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
Aw 11791 34.41		
Weld Filler Metal		
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CERTIFICATE OF COMPLIA	NCE	
I certify that the statements made in the report are correct and that t ASME Code, Section XI.	his conforms to the requireme	ents of the
Type Code Symbol Stamp Not A	pplicable	
Certificate of Authorization Number Not Applicable	Expiration DateNot A	Applicable
	Date 7/12/200	07
Owner or Owner's Designee, Title		
/	27071011	
CERTIFICATE OF INSERVICE INS I, the undersigned, holding a valid commission issued by the Nation		iro Voccal
		HSB CT
of Hartford, Connecticut	have inspected the com	ponents described
	0 7-15-07	, and state that
to the best of my knowledge and belief, the Owner has performed described in this Owner's Report in accordance with the requirements of		
By signing this certificate neither the Inspector nor his employed		
concerning the examinations and corrective measures described in	this Owner's Report. Furthe	ermore, neither the
Inspector nor his employer shall be liable in any manner for any personal kind arising from or connected with this inspection.	onal injury or property dama	ge or a loss of any
Commissions No.	UKK ALIBRE	
Inspector's Signature	National Board, State, Province, a	nd Endorsements
Date		



Pressure

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1 of 2 1753204 Unit 2. Plant 1. Owner ONS - 2 **Duke Power Company** Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Seneca, SC 29672 Charlotte, NC 28201-1006 7/12/2007 3. Work Performed by Type Code Symbol Stamp Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class High Pressure Injection, ASME Class 1 5. 19 No Code Case (a) Applicable Construction Code: **USAS B31.7** Edition, Addenda, No (b) Applicable Edition Section XI Utilized For R/R Activity 19 Edition, 2000 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Corrected. **ASME** Name of Name of Manufacturer National Other Year Component Manufacturer **Serial Number Board No.** Identification Built Removed, Code or Installed Stamped (Yes / No) 2HP-488 DMV-1048 UNK YES **Anchor Darling** UNK **UNK** Corrected 7. Description of Work Changed weld configuration to obtain 2:1 taper. ಕ. Test Conducted Hydrostatic Pneumatic ٥F **PSI Test Temperature**



	Work Order Number	Sheet
	1753204	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
0		
2		
8		
0		
6		
6		
0		
8	4	
9		
0		
		<u></u>
CERTIFICATE OF COM	DITANCE	
I certify that the statements made in the report are correct and		rements of the
ASME Code, Section XI.		
Type Code Symbol Stamp	lot Applicable	
Certificate of Authorization Number Not Applicable	Expiration DateN	lot Applicable
Signed Basil Wi Can Senior Engineer	er Date 7/12	2/2007
Owner or Owner's Designee, Title		
<u></u>		
CERTIFICATE OF INSERVIC	. —	
I, the undersigned, holding a valid commission issued by the N Inspectors and the State or Province of Shark Carolina	ational Board of Boiler and Pre and employed by	essure Vessel HSB CT
of Hartford, Connecticut	have inspected the c	components described
in this Owner's Report during the period to the best of my knowledge and belief, the Owner has perfo	to 7-15-07	, and state that
described in this Owner's Report in accordance with the requirement		
By signing this certificate neither the Inspector nor his em		
concerning the examinations and corrective measures described Inspector nor his employer shall be liable in any manner for any		
kind arising from or connected with this inspection.		
Commissions	<i>NC1444NIASC</i> National Board, State, Province	
Inspector's Signature	National Board, State, Province	ce, and Endorsements
Date		



	visions of the Asivi				W	ork Order Num	ber	Sheet	
						1753	205	1	of 2
1. Owner			2. Pla	ant				Unit	
Duke Pov	ver Company			Oconee Nu	ıclear	Station		O	NS - 2
	Church Street			7800 Roch		•		Date	<u>.</u>
Charlotte,	, NC 28201-1006			Seneca, SC	2967	72		7/12	2/2007
3. Work Performed	d by			•	Ty	/pe Code Syml		. 1' . 1 1 .	
Duke Pov	wer Company					uthorization Nu		plicable	
	h Church Street				"	uulonzalion Ni		plicable	
Charlotte	, NC 28201-1006				E	piration Date			
		<u> </u>					Not Ap	oplicable	
4. Identification of	f System, ASME CI		Pressui	e Injection, ASI	ME CI	ass 1			
5.	atruction Code	HOACD	21.7	10 60	Edition	No.	Addona	No. (Codo Coso
(a) Applicable Cons (b) Applicable Edition		USAS B		$\frac{19}{19} \frac{69}{98}$	Edition Edition		_ Addeno Addeno	· 	Code Case
(c) Applicable Sect						, <u> </u>	_		
6. Identification of	Components					•			
Name of Component	Name of Manufacturer	Manufact Serial Nui		National Board No.	ide	Other ntification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2 HP 489	Anchor Darling	UNK		UNK	D.	MV-1048	UNK	Corrected	YES
			·		2				
			-						
	,								
7. Description of Change weld con		lish a 2:1 ta	aper.				·		
. Test Conducte				Operating Pressure		Exempt	Other°F		



	Work Order Number	Sheet
	1753205	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
• Wald Eller Moral		
• Weld Filler Metal		
<u> </u>		
8		
<u> </u>		
6		
6		
0		
8		
	,	
9		

CERTIFICATE OF COMP	IIANCE	
I certify that the statements made in the report are correct and the ASME Code, Section XI.		irements of the
Type Code Symbol StampNo	ot Applicable	<u> </u>
Certificate of Authorization Number Not Applicable	Expiration Date	Not Applicable
Signed Basilly, Camp, Senior Engineer	Date7/1	2/2007
Owner or Owner's Designee, Title		
CERTIFICATE OF INSERVICE	INSPECTION	<u> </u>
I, the undersigned, holding a valid commission issued by the Na Inspectors and the State or Province of Noeth Carolina of Hartford, Connecticut in this Owner's Report during the period 5-19-07 to the best of my knowledge and belief, the Owner has perford described in this Owner's Report in accordance with the requirement By signing this certificate neither the Inspector nor his employers and corrective measures described Inspector nor his employer shall be liable in any manner for any particular of the summan of th	tional Board of Boiler and P and employed by have inspected the to 7-13-0 7 med examinations and tak its of the ASME Code, Secti loyer makes any warranty in this Owner's Report.	HSB CT components described , and state that en corrective measures on XI. , expressed or implied, Furthermore, neither the
Commissions A)C1444NIABC National Board, State, Provi	ince, and Endorsements
Date <u>7-13-07</u>		

			_	Work Order Num	ber	Sheet	***************************************
				1719	290	1	of 2
1. Owner		2.	Plant	·*···		Unit	
	ver Company		Oconee Nucle	ear Station		O	NS - 2
*	Church Street		7800 Rochest				
	NC 28201-1006		Seneca, SC 2			5/1:	5/2007
3. Work Performed	-			Type Code Symi		plicable	
	ver Company n Church Street			Authorization No		plicable	
Charlotte	, NC 28201-1006	•		Expiration Date	Not Ap	oplicable	
4. Identification of	System, ASME CI		ssure Injection, ASMI	E Class 1			
5. (a) Applicable Cons (b) Applicable Editi		USAS B31. ed For R/R Activ		dition, No 2000	_ Addeno	·	Code Case
(c) Applicable Sect	•) None	· · · · · · · · · · · · · · · · · · ·				
6. Identification of Name of Component	Name of Manufacturer	Manufacture Serial Numb		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped
						ļ	(Yes / No)
orifice flange up stream of 2HP- 326 (1)	Duke Energy Corporation	N/A	N/A	N/A	1973	Corrected	NO
7. Description of	Work				<u> </u>	<u> </u>	<u> </u>
Replace existing		g or unreadab	le markings				
8. Test Conducte	ed			<u>.</u>			
Hydros			nal Operating Pressure Test Temper	Exempt D	Other _	Functional	



as required by the provisions of the riotals code section 21	Work Order Number	Sheet
	1719290	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
·		
1 inch, SA194 Grade 2H Nuts; S/C 131798; UTC 1079050; HT # 724062	6	
9		
6		
Φ		
		<u></u>
5	· · · · · · · · · · · · · · · · · · ·	
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3		
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CERTIFICATE OF COMPL	IANCE	
I certify that the statements made in the report are correct and the ASME Code, Section XI.	it this conforms to the re	equirements of the
Type Code Symbol Stamp Not	. Applicable	
Certificate of Authorization Number / Not Applicable	Expiration Date	Not Applicable
Signed Basil W. Can Senior Engineer	Date	5/15/2007
Owner or Owner's Designee, Title		
CERTIFICATE OF INSERVICE II	NSPECTION	
I, the undersigned, holding a valid commission issued by the National	onal Board of Boiler and	
Inspectors and the State or Province of NORTH CHROLINA	and employed by	HSB CT
of Hartford, Connecticut in this Owner's Report during the period	· ·	the components described and state tha ,
in this Owner's Report during the period		
described in this Owner's Report in accordance with the requirements		
By signing this certificate neither the Inspector nor his emplo	yer makes any warra	nty, expressed or implie
concerning the examinations and corrective measures described in	n this Owner's Report.	Furthermore, neither th
Inspector nor his employer shall be liable in any manner for any pekind arising from or connected with this inspection.	rsonal injury or propert	y damage or a loss of ar
South Commissions No	C1444 NIABC	
Inspector's Signature	National Board, State, P	rovince, and Endorsements
Date 6-/3-07		



					l	Work Order Num	ber	;	Sheet	
						016	80260-0	7	1 of 2	
1. Owner			2. Pla	ant				 -	Unit	
Duke Pow	er Company	İ		Oconee Nu	cle	ar Station			ON	NS - 2
1	Church Street	1		7800 Roche				H	Date	·
	NC 28201-1006			Seneca, SC		•				22/07
3. Work Performed	d by					Type Code Symb		plicable	e	
	ver Company 1 Church Street			• , .		Authorization Nu	ımber	plicable		
	, NC 28201-1006			• •		Expiration Date		plicable		
4. Identification of	System. ASMF CI	ass				L	ног Ар	יאיוהפסו		
	,, ,		r Cool	lant System, ASI	ME	Class 1				
5.(a) Applicable Cons(b) Applicable Edition(c) Applicable Section	on Section XI Utilize					ition, No ition, 2000	_ Addend _ Addend		No (Code Case
6. Identification of	Components		_		- -	_ _		_		
Name of Component	Name of Manufacturer	Manufacto Serial Nun		National Board No.		Other Identification	Year Built	Rem	ected, loved, stalled	ASME Code Stamped (Yes / No)
2RC-66	Consolidated	BY-936	18	none		none	UNK	Ren	noved	YES
1 2RC-66	Consolidated	BS-0803	32	none		none	UNK	Inst	talled	YES
					T					
					T					
7. Description of	L ' Work	<u> </u>		1			L	<u> </u>	····	1
Valve, serial num BS-08032 from st	ber BY-93618, wa	as removed	for A	SME Code testir	ng.	Replaced with	new spar	re valve	e, serial	number
Test Conducte Hydrost				Operating Pressure Test Temp			Other °F	RCS V	'isual	



.		Work Order Number	Sheet
, .		01680260-0	07 2 of 2
9. Remarks (Applicable Manufacturer's Data F	Reports to be attached)		
Replaced existing valve with a new spare from the spare from			
	Offi Stock.		
2			
8		· · · · · · · · · · · · · · · · · · ·	
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6			
6	· .		
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8		,	
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)			
	CERTIFICATE OF COMPLIA	ANCE	
I certify that the statements made in the ASME Code, Section XI.			requirements of the
Type Code Symbol Stamp	Not .	Applicable	
Certificate of Authorization Number	Not Applicable	Expiration Date	Not Applicable
Signed Jun V. Kiso	, Engineer		
Owner or Owner's Designee	e, Title		
CE	ERTIFICATE OF INSERVICE IN	SPECTION	
I, the undersigned, holding a valid com	nmission issued by the Natio	nal Board of Boiler ar	
Inspectors and the State or Province of	NORTH CAROLINA	and employed by	HSB CT
of Hartford, Con		· · ·	the components described
in this Owner's Report during the period		to 7-3-07	, and state that
to the best of my knowledge and belief described in this Owner's Report in accord			
By signing this certificate neither the	ne Inspector nor his employ	yer makes any warra	anty, expressed or implied
concerning the examinations and correct	ctive measures described in	this Owner's Report	t. Furthermore, neither the
Inspector nor his employer shall be liable kind arising from or connected with this ins	e in any manner for any pers		
ess. H	•	- JUNI	
Inspector's Signature	Commissions ~	National Board, State,	Province, and Endorsements
Date <u> </u>			

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1 of 2 98763544-01 2. Plant Unit 1. Owner ONS - 0 Oconee Nuclear Station **Duke Power Company** 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 5/24/2006 Type Code Symbol Stamp 3. Work Performed by Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class High Pressure Injection system, Letdown Cooler, ASME Class 1 5. ASME Section III 19 80 S 80 (a) Applicable Construction Code: Edition, Addenda, No Code Case 2000 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Manufacturer **National** Other Corrected. **ASME** Name of Name of Year Component Manufacturer Serial Number Board No. Identification Built Removed, Code or Installed Stamped (Yes / No) Graham Spare Letdown Corrected Manufacturing 44773-1 12767 None 1983 YES Cooler **1** Corp. 7. Description of Work One tube was removed from service by plugging with mechanical tube plugs, Pop-A-Plugs. 8. Test Conducted Hydrostatic Pneumatic **Nominal Operating Pressure** Exempt Other No test post-plugging **Test Temperature** ٥F Pressure

)	Work Order Number	Sheet
	98763544-01	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
● Form N-1 attached for cooler S/N 44773-1. Pop-A-Plugs, stock code 35362 remove the degraded tube from service.	23, UTC 0001060674, quantity o	f 2, were used to
0		
€		
0		
6		
6		
0		
③		,
9		
Φ		
CERTIFICATE OF COMPLIA	NCE	
I certify that the statements made in the report are correct and that t ASME Code, Section XI.	this conforms to the requirement	ents of the
Type Code Symbol Stamp Not A	pplicable	
Certificate of Authorization Number Not Applicable	Expiration Date Not A	Applicable
Signed Asmus H Satton Engineer Owner or Owner's Designee, Title	Date5/24/00	5
Same as a same a same a sa		
CERTIFICATE OF INSERVICE INS	PECTION	
		ıra Vassal
of Hartford, Connecticut	have inspected the come have inspected the come have inspected the come have inspected the come have inspected to the confidence of the ASME Code, Section XI are makes any warranty, expethis Owner's Report. Further	ponents described , and state that porrective measures bressed or implied, ermore, neither the
	National Board, State, Province, a	nd Endorsements
Date 7-14-06		

		E Code Section XI		Work Order Num	ber	Sheet	
)				01737	857	1 0	of 2
1. Owner		2. Pla	ant			Unit	
Duke Pov	ver Company		Oconee Nu	clear Station		O	NS - 2
	Church Street	ŀ	7800 Roche	•		Date	
	, NC 28201-1006		Seneca, SC			4/30)/2007
3. Work Performed	d by			Type Code Symb		oplicable	
	wer Company h Church Street			Authorization Nu		plicable	
	, NC 28201-1006			Expiration Date			
4. Identification of	f System, ASME CI	ass		<u> </u>	Not Ap	oplicable	
			C, ASME Class 1				
5.(a) Applicable Cons(b) Applicable Editi(c) Applicable Sect	on Section XI Utilize ion XI Code Case(s	•		Edition, No 2000	_ Addeno	· ———	Code Case
6. Identification of 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)
l.) 2-50-RCPM- H6604	DPCo	None	None	None	UNK	Removed	NO
2.) 2-50-RCPM- H6604	DPCo	None	None	None	2007	Corrected	NO
							·
***************************************			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		t l					<u> </u>
7. Description of		· · · · · · · · · · · · · · · · · · ·		,			
		04 - Temporarily	remove and rein	stall with additiona	al shim to	o rocker washe	rs.
	-50-RCPM -H660		remove and rein		ol shim to	o rocker washe	rs.

		Work Order Numb	er	Sheet	
		017378	57	2 of	2
9. Remarks (Applicable Manufacturer's Data Reports to be att	ached)				
S/R 2-50-RCPM-H6604:Temporarily remove					
② S/R 2-50-RCPM-H6604:Reinstall with additional shim was	shers		····		
8				<u> </u>	
•					
6	·				
6					
0					
8					
· • • • • • • • • • • • • • • • • • • •					
•					
CERTIFICAT	E OF COMPLIA	NCE			
I certify that the statements made in the report are co	orrect and that t	his conforms to the	e requireme	nts of the	
Type Code Symbol Stamp	Not A	pplicable			
Certificate of Authorization Number Not Applic				pplicable	
Signed Owner or Owner's Designee, Title	Erineur	Date	24-07		
C Owner or Owner's Designee, Title	/				
CERTIFICATE OF	INSERVICE INS	PECTION			
I, the undersigned, holding a valid commission issued Inspectors and the State or Province of North Carolof Hartford, Connecticut	CINA	and employed by have inspecte	Н	SB CT	cribed
in this Owner's Report during the period to the best of my knowledge and belief, the Owner described in this Owner's Report in accordance with the	has performed	examinations and the ASME Code	d taken cor	_ , and stater rective mea	
By signing this certificate neither the Inspector no concerning the examinations and corrective measures Inspector nor his employer shall be liable in any manner kind arising from or connected with this inspection.	or his employed described in t	er makes any war this Owner's Repo	rranty, expre ort. Further	more, neith	er the
Inspector's Signature Comm	nissions <u>XC</u>	National Board, State	e, Province, and	d Endorsement	ts
Date <u>5-25-07</u>					

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1 of 2 1752010 2. Plant Unit 1. Owner **Duke Power Company** ONS - 2 Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 5/23/2007 3. Work Performed by Type Code Symbol Stamp Not Applicable **Duke Power Company** Authorization Number 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Reactor Coolant (RC), ASME Class 1 5. (a) Applicable Construction Code: **USAS B31.7** 19 Edition, Addenda, No Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 98 Edition, 2000 19 Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Name of Name of Manufacturer National Other Year Corrected, ASME Manufacturer Component Serial Number Board No. Identification Built Removed, Code or Installed Stamped (Yes / No) 1.) 2RC-77 Anchor/Darling E069T-1-2 UTC# 1021733 2432 2000 Installed YES 2.) 2RC-77 Velan Unk Unk Unk Unk NO Removed 7. Description of Work Removed 3/4" valve 2RC-77. Installed 1/2" valve 2RC-77 8. Test Conducted Nominal Operating Pressure | Exempt **∐** Hydrostatic Pressure PSI **Test Temperature**

As required by the provisions of the Asiate Code of	Section Ai	Work Order Number	er	Sheet	
		175201	0	2 of	2
9. Remarks (Applicable Manufacturer's Data	Reports to be attached)				
1 Installed 1/2" valve - serial #E069T-1-2					
2 Removed 3/4" Velan valve.					
6					•
0				1.000	
6					
6			,		
0					,
<u> </u>	·····				
)					
l certify that the statements made in the ASME Code, Section XI.	certificate of compliance report are correct and that		e requireme	nts of the	
Type Code Symbol Stamp	Not A	Applicable			
Certificate of Authorization Number	Not Applicable	Expiration Date	Not A	pplicable	
Signed Device Huge David Hu Owner or Owner's Designe	bbard/Technical Specialist II	Date	5/23/200	7	
			·		
CE	ERTIFICATE OF INSERVICE IN	SPECTION			
I, the undersigned, holding a valid cor Inspectors and the State or Province of of Hartford, Co in this Owner's Report during the period to the best of my knowledge and belied described in this Owner's Report in according to the By signing this certificate neither the concerning the examinations and correct Inspector nor his employer shall be liable kind arising from or connected with this in	nnecticut 514-07 ef, the Owner has performed ance with the requirements he Inspector nor his employ ctive measures described in e in any manner for any personal control of the contro	and employed by have inspecte to 5-25-0 d examinations and of the ASME Code, ver makes any wan this Owner's Repo	ed the comp 7 d taken co Section XI. rranty, expr ort. Further	ASB CT conents deconents decone	ate that easure implied ther th
Inspector's Signature Date 5/25/07	Commissions 20	National Board, State	e, Province, an	d Endorseme	ents
Date					



As require	ed by the provisions of the ASI	ME Code Section	XI		1	rder Nur 016825	nbe 510 - 06	3	Sheet	Page 1 of 2
1. Owner	Duke Power Company	_	2. Plant Occ	nee Nuclear Stati	ion	•			Unit 2	
	526 South Church Street		780	0 Rochestor Hwy						
	Charlotte, NC 28201-1006		Sen	eca, SC 28672			_		Date	5/15/2007
3. Work Per	rformed By					Туре Со	de Symbol	Stamp	Not Appli	cable
	Duke Power Company					Author	ization Num	ber		
	526 South Church Street					_			Not Appli	cable
	Charlotte, NC 28201-1006					Expirat	ion Date		Not Appli	icable
4. Identifica	ation of Systems, ASME Class	ure Injection - Hig	h Pressure Porti	on , ASME Cla	ss 1					
(b) Applical	ble Construction Cod <u>USAS B31.7</u> ble Edition Section XI Utilized For R/R A ble Section XI Codes Cases(s)	1967: Editio activity 1998: Editio	- <u>-</u>	No Code Case						
3. Identificati	ion of Coimponents			·						
	Name of Component	Manufactur:	Manufacture Serial Number	National Board No	Othe identific	-	Year Built	Rer	rrected, moved or nstalled	ASME Code Stamped (Yes/No)
	0-1479E-H1E, Size 2-1/2 x ulic Snubber Cylinder (New	Grinnell	16030	UNK	N/A		UNK	Ren	noved	No
,	479E-H1E, Size 2-1/2 x 5 c Snubber Cylinder (Config.	Anvil	36542	UNK	UTC 182352	:9	UNK	Inst	alled	No
							-			
7 Descripti	ion of Work									
Reb	uilt existing snubber cylinder v	vith a Config. A pr	essurized cylinde	er.						
8. Test Con	nducted			 						
	Hydrostatic	atic	minal Operating	Pressure 🗌 I	Excempt	: [✓ Othe	er	Visual	
	Pressure	PSI ·			Test Te	mnore	tura		Dea	_



* The the manifely and of the ACME Code	A dam VI			
equired by the provisions of the ASME Code	Section Ai	Work Order Nu	mbe S	Sheet
•		01682	510 - 06	Page 2 of 2
emarks (Applicable Manufactuerr's Data Reports to be	attached)			
Replaced existing snubber cylinder with Con	ifig. A type.			
	CERTIFICATION OF	COMPLIANCE		
I certify that the statements made in the r ASME Code, Section XI	eport are correct and that this c	conforms to the requiremen	nts of the	
Type Code Symbol Stamp	Not	Applicable		
Certificate of Autherization Number	Not Applicable	Expiration Date	Not Applic	able
Signed Small that	S- Fa	Date 5/16	107	
Owner or C	Dwner's Designee, Mile		<i></i>	
CER	TIFICATION OF INSER	RVICE INSPECTION	N	
I, the undersigned, holding a valid committee inspectors and State or province of work				
		mployed by <u>H</u> lave inspected the compon	ISB CT	
of <u>Hartford, Conne</u> in the Owner's Report during the period		•	ents described , and state th	nat
III the Owner's report during the period	5-7-07 to			at
to the heet of my knowledge and helief the				
to the best of my knowledge and belief, the described in this Owner's Report in accorda		he ASME Code, Section Xւ	1.	
described in this Owner's Report in accorda	ance with the requirements of the			
described in this Owner's Report in accorda	ance with the requirements of the poector nor his employer make as	ny warrenty, expressed or i	implied,	
described in this Owner's Report in accorda By signing this certificate neither the insp concerning the examinations and corrective	ance with the requirements of the sector nor his employer make are measures described in this O	ny warrenty, expressed or i	implied, e, neither the	
described in this Owner's Report in accorda	ance with the requirements of the pector nor his employer make are measures described in this Own any manner for any personal in	ny warrenty, expressed or i	implied, e, neither the	
By signing this certificate neither the insp concerning the examinations and corrective inspector nor his employer shall be liable in	ance with the requirements of the pector nor his employer make are measures described in this Own any manner for any personal in	ny warrenty, expressed or i	implied, e, neither the	
By signing this certificate neither the insp concerning the examinations and corrective inspector nor his employer shall be liable in any kind rising from or connected with this	ance with the requirements of the pector nor his employer make are measures described in this Orn any manner for any personal inspection.	ny warrenty, expressed or i wner's Report. Furthermore injury or property damage o	implied, e, neither the	
By signing this certificate neither the insp concerning the examinations and corrective inspector nor his employer shall be liable in any kind rising from or connected with this	pector nor his employer make are measures described in this On any manner for any personal inspection.	ny warrenty, expressed or i wner's Report. Furthermore injury or property damage o	implied, e, neither the or a loss of	

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1708341-01,-14,-03 1 of 3 2. Plant Unit 1. Owner ONS - 2 Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 5/17/2007 3. Work Performed by Type Code Symbol Stamp Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class LPSW, ASME Class 2 5. (a) Applicable Construction Code: USAS B31.7 19 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 Name of Manufacturer National Other Corrected. **ASME** Year Component Manufacturer Serial Number Board No. Identification Built Removed. Code or installed Stamped (Yes / No) tube bundle, a 0 2C Aerofin None None "part" of S/N 1993 Removed YES RBCU Coil # 1 940510 2C Aerofin 070214 2157 Tube bundle 2007 Installed YES RBCU Coil #1 tube bundle, a **0** 2C Aerofin None None "part" of S/N 1993 Removed YES RBCU Coil #2 940509 2C Aerofin 070215 2158 Tube bundle 2007 Installed YES RBCU Coil #2 tube bundle, a 2CA Aerofin None None "part" of S/N 1993 Removed YES RBCU Coil #3 940503 **2** 2CA Aerofin 070216 2159 Tube bundle 2007 Installed YES RBCU Coil #3 tube bundle, a 2C 1993 YES Aerofin None None "part" of S/N Removed RBCU Coil #4 940508 2C 2007 YES Aerofin 070217 2160 Tube bundle Installed RBCU Coil #4 7. Description of Work - Planned replacement of the 2C RBCU Coil tube bundles required removal/reinstal!ation of the cooler waterbox. This involved disassembling the Low Pressure Service Water (LPSW) piping to the coils. The 5/8-inch & 3/4-inch diameter PSW piping bolting material for the piping-to-coil waterbox flanges required replacement due to surface degradation. - All 4 of the 2C RBCU coil tube bundles were replaced with new bundles due to extensive tube degradation. 8. Test Conducted Hydrostatic Nominal Operating Pressure Pneumatic Exempt Pressure **PSI** Test Temperature

						Work Order Nu	ımber		Sheet		
						170	8341		2 of 3		
1. Owner			2. P	lant		· · ·			Unit		
Duke F	Energy Carolinas,	LLC		Oconee N	lucle	clear Station ONS - 2					
	uth Church Street			7800 Roc							
Charlo	tte, NC 28201-10	06		Seneca, S	C 2	9672			5/17	/2007	
3. Work Perform	ned by					Type Code Syr			•		
Duka l	Energy Carolinas,	LLC				Not Applicable					
	outh Church Stree					Authorization		Applicat	ole		
	otte, NC 28201-10					Expiration Dat	е				
								Applical	ole		
4. Identification of System, ASME Class LPSW, ASME Class 2											
(b) Applicable E	construction Code: dition Section XI Uti ection XI Code Cas			19 69 19 98	-	ition, No 2000	Adde		No C	Code Case	
6. Identification	n of Components										
Name of Component	Name of Manufacturer	Manufactur Serial Numb		National Board No.	lde	Other entification	Year Built	Rem	rected, noved, stalled	ASME Code Stamped (Yes / No)	
© 2C RBCU coils (all 4)	Aerofin	940503, 94050 940509, 9405		548, 553, 554, 555		None	1993	Cor	rected	YES	
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	Work Order Number	Sheet				
	1708341	3 of 3				
9. Remarks (Applicable Manufacturer's Data Reports to be attached)						
① 2C RBCU Coils # 1, 2, 3 & 4 had the tube bundles removed (due to extensive tube degradation) and replaced with new tube bundles. The waterboxes to the coils were not replaced, only the tube bundles. The waterboxes from the 4 old coils were reused. Note that the waterbox is the subcomponent of the entire coil assembly that has the N-stamp nameplate attached to it. ② 2C RBCU Coils # 1, 2, 3 & 4 - new tube bundles were installed. The tube bundle is a subcomponent of a RBCU coil. The coils are N-stamped components. (Form N-1's attached). The waterboxes to the coils were not replaced, only the tube bundles (NPT stamped parts, Form N-2's attached). The waterboxes from the 4 old coils were reused and were bolted up to the new bundles. ③ Replaced 5/8-inch diameter nuts (SA194 Gr 2H) and studs (SA193 B7 threaded rod) on the 2C RBCU Coil waterbox-to-LPSW piping flanges. (Cat ID# 293556, UTC # 0001846136, and Cat ID# 297412, UTC # 0001846130). Replaced 3/4-inch diameter nuts (SA194 Gr 2H) and studs (SA193 B7 threaded rod) on the 2C RBCU LPSW piping flanges. (Cat ID# 131796, UTC # 0001831665 and Cat ID# 297413, UTC # 0001846529 and 0001846063.)						
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3						
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						
	Expiration Date Not A	pplicable				
		-				
CERTIFICATE OF INSERVICE INS	PECTION					
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ABETH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5-9-07 to 7-13-07, and state that to the best of my-knowledge and belief, the Owner has performed examinations and taken corrective 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, Province, an	d Endorsements				
Date 7-13-07	250.5, 500.0, 10,000, 40					

				Work Order Num	ber	Sheet		
				1708343-	-02,-14,-03	1 o	1 of 3	
1. Owner		2. P	lant			Unit		
	ergy Carolinas, LL	.c		ee Nuclear Station ONS - 2				
	Church Street NC 28201-1006		7800 Roche Seneca, SC	•		Date 5/17	7/2007	
3. Work Performed	d by			Type Code Symi	ool Stamp			
	,			1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		pplicable		
	Duke Energy Carolinas, LLC 526 South Church Street				umber Not Ap	pplicable		
Charlotte, NC 28201-1006				Expiration Date	Not Ap	pplicable		
4. Identification of	System, ASME CI		SW, ASME Class	2				
(b) Applicable Editi(c) Applicable Sect	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	f 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 2B RBCU Coil # 1	Aerofin	None	None	tube bundle, a "part" of S/N 940504	1993	Removed	YES	
2B RBCU Coil # 1	Aerofin	070210	2153	Tube bundle	2007	Installed	YES	
O 2B RBCU Coil # 2	Aerofin	None	None	tube bundle, a "part" of S/N 940502	1993	Removed	YES	
2 2B RBCU Coil # 2	Aerofin	070211	2154	Tube bundle	2007	Installed	YES	
2B RBCU Coil # 3	Aerofin	None	None	tube bundle, a "part" of S/N 940501	1993	Removed	YES	
2B RBCU Coil # 3	Aerofin	070212	2155	Tube bundle	2007	Installed	YES	
1 2B RBCU Coil # 4	. Aerofin	None	None	tube bundle, a "part" of S/N 940507	1993	Removed	YES	
2 2B RBCU Coil # 4	, Aerofin	070213	2156	Tube bundle	2007	Installed	YES	
7. Description of	Work							
- Planned replacement of the 2B RBCU Coil tube bundles required removal/reinstallation of the cooler waterbox. This involved disassembling the Low Pressure Service Water (LPSW) piping to the coils. The 5/8-inch & 3/4-inch diameter IPSW piping bolting material for the piping-to-coil waterbox flanges required replacement due to surface degradation All 4 of the 2B RBCU coil tube bundles were replaced with new bundles due to extensive tube degradation.								
	8. Test Conducted Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Pressure PSI Test Temperature F							

As required by the	provisions of the AS	SME Code Section X	I				
				Work Order N	lumber	Sheet	
				17	08343	2 0	of 3
1. Owner		2.	Plant			Unit	
	Energy Carolinas,		Oconee 1	Nuclear Station		O	NS - 2
	uth Church Street	B.		chester Hwy		Date	
Charlo	tte, NC 28201-10	006	Seneca, S	SC 29672		5/1′	7/2007
3. Work Perform				Type Code Sy		p Applicable	
	Energy Carolinas, outh Church Stree			Authorization		Applicable	
Charlo	otte, NC 28201-10	006		Expiration Da		Applicable	
4. Identification	of System, ASME		LPSW, ASME CI	ass 2			
(b) Applicable E	construction Code: dition Section XI Ut ection XI Code Cas	USAS B31.7 ilized For R/R Activi e(s) <u>None</u>		Edition, No 2000			Code Case
6. Identification	n 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)
3 2B RBCU coils (all 4)	Aerofin	940501, 940502, 940504, 940507	546, 547, 549, 552	None	1993	Corrected	YES
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	Work Order Number	Sheet				
	1708343	3 of 3				
9. Remarks (Applicable Manufacturer's Data Reports to be attached)						
② 2B RBCU Coils # 1, 2, 3 & 4 had the tube bundles removed (due to extensive tube degradation) and replaced with new tube bundles. The waterboxes to the coils were not replaced, only the tube bundles. The waterboxes from the 4 old coils were reused. Note that the waterbox is the subcomponent of the entire coil assembly that has the N-stamp nameplate attached to it. ② 2B RBCU Coils # 1, 2, 3 & 4 - new tube bundles were installed. The tube bundle is a subcomponent of a RBCU coil. The coils are N-stamped components. (Form N-1's attached). The waterboxes to the coils were not replaced, only the tube bundles (NPT stamped parts, Form N-2's attached). The waterboxes from the 4 old coils were reused and were bolted up to the new bundles. ③ Replaced 5/8-inch diameter nuts (SA194 Gr 2H) and studs (SA193 B7 threaded rod) on the 2B RBCU Coil waterbox-to-LPSW piping flanges. (Cat ID# 293556, UTC # 0001846136, and Cat ID# 297412, UTC # 0001824477, 0001090837, 0001088217.) Replaced 3/4-inch diameter nuts (SA194 Gr 2H) and studs (SA193 B7 threaded rod) on the 2B RBCU LPSW piping flanges. (Cat ID# 131796, UTC # 0001831665 and Cat ID# 297413, UTC # 0001846063.)						
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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 Owner or Owner's Designee, Title	Date 5/17/2007					
of Hartford, Connecticut	al Board of Boiler and Pressurand employed by have inspected the company of examinations and taken confithe ASME Code, Section XI. er makes any warranty, expension of the Asmer's Report. Further conal injury or property damage	ASB CT conents described and state that crective measures ressed or implied, rmore, neither the				
Inspector's Signature	National Board, State, Province, an	d Endorsements				
Date _ フ-/3-0フ						

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1 of 3 1708344-01,-15,-26 2. Plant Unit 1. Owner **ONS - 2** Duke Energy Carolinas, LLC Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 5/17/2007 **Type Code Symbol Stamp** 3. Work Performed by Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class LPSW, ASME Class 2 5. (a) Applicable Construction Code: **USAS B31.7** 19 Code Case Edition, No Addenda, No (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 2000 Edition. Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Name of Name of Manufacturer National Other Corrected. **ASME** Year Component Manufacturer Serial Number Board No. Identification Built Removed. Code or Installed Stamped (Yes / No) tube bundle, a 0 2A Aerofin None "part" of S/N 1993 Removed YES None RBCU Coil # 1 940505 0 2A Aerofin 070206 2149 Tube bundle 2007 Installed YES RBCU Coil # 1 tube bundle, a 2A Aerofin None None "part" of S/N 1993 Removed YES RBCU Coil # 2 940506 2A Aerofin 070207 2150 Tube bundle 2007 Installed YES RBCU Coil #2 tube bundle, a 2A YES "part" of S/N 1993 Aerofin None None Removed RBCU Coil #3 940511 **2** 2A 070208 2007 YES Aerofin 2151 Tube bundle Installed RBCU Coil #3 tube bundle, a 2A Aerofin "part" of S/N 1993 Removed YES None None RBCU Coil #4 940512 2A Aerofin 070209 2152 Tube bundle 2007 Installed YES RBCU Coil # 4 7. Description of Work - Planned replacement of the 2A RBCU Coil tube bundles required removal/reinstallation of the cooler waterbox. This avolved disassembling the Low Pressure Service Water (LPSW) piping to the coils. The 5/8-inch & 3/4-inch diameter ZPSW piping bolting material for the piping-to-coil waterbox flanges required replacement due to surface degradation. - All 4 of the 2A RBCU coil tube bundles were replaced with new bundles due to extensive tube degradation. 8. Test Conducted Nominal Operating Pressure Exempt Hydrostatic Pneumatic Other Test Temperature ٥F Pressure

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 2 of 3 1708344 2. Plant Unit 1. Owner **ONS - 2** Duke Energy Carolinas, LLC Oconee Nuclear Station 7800 Rochester Hwy 526 South Church Street Date Seneca, SC 29672 Charlotte, NC 28201-1006 5/17/2007 Type Code Symbol Stamp 3. Work Performed by Not Applicable Duke Energy Carolinas, LLC **Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class LPSW, ASME Class 2 (a) Applicable Construction Code: Code Case **USAS B31.7** 19 69 Edition, No Addenda, (b) Applicable Edition Section XI Utilized For R/R Activity 2000 19 98 Edition, Addenda. (c) Applicable Section XI Code Case(s) ___ None 6. Identification of Components Other Corrected, **ASME** Name of Name of Manufacturer National Year Code Component Manufacturer Serial Number Board No. Identification Built Removed. Stamped or Installed (Yes / No) **②** 2A 940505, 940506, 550, 551, 556, **RBCU** coils None 1993 Corrected YES Aerofin 940511, 940512 557 (all 4)

As required by the provisions of the ASME Code Section Ar		
	Work Order Number	Sheet
_	1708344	3 of 3
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
● 2A RBCU Coils # 1, 2, 3 & 4 had the tube bundles removed (due to extensive bundles. The waterboxes to the coils were not replaced, only the tube bundles. Note that the waterbox is the subcomponent of the entire coil assembly that has ② 2A RBCU Coils # 1, 2, 3 & 4 - new tube bundles were installed. The tube burdles are N-stamped components. (Form N-1's attached). The waterboxes to the coil stamped parts, Form N-2's attached). The waterboxes from the 4 old coils were Replaced 5/8-inch diameter nuts (SA194 Gr 2H) and studs (SA193 B7 three piping flanges. (Cat ID# 293556, UTC # 0001846136, and Cat ID# 297412, U0001846062, 0001846130, 0001821577). Replaced 3/4-inch diameter nuts (Standard Standard	The waterboxes from the 4 old the N-stamp nameplate attached bundle is a subcomponent of a RE Is were not replaced, only the tube reused and were bolted up to the aded rod) on the 2A RBCU Coil ITC # 0001821109, 0001834700, SA194 Gr 2H) and studs (SA193	coils were reused. I to it. BCU coil. The coils be bundles (NPT be new bundles. waterbox-to-LPSW, 0001092000, B7 threaded rod) on
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<u> </u>		
CERTIFICATE OF COMPLIAN I certify that the statements made in the report are correct and that the ASME Code, Section XI.		ents of the
Type Code Symbol Stamp Not A	pplicable	
1 1/0-11	Expiration DateNot A Date5/17/2007	Applicable 7
CERTIFICATE OF INSERVICE INS	PECTION	
of Hartford, Connecticut	have inspected the complete inspected the complete inspected the complete inspected the complete inspected in the ASME Code, Section XI. Further makes any warranty, expethis Owner's Report. Further	dSB CT conents described , and state that corrective measures ressed or implied, remore, neither the
Inspector's Signature Commissions	C/444/ WIRBC National Board, State, Province, ar	nd Endorsements
Date <u> </u>		



As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1712246-01 1 of 2 1. Owner 2. Plant Unit ONS - 1 Oconee Nuclear Station **Duke Power Company** 526 South Church Street 7800 Rochester Hwy Date Seneca, SC 29672 Charlotte, NC 28201-1006 5/6/2007 3. Work Performed by **Type Code Symbol Stamp** Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Main Steam System, ASME Class 2 5. (a) Applicable Construction Code: **USAS B31.1** 67 Edition, No Addenda, No Code Case Edition. 2000 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Addenda. (c) Applicable Section XI Code Case(s) _ None 6. Identification of Components Corrected, ASME Name of Name of Manufacturer National Other Year Component Manufacturer Serial Number Board No. Identification Built Removed, Code or Installed Stamped (Yes / No) Drawing P012-Valve 2MS-033 Velan None Cat ID 490583 2001 Corrected NO 996590-N04 (T) +(F) 7. Description of Work 2MS-035 was being disassembled for seat inspection. Two studs and two nuts were damaged during the disassembly. 8. Test Conducted Hydrostatic Nominal Operating Pressure Exempt Other | Visual Test Temperature Pressure

As required by the provisions of the Asivie Code Section Af	Work Order Number	Sheet
	1712246-01	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
1 Valve body/bonnet studs, Cat ID #494225, UTC #0001041169		
2 Valve body/bonnet nuts, Cat ID #494300, UTC #0001041192		
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•	11.00 10.00 00.00	
I certify that the statements made in the report are correct and that ASME Code, Section XI.	this conforms to the requirem	ents of the
(applicable	
	Expiration Date Not A	
Signed MCE Valve Engineer Owner or Owner's Designee, Title	Date5/7/200)7
CERTIFICATE OF INSERVICE INS	SPECTION	•
of Hartford, Connecticut	and employed by have inspected the come to 7-8-07 d examinations and taken confithe ASME Code, Section X er makes any warranty, exp this Owner's Report. Further	HSB CT ponents described , and state that orrective measures l. pressed or implied, ermore, neither the
Commissions V	C1444 DIRBC National Board, State, Province, a	and Endorsements
Date 7/P/07		



As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1 of 2 01680487-01 2. Plant 1. Owner Unit ONS - 2 **Duke Power Company** Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 5/7/2007 3. Work Performed by Type Code Symbol Stamp Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **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 98 2000 19 Edition, Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Name of **ASME** Name of Manufacturer **National** Other Year Corrected, Identification Component Manufacturer Serial Number Board No. Removed, Code Built or installed Stamped (Yes / No) Valve - 2HP-31 **Fisher Controls** 4768610 1969 Corrected NO None None 7. Description of Work PM work on the valve was being performed and the maintenance techs found the valve plug eroded. 8. Test Conducted Pneumatic Nominal Operating Pressure Exempt Other __ Hydrostatic Visual **Test Temperature** Pressure

L	Work Order Number	Sheet
	01680487-01	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
** *** *** *** *** *** *** *** *** ***		
• Valve plug/stem assembly, catalog ID # 18079, UTC # 0001061883	<u> </u>	
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CERTIFICATE OF COM		
I certify that the statements made in the report are correct and the ASME Code, Section XI.	that this conforms to the requirer	ments of the
	lot Applicable	
Certificate of Authorization Number Not Applicable		t Applicable
		, 1, pp.,,
Signed John alwards Senin Lech Specialist Owner or Owner's Designee, Title		
CERTIFICATE OF INSERVICE	E INSPECTION	
I, the undersigned, holding a valid commission issued by the Na Inspectors and the State or Province of		sure Vessel HSB CT
Inspectors and the State or Province of North CARSCINA of Hartford, Connecticut	have inspected the cor	
in this Owner's Report during the period 5-7-07	to 7-9-07	, and state that
to the best of my knowledge and belief, the Owner has perfor described in this Owner's Report in accordance with the requireme		
By signing this certificate neither the Inspector nor his em	ployer makes any warranty, ex	xpressed or implied,
concerning the examinations and corrective measures described		
Inspector nor his employer shall be liable in any manner for any kind arising from or connected with this inspection.	регзопан шјину он ргоронту чант	age of a loss of any
Commissions	10	
Inspector's Signature	National Board, State, Province,	and Endorsements
Date 7-9-07		

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 1672596 1 of 2 2. Plant Unit 1. Owner Oconee Nuclear Station ONS - 2 **Duke Power Company** 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 5/24/2007 3. Work Performed by Type Code Symbol Stamp Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Low Pressure Service Water, ASME Class 2 69 BUC 4/5/2007 5. (a) Applicable Construction Code: **USAS B31.7** 19 Edition, No Addenda, No Code Case (b) Applicable Edition Section XI Utilized For R/R Activity Edition, 2000 Addenda. (c) Applicable Section XI Code Case(s)_ None 6. Identification of Components Name of National Other Year Corrected, **ASME** Name of Manufacturer Board No. Identification Removed, Code Component Manufacturer **Serial Number Built** or Installed Stamped (Yes / No)

WNK 2A1 RCP Motor 4S-76P1 UNK Removed NO Westinghouse UNK uNK 2A1 RCP Motor Westinghouse 1S-89P686 UNK Installed NO UNK

	_
7. Description of Work	
Remove 2A2 Motor and install refurbished motor. The refurbishment included installation of a new upper bearing tube	3
bundle. New air coolers were installed in the refurbished motor on-site prior to plant installation. The old LPSW flange	е
hardware (nuts and bolts) was replaced with new hardware.	
8. Test Conducted	
Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other	
Pressure PSI Test Temperature °F	



	Work Order Number	Sheet
	1672596	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)	·	
● Upper Bearing Oil Cooler Tube Bundle - SC#591424 (Thermal Engineering	Vendor PN# 301-G-040)	-
Air Cooler - SC# 567690 (Thermal Engineering Vendor PN# 500-L-201-1F	H)	
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CERTIFICATE OF COMPLIA		anta of the
I certify that the statements made in the report are correct and that t ASME Code, Section XI.	INS COMOUNTS to the requireme	ille oi the
Type Code Symbol Stamp Not A	pplicable	
Certificate of Authorization Number Not Applicable	Expiration Date Not A	applicable
	Date <u>5/31/07</u>	
Owner or Owner's Designee, Title		
CERTIFICATE OF INSERVICE INS	PECTION	
I, the undersigned, holding a valid commission issued by the Nation Inspectors and the State or Province of	al Board of Boiler and Pressurand employed by have inspected the company or 7-9-07 examinations and taken confithe ASME Code, Section XI. er makes any warranty, experiments	HSB CT ponents described , and state that prrective measures ressed or implied,
Inspector nor his employer shall be liable in any manner for any pers kind arising from or connected with this inspection.	onal injury or property damag	
Commissions NC	National Board, State, Province, ar	nd Endorsements
Date <u> </u>		



					Work Order Num		Sheet 1	of 2	
1. Owner Duke Pov 526 South Charlotte		2. Plant Oconee Nuclear Station 7800 Rochester Hwy Date					NS - 2 /2007		
3. Work Performed	d by	1			Type Code Symb				
	wer Company h Church Street			Not Applicable Authorization Number Not Applicable					
	, NC 28201-1006	j		ŀ	Expiration Date		pplicable		
4. Identification of			ding Spray Pump,	AS	SME Class 2		pricuore		
5.(a) Applicable Cons(b) Applicable Editi(c) Applicable Sect6. Identification of	on Section XI Utilize	•			tion, 1975 tion, 2000	_ Addeno _ Addeno		Code Case	
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	1	Other dentification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)	
ON2BSPU0001	Ingersoll-Rand	UNK	UNK		UNK	UNK	Removed	NO	
ON2BSPU0001	Ingersoll-Rand	UNK	UNK		UNK	UNK	Installed	NO	
					***.				
						,			
	,								
7. Description of The rotating assers scope will be insp	mbly of the 2A Re		Spray Pump will b	e re	eplaced. All oth	ner parts	involved in the	work	
Test Conducte			Operating Pressure Test Temp	_		Other _ °F	Pump Flow Tes	sting	

		Work Order Number Sheet			
		1641998-1	2	2 of 2	
9. Remarks (Applicable Manufacturer's Data Reports to be at	tached)		 		
			······································		
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S	<u> </u>				
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	-				
CERTIFICA	TE OF COMPLIA	NCE			
I certify that the statements made in the report are cases ASME Code, Section XI.	orrect and that	this conforms to the	requirement	s of the	
Type Code Symbol Stamp	Not A	Applicable			
Certificate of Authorization Number Not Appli	cable	Expiration Date	Not App	olicable	
Signed Assist	stant Engineer	Date	1/9/2007		
wner or Owner's Designee, Title	· · · · · · · · · · · · · · · · · · ·				
	· · · · · · · · · · · · · · · · · · ·			·	
CERTIFICATE OI					
I, the undersigned, holding a valid commission issue Inspectors and the State or Province of Normal Commodition of Hartford, Connecticut in this Owner's Report during the period	od jug	nal Board of Boiler and and employed by have inspected to 7-5-07	HS	B CT	
to the best of my knowledge and belief, the Owner described in this Owner's Report in accordance with the By signing this certificate neither the Inspector reconcerning the examinations and corrective measure Inspector nor his employer shall be liable in any many kind arising from or connected with this inspection.	has performed e requirements of nor his employed s described in	d examinations and of the ASME Code, S er makes any warra this Owner's Report	ection XI. anty, expres Furtherm	ective measures ssed or implied, lore, neither the	
Inspector's Signature	imissions <u>X</u>	National Board, State, F	Province, and	Endorsements	
Date					

. , ,	ovisions of the ASMI			Work Order Nur	nber	Sheet		
				166	5331	1	of 2	
1. Owner			Plant			Unit		
Duke Power Company				clear Station	<u>_</u>	Ol	NS - 2	
526 South Church Street Charlotte, NC 28201-1006			7800 Roche Seneca, SC	•	-		Date 5/24/2007	
. Work Performe	d by	I		Type Code Sym				
Duke Power Company				Not Applicable Authorization Number				
	h Church Street e, NC 28201-1006)		Expiration Date		pplicable		
				Expiration Date Not Applicable				
l. Identification of	f System, ASME C		1A-, ASME Class	2				
j.	etwortion Code	LICAC DOL 7	10 (0		A -d -d	de NI-	0-4-0	
(a) Applicable Cons(b) Applicable Editi	struction Code: ion Section XI Utilize	USAS B31.7 ed For R/R Activity		Edition, No 2000	Addenoted Add		Code Case	
	tion XI Code Case(s) None						
6. Identification of Name of	f Components Name of	Manustantuman	l National I	Other	l v		LACME	
Component	Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed,	ASME Code	
						or installed	Stamped (Yes / No	
HANGER 2-51A-3-0-	D.E.C	NONE	NONE	NONE	1973	Installed	NO	
444A-H75	D.L.C	NONE	NONE	NONE	1973	Ilistaneu	NO	
								
							<u> </u>	
-··								
***					1	<u> </u>		
-0								
	,							
7. Description of	Work			<u> </u>	.1.	,		
REPLACED BEI	NT ROD						·	
8. Test Conducte	ed							
Hydros	tatic Pneuma	tic Nomina	Operating Pressure	Exempt [Other			

As required by the provisions of the Asivie Code Section At						
	Work Order Number	Sheet				
	1665331	2 of 2				
9. Remarks (Applicable Manufacturer's Data Reports to be attached)						
● UTC # 1821912, HT # 502193, ASTM A36-Carbon Steel 1/2"						
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•						
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6						
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CERTIFICATE OF COM						
CERTIFICATE OF COMP						
I certify that the statements made in the report are correct and t ASME Code, Section XI.	that this conforms to the requirem	nents of the				
Type Code Symbol Stamp N	lat Applicable	•				
		1				
Certificate of Authorization Number Not Applicable						
Signed ASHCRAFT-ASSISTANT ENGINEER Owner or Owner's Designee, Title	R Date 5/24/20	007				
Owner or Owner's Designee, Time						
						
CERTIFICATE OF INSERVICE		_				
I, the undersigned, holding a valid commission issued by the Na Inspectors and the State or Province of North Chrolina	ational Board of Boiler and Press and employed by	sure Vessel HSB CT				
of Hartford, Connecticut	have inspected the con					
in this Owner's Report during the period 6-13-07	to 6-15-07	, and state that				
to the best of my knowledge and belief, the Owner has perfor	rmed examinations and taken of	corrective measures				
described in this Owner's Report in accordance with the requirement						
By signing this certificate neither the Inspector nor his employed concerning the examinations and corrective measures described						
Inspector nor his employer shall be liable in any manner for any						
kind arising from or connected with this inspection.	, , , ,					
Commissions	NC1444 NIABC					
Inspector's Signature	National Board. State. Province,	and Endorsements				
Date <-/3-07						
		!				

As required by the pre	Visions of the Asivii	s code sound	711		Γ	Work Order Num	ber	Sheet		
						01666173		1	of 2	
1. Owner	. Owner 2. Plant			nt				Unit		
Duke Pov	ver Company			Oconee Nu	iclea	ar Station		O	NS - 2	
	Church Street			7800 Roch		•		Date		
Charlotte,	, NC 28201-1006			Seneca, SC	C 29672 5/24/20			1/2007		
3. Work Performed by Type Code Symbol Stamp Not Applicable			nlicable							
Duke Pov	Duke Power Company			Authorization Nur						
	h Church Street			·				plicable		
Charlotte	, NC 28201-1006	i			ſ	Expiration Date	Not Ar	plicable		
4. Identification of	f System, ASME CI	ass			i		110171	pricable		
		03	-Feed	water, ASME C	lass	s 2			<u> </u>	
5. (a) Applicable Cons	struction Code	USAS B3	117	19 69	Edit	tion, No	Addend	la, No (Code Case	
(b) Applicable Editi				19 98		tion, $\frac{100}{2000}$	_ Addend	·		
(c) Applicable Sect) <u>None</u>		_			_			
6. Identification of	f Components									
Name of	Name of	Manufactu			Ι.	Other	Year	Corrected,		
Component	Manufacturer	Serial Num	iber	Board No.	'	dentification	Built	Removed, or Installed	Code Stamped	
									(Yes / No)	
2-57-1480B-	D.E.C	NONE		NONE		NONE	1973	Installed	NO	
H6618; Hanger					_					
							,			
					-					
					ļ		<u> </u>			
						 -				
					<u> </u>	<u> </u>				
	•									
7. Description of	<u>l</u> Work	l	<u>.</u>	•	<u> </u>		<u>L.</u>		<u> </u>	
Replaced U-bolt										
8. Test Conducte				· · · · · · · · · · · · · · · · · · ·			_			
Hydros				perating Pressure			Other			
	Pressure	PSI		Test Tem	pera	ture	•F			

As required by the provisions of the Asiar Code Section	11 741		Lau
·		Work Order Number	Sheet
		01666173	2 of 2
9. Remarks (Applicable Manufacturer's Data Repor	ts to be attached)		
1 1/2" U bolt UTC 1037417 PN# 137N			ν
②			
€	,,,,,		
•		.,	
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Φ			
			
CE I certify that the statements made in the rep ASME Code, Section XI.	RTIFICATE OF COMPLIA Port are correct and that		ents of the
Type Code Symbol Stamp	Not A	Applicable	
		Expiration Date Not	Applicable
Signed Z. Ashcraft-Assistant Engineer Owner or Owner's Designee, Title	ing wherethe	Date5/24/20	07
<u> </u>			
CERTIFI	CATE OF INSERVICE INS	SPECTION	
I, the undersigned, holding a valid commiss Inspectors and the State or Province of Of Hartford, Connect in this Owner's Report during the period to the best of my knowledge and belief, the described in this Owner's Report in accordance By signing this certificate neither the Instance Concerning the examinations and corrective in Inspector nor his employer shall be liable in a kind arising from or connected with this inspect	sion issued by the Nation TH CRECINA icut S-19-07 e Owner has performed with the requirements of spector nor his employmeasures described in any manner for any pers	nal Board of Boiler and Presson and employed by have inspected the complete described by the complete described by the ASME Code, Section X er makes any warranty, expension of the Owner's Report. Further	HSB CT ponents described , and state that orrective measures I. pressed or implied, ermore, neither the
Inspector's Signature	Commissions _\mathcal{N}C	National Board. State, Province, a	and Endorsements
Date <u> </u>	•	•	



As require	ed by the provisions of the ASM	ME Code Section	XI				order Nun 017489	nbe 168 - 01	Sheet	Page 1 of 2
1. Owner	Duke Power Company		2. Plant	Ocone	e Nuclear Stati	ion			Unit 2	
	526 South Church Street			7800 F	Rochestor Hwy				Date	
	Charlotte, NC 28201-1006		<u> </u>	Senec	a, SC 28672					5/15/2007
3. Work Per	rformed By						Туре Со	de Symbol	Stamp Not App	licable
	Duke Power Company						Authori	zation Num	ber	
	526 South Church Street						Not Applicable			
	Charlotte, NC 28201-1006 Expiration Date Not Applicable						licable			
4. Identifica	4. Identification of Systems, ASME Class Main Steam , ASME Class 2									
(b) Applical	ble Construction Cod <u>USAS B31.7</u> ble Edition Section XI Utilized For R/R A	1967 Edition 1998: Edition None	on, <u>No</u> Ad	ddenda <u>N</u> oddenda	o Code Case					_
6. Identificati	ion of Coimponents									
	Name of Component	Manufactur:	Manufac Serial Nu		National Board No	Othe identific		Year Built	Corrected, Removed or Installed	ASME Code Stamped (Yes/No)
	ga Size 305253 RF3 c Snubber (2-01A-0-1441-	Lisega	61316-73		UNK	N/A		UNK	Removed	No `
	Size 305253 RF3 Hydraulic (2-01A-0-1441-R2-2)	Lisega	01615040	-049	UNK	UTC 104511	16	UNK	Installed	No
7. Descripti	ion of Work bber was replaced due to leak	ing hydraulic fluid								
8. Test Cor	Hydrostatic Pnuem. Pressure	atic No	minal Opera	ating Pre	essure 🗌	Excempt		✓ Othe		g. F



	ection XI	Work Order Numb 0174896	l l	Page 2 of 2
Remarks (Applicable Manufactuerr's Data Reports to be atta	ached)			-
Removed snubber due to depleted hydraulic flu	uid			
		<u> </u>		
C	ERTIFICATION OF C	OMPLIANCE		, <u>-</u> , <u>-</u> ,-
I certify that the statements made in the rep ASME Code, Section XI	oort are correct and that this c	onforms to the requirements	of the	
Type Code Symbol Stamp	Not a	Applicable		
Certificate of Autherization Number	Not Applicable	Expiration Date	Not Applicable	
Signed / Karff Chir Sr. E	Eng	Date <u>5//6/</u>	07	
	ner's Designee, Title			
CERTI	FICATION OF INSER	VICE INSPECTION		
	FICATION OF INSER		/accal	
I, the undersigned, holding a valid commiss	sion issued by the National Bo	ard of Boiler and Pressure \	/essel B CT	
	sion issued by the National Bo	ard of Boiler and Pressure \	B CT	
I, the undersigned, holding a valid commiss Inspectors and State or province of	sion issued by the National Bo TH COROLINA and em cut	ard of Boiler and Pressure \ ployed by <u>HS</u>	B CT its described	
I, the undersigned, holding a valid commiss Inspectors and State or province of Hartford, Connection	tion issued by the National Bo TH CNROLING and err cut ha 5-3-0 to Owner has performed examina	ard of Boiler and Pressure \ ployed by <u>HS</u> ve inspected the componer <u>6-/3-0</u> ; tions and taken corrective m	B CT Its described , and state that	
I, the undersigned, holding a valid commiss Inspectors and State or province of Hartford, Connection the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief, the Owner's Report during the period to the best of my knowledge and belief.	sion issued by the National Bo TH COROLING and em cut ha 5-3-0 to where has performed examinate with the requirements of the cutor nor his employer make an eneasures described in this Overny manner for any personal in	ard of Boiler and Pressure \ Iployed by HS Ive inspected the componer It is and taken corrective me ASME Code, Section XI. If y warrenty, expressed or impore's Report. Furthermore,	B CT Its described , and state that neasures plied, neither the	
I, the undersigned, holding a valid commiss Inspectors and State or province of of Hartford, Connection in the Owner's Report during the period to the best of my knowledge and belief, the Odescribed in this Owner's Report in accordance. By signing this certificate neither the inspecton concerning the examinations and corrective in inspector nor his employer shall be liable in a any kind rising from or connected with this instantions.	sion issued by the National Bo TH COROLING and em cut ha 5-3-0 to where has performed examinate with the requirements of the cutor nor his employer make an eneasures described in this Overny manner for any personal in	ard of Boiler and Pressure \ ployed by HS ve inspected the componer \(\alpha - 13 - 0 \) tions and taken corrective me ASME Code, Section XI. y warrenty, expressed or imprer's Report. Furthermore, ijury or property damage or	B CT Its described , and state that neasures plied, neither the	



As require	ed by the provisions of the ASI	ME Code Section	XI		Work Orde		Sheet	
		******			010	682510 - 02		Page 1 of 2
1. Owner	Duke Power Company		2. Plant Ocone	e Nuclear Stati	on		Unit 2	
	526 South Church Street		7800 F	Rochestor Hwy			Date	
	Charlotte, NC 28201-1006		Senec	a, SC 28672			Date	5/15/2007
3. Work Pe	rformed By				Тур	e Code Symbol	Stamp Not Appl	icable
	Duke Power Company					uthorization Num		
	526 South Church Street						Not Appi	icable
:	Charlotte, NC 28201-1006				E	piration Date	Not Appl	icable
4. Identifica	ation of Systems, ASME Class		Main Steam	, ASME Cla	ss B	22 .13	12007	
(b) Applica	ble Construction Cod <u>USAS B31.7</u> ble Edition Section XI Utilized For R/R A ble Section XI Codes Cases(s)	1967 Activity 1998: Edition	-	o Code Case				
	ion of Coimponents	None		<u></u>	-			
	Name of Component	Manufactur:	Manufacture	National	Other	Year	Corrected,	ASME Code
	Name of Component	Walturactur.	Serial Number	Board No	identificat		Removed or Installed	Stamped (Yes/No)
	A-2-1-0-1401A-SR3, Size 2- Hydraulic Snubber Cylinder ller)	Grinnell	30210	UNK	N/A	UNK	Removed	No
	-1-0-1401A-SR3, Size 2-1/2 Iraulic Snubber Cylinder A)	Anvil	36134	UNK	UTC 1081152	UNK	Installed	No
		· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·	
	ion of Work uilt existing snubber cylinder v	vith a Config. A pr	ressurized cylinder.			,		
8. Test Cor	nducted							
	Hydrostatic	atic 🔲 No	minal Operating Pre	essure 🗌 E	Excempt	✓ Othe	er <u>Visual</u>	
	Pressure	PSI			Test Tem	perature	Deg	. F



As required by the provisions of the ASME Code Section XI						
	Work Order		Sheet			
		0168	32510 - 02	Page 2 of 2		
7. Remarks (Applicable Manufactuerr's Data Reports to be a	nttached)					
(1) Replaced existing snubber cylinder with Con	fig. A type.	<u></u>				
<u> </u>						
	CERTIFICATION OF	OMPLIANCE	-			
I certify that the statements made in the re	eport are correct and that this c	onforms to the requirem	ents of the			
ASME Code, Section XI	•	·				
Type Code Symbol Stamp	Not	Applicable				
Certificate of Autherization Number	Not Applicable	Expiration Date	Not /	Applicable		
Signed / /htm	Se Ena	Date 5/	16/07			
Owner or O	wner's Designee, Title		<u> </u>			
						
CERT	TIFICATION OF INSER	VICE INSPECTI	ON			
I, the undersigned, holding a valid commi		ard of Boiler and Press	ure Vessel			
	•	ployed by	HSB CT			
of Hartford, Connec		ive inspected the comp				
in the Owner's Report during the period to the best of my knowledge and belief, the		tions and taken correct				
described in this Owner's Report in accorda						
By signing this certificate neither the insp	ector nor his emplover make ar	v warrenty, expressed	or implied.			
concerning the examinations and corrective	measures described in this Ov	vner's Report. Furtherm	ore, neither th			
inspector nor his employer shall be liable in any kind rising from or connected with this i		ljury or property damag	e or a loss of			
Com	mision(s) NC1444N1X					
Inspector's Signature		Board, State, Province, and E	ndorsements			
D. A. T.	TABLET I	,, , ,,				

s required by the provisions	of the ASME Code Section	on Ai			der Numbe 11682510 - 0	Sheet 7	Page 1 of 2
1. Owner Duke Power Com	pany	2. Plant Ocone	e Nuclear Stat	ion		Unit 2	
526 South Church	Street	7800 1	Rochestor Hwy			<u> </u>	
Charlotte, NC 282	201-1006	Senec	a, SC 28672			Date	5/15/2007
3. Work Performed By					Type Code Symbo	Stamp Not App	licable
Duke Power Com	-			ľ	Authorization Nur	nber	
526 South Church				,		Not App	licable
Charlotte, NC 28	201-1006				Expiration Date	Not App	licable
4. Identification of Systems, ASME	Class	Main Steam	, ASME CI	ass 2			
(a) Applicable Construction Cod US (b) Applicable Edition Section XI Util (c) Applicable Section XI Codes Cas	ized For R/R Activity 1998: Ed	dition, <u>No</u> Addenda <u>N</u> dition, <u>2000</u> Addenda	lo Code Case			. <u>-</u> -"	
		- 1			1	 	
Name of Componer	nt Manufactur:	Manufacture Serial Number	National Board No	Othe identific		Corrected, Removed or Installed	ASME Code Stamped (Yes/No)
(1) 2-01A-0-1401B-R12(B), 1/4 x 5 Hydraulic Snubber C (New Miller)		18594	UNK	N/A	UNK	Removed	No
2-01A-0-1401B-R12(B), Siz x 5 Hydraulic Snubber Cylin (Config. A)		36329	UNK	UTC 109179	UNK	Installed	No
7 Description of Work Rebuilt existing snubbe	r cylinder with a Config. A	pressurized cylinder.	·				
8. Test Conducted					<u> </u>		
Hydrostatic	Pnuematic	Nominal Operating Pr	essure \square	Excempt	✓ Oth	ier <u>Visual</u>	
Pressure	PSI			Test Te	mperature	Deg	g. F

equired by the provisions of the ASME Code S	Section VI	F		
equired by the provisions of the Asiaic Code S	Section XI	Work Order	Numbe 32510 - 07	Sheet Page 2 of
		0180	32310 - 07	rage 2 01
emarks (Applicable Manufactuerr's Data Reports to be at	tached)			
Replaced existing snubber cylinder with Confi	g. A type.			
	CERTIFICATION O	E COMPLIANCE		
I certify that the statements made in the re ASME Code, Section XI	port are correct and that th	nis conforms to the requirem	ents of the	
Type Code Symbol Stamp		Not Applicable		
Certificate of Autherization Number	Not Applicable	Expiration Date	Not Ap	pplicable
Signed Pullby Sc.	<u> </u>	 Date 	116/07	
Owner or Ow	vner's Designee, Title		,,	
CERT	IFICATION OF INS	SERVICE INSPECTI	ON	
I, the undersigned, holding a valid commis	sion issued by the Nationa			
Inspectors and State or province of Noers of Hartford, Connec		d employed by have inspected the comp	HSB CT	ad
in the Owner's Report during the period		to 6-18-07		
to the best of my knowledge and belief, the	Owner has performed exar	minations and taken correct	ive measures	
described in this Owner's Report in accordant	nce with the requirements	of the ASME Code, Section	XI.	
By signing this certificate neither the inspe	ector nor his employer mak	e any warrenty, expressed	or implied,	
concerning the examinations and corrective				•
inspector nor his employer shall be liable in any kind rising from or connected with this in	any manner for any persor ispection.	nai injury or property damag	e or a loss of	
•	,			
	,			
138. As come	sicion(a)	// 1		
	nision(s) VC 19414			
Comm Inspector's Signature		ational Board. State. Province, and E	ndorsements	_



As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1 of 2 1733130 2. Plant Unit 1. Owner **Duke Power Company** Oconee Nuclear Station ONS - 2 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 5/10/2007 3. Work Performed by Type Code Symbol Stamp Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Low Pressure Service Water, 2LP-94, ASME Class 2 5. (a) Applicable Construction Code: **USAS B31.7** 19 69 Edition. Addenda, Code Case No (b) Applicable Edition Section XI Utilized For R/R Activity Edition. Addenda. BUC6/1/2007 2000 (c) Applicable Section XI Code Case(s) None 6. Identification of Components Manufacturer Name of Name of National Other Corrected, ASME Year Component Manufacturer Serial Number Board No. Identification Built Removed. Code or Installed Stamped (Yes / No) Aloyco/Walwor 2-LP-94 n/a n/a N2116-SP UNK Corrected NO th 7. Description of Work Inspect and replace body to bonnet bolting that have been damaged by corrosion on 2LP-94. Nuts 5/8 inch SC# 293556, studs were 5/8 inch all thread rod SC# 297412 8. Test Conducted Hydrostatic Nominal Operating Pressure Exempt Other F/V leak check Pneumatic **Test Temperature** Pressure



	Work Order Number	Sheet
	1733130	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		I
• Inspect and replace body to bonnet bolting that have been damaged by corro Gr 2H UTC # 0001846136;, studs were 5/8 inch all thread rod SC# 297412, SA		C# 293556 SA194
0		
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8	**************************************	
9		
•		
CERTIFICATE OF COMPLIA	NCE	
I certify that the statements made in the report are correct and that t ASME Code, Section XI.	his conforms to the requireme	nts of the
Type Code Symbol Stamp Not A	pplicable	
Certificate of Authorization Number Not Applicable	Expiration DateNot A	pplicable
Signed Sto Country Engineer Engineer Store	Date <u>5-/2-07</u>	
Owner of Owner's Designee, Title		
CERTIFICATE OF INSERVICE INS	PECTION	
I, the undersigned, holding a valid commission issued by the Nation Inspectors and the State or Province of North Chroches of Hartford, Connecticut in this Owner's Report during the period 5-7-07 to the best of my knowledge and belief, the Owner has performed described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employer concerning the examinations and corrective measures described in the Inspector nor his employer shall be liable in any manner for any personal straining from or connected with this inspection.	have inspected the composition have inspected the composition of the ASME Code, Section XI. The makes any warranty, expirits owner's Report. Furthe	ressed or implied,
Inspector's Signature Commissions	National Board, State, Province, an	d Endorsements
Date 6-7-07		

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 1 of 2 01667011 2. Plant Unit 1. Owner ONS - 2 Oconee Nuclear Station **Duke Power Company** 526 South Church Street 7800 Rochester Hwy Date Seneca, SC 29672 Charlotte, NC 28201-1006 9/5/2006 Type Code Symbol Stamp 3. Work Performed by Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class 2LP-7 2C Low Pressure Injection Pump Suction (LPI System), ASME Class 2 5. Edition. (a) Applicable Construction Code: **USAS B31.7** 19 69 No Code Case Addenda, No (b) Applicable Edition Section XI Utilized For R/R Activity No 19 89 Edition. Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Manufacturer National Other Corrected, ASME Name of Name of Year. Component Manufacturer Serial Number Board No. Identification Built Removed, Code or Installed Stamped (Yes / No) Remove existing N/A N/A N/A Powell N/A Removed NO wedge on 2LP-7 Installed new UTC # 1048310 N/A N/A 2002 Installed NO Pratt wedge on 2LP-7 7. Description of Work Replace the old wedge on 2LP-7 with a new wedge that has hardfacing added to the guides to improve dynamic performance. 2LP-7 is installed with the stem in a horizontal orientation. The hardfaced guide rail elliminates concerns or galling between the wedge guide rail and the body guide slot.

Nominal Operating Pressure Exempt

Test Temperature

Other Courtesy hydro test.

°F

8. Test Conducted

Hydrostatic

Pneumatic

Pressure

150

PSI

as required by the provisions of the Asivic Code Section Ar	Work Order Number	Sheet
•	01667011	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be at	tached)	·
• Replaced old wedge with new wedge (stock code # 49690	0), UTC #1048310.	
<u> </u>		
<u> </u>		
9		
6		
<u> </u>	, ,	
<u> </u>	<u> </u>	
8		
<u> </u>		
•		
CERTIFICA	TE OF COMPLIANCE	
I certify that the statements made in the report are cased ASME Code, Section XI.	correct and that this conforms to the requi	rements of the
Type Code Symbol Stamp	Not Applicable	
Certificate of Authorization Number Not Applie Signed Valve Eng,		lot Applicable
Owner or Owner's Designee, Title	neer Date 4/6/2006	
CERTIFICATE OF	F INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issue Inspectors and the State or Province of Hartford, Connecticut in this Owner's Report during the period 5-2 to the best of my knowledge and belief, the Owner	and employed by have inspected the o	HSB CT components described , and state that
described in this Owner's Report in accordance with the By signing this certificate neither the Inspector reconcerning the examinations and corrective measured Inspector nor his employer shall be liable in any many kind arising from or connected with this inspection.	e requirements of the ASME Code, Section nor his employer makes any warranty, significantly described in this Owner's Report. Fu	n XI. expressed or implied urthermore, neither th
Inspector's Signature	nmissions UC/444N/RBC National Board, State, Provin	ca and Endamamenta
Date /2-/2.	ivational board, State, Provin	ce, and endorsements

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1 of 2 1667011-4 Unit 1. Owner 2. Plant Oconee Nuclear Station ONS - 2 **Duke Power Company** 526 South Church Street 7800 Rochester Hwy Charlotte, NC 28201-1006 Seneca, SC 29672 5/22/2006 Type Code Symbol Stamp 3. Work Performed by Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Low Pressure Service Water System, ASME Class 2 5. (a) Applicable Construction Code: **USAS B31.7** 19 Edition, No Addenda, No Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 Edition, 2000 Addenda. (c) Applicable Section XI Code Case(s) 6. Identification of Components **ASME** Corrected, Name of Name of Manufacturer National Other Year Identification Removed. Code Manufacturer **Serial Number** Board No. **Built** Component or installed Stamped (Yes / No) Hanger 2-53B-**Duke Energy** NO None None Removed None unk 435B-EMO-H-50 Corporation Hanger 2-53B-**Duke Energy** 435B-EMO-H-50 2006 Installed NO None None None Corporation (1) 7. Description of Work Test Conducted Nominal Operating Pressure Exempt Hydrostatic Pneumatic **Test Temperature** ٥F PSI Pressure

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1667011-4 2 of 2 9. Remarks (Applicable Manufacturer's Data Reports to be attached) 1/2 inch threaded rod; SA193 Grade B7; S/C 297411; UTC 1089881 1/2 inch heavy hex. nut; SA194 Grade 2H; S/C 313135; UTC # 1088726 0 0 0 0 0 0 0 **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. Not Applicable Type Code Symbol Stamp Certificate of Authorization Number Not Applicable Expiration Date Not Applicable Signed Basil W. Currly Basil W. Carney, Jr. Senior Engineer Date 9/25/2006 Owner or Dyner'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 (NROLINA and employed by HSB CT have inspected the components described Hartford, Connecticut 8-30-06 to 10/12/66 , and state that in this Owner's Report during the period to the best of my knowledge and belief, the Owner has performed examinations and taken corrective 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 WC1444 WINDSC Notional Production National Board, State, Province, and Endorsements Date

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1 of 2 1635328 1. Owner 2. Plant ONS - 2 Oconee Nuclear Station **Duke Power Company** 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC. 29672 2/23/2007 Type Code Symbol Stamp 3. Work Performed by Not Applicable **Duke Power Company** Authorization Number 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class Main Steam, ASME Class 2 5. USAS B31.1 (a) Applicable Construction Code: 67 Edition. No Addenda, Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 98 2000 19 Edition, Addenda. (c) Applicable Section XI Code Case(s) None 6. Identification of Components Name of Name of Manufacturer National Other Year Corrected, **ASME** Serial Number Identification Removed, Code Component Manufacturer Board No. Built or installed Stamped (Yes / No) Thermowell (2) Unk Unk Unk Unk Removed NO Half Coupling (2) Unk Unk Unk Unk Installed YES Plug (2)" Unk Unk Unk Unk Installed YES 7. Description of Work OE-18468, Removed two 1-1/2" thermowells and installed two 2" 6000# threaded half couplings, two 2" plugs and four 3/4" 3000# threaded half couplings. Test Conducted Pneumatic Nominal Operating Pressure Exempt ___ Hydrostatic **Test Temperature** PSI Pressure

		Work Order Number	Sheet
		1635328	2 of 2
9. Remarks (Applicable Manufacturer's Data Repo	orts to be attached)		
Removed two thermowells, 1-1/2" dia.	2.505000 17700 101500		
Installed two 2" Treaded Half coupling (CAT II UTC 1822410).) 595028, UTC 1845729) an	d two 2" Threaded Plug (C	CAT ID 588792,
<u> </u>			
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<u> </u>			
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C	ERTIFICATE OF COMPLIA	NCE	
I certify that the statements made in the re ASME Code, Section XI.	eport are correct and that t	his conforms to the requ	uirements of the
	No. A	muli ashla	
		pplicable	
Certificate of Authorization Number	Not Applicable	Expiration Date	
Signed Lekamon Engite Owner or Owner's Designer, Tit	ie est	Date <u>5/23/07</u>	
Owner of Owner a Designee, The			
	FICATE OF INSERVICE INS		roccura Vacant
I, the undersigned, holding a valid commission of Inspectors and the State or Province of		and employed by	HSB CT
of Hartford, Connec	ticut	•	components described
in this Owner's Report during the period		0 5-30-07	, and state that
to the best of my knowledge and belief, the described in this Owner's Report in accordance			
By signing this certificate neither the In	ispector nor his employe	r makes any warranty	, expressed or implied,
concerning the examinations and corrective			
Inspector nor his employer shall be liable in kind arising from or connected with this inspec		onal injury of property (amaye or a loss or any
As the	Commissions	1144. 1100	
Inspector's Signature	Commissions AC	1444NIBS National Board, State, Provi	ince, and Endorsements
Date _5/30/07			
			

As required by the pro	visions of the ASM	E Code Section XI		West Office	- L	l ou i	
				Work Order Nur		Sheet	of 2
4				0173	/85/		of 2
1. Owner		2. PI		1 0 1		Unit	NIC 2
	ver Company Church Street		Oconee Nu 7800 Roche	clear Station		<u> </u>	NS - 2
	NC 28201-1006	; [Seneca, SC	•		Date Δ/3(0/2007
3. Work Performed	d by			Type Code Sym	bol Stamp	4/30	5/2007
	-			,,,,,		pplicable	
	ver Company Church Street			Authorization N		pplicable	
	, NC 28201-1006	5		Expiration Date	······································	7,7	
					Not A	pplicable	
4. Identification of	System, ASME Cl		W, ASME Class	: 2			
 5.			, , , , , , , , , , , , , , , , , , ,				
(a) Applicable Cons		USAS B31.7		Edition, No	Adden	′ 	Code Case
(b) Applicable Edition(c) Applicable Section		•	19 _ 98	Edition, 2000	_ Adden	da.	
6. Identification of	<u> </u>) None					
Name of	Name of	Manufacturer	National	Other	Year	Corrected,	ASME
Component	Manufacturer	Serial Number	Board No.	Identification	Built	Removed, or Installed	Code Stamped
							(Yes / No)
1.) 2-14B-1480C-	DPCo	None	None	None	UNK	Removed	NO
H6537						1	
2.) 2-14B-1480C- H6537	DPCo	None	None	None	2007	Installed	NO
3.)2-14B-1480C-	DPCo	NI	N Y	N	IDIK	n ,	NO
H6538	DPCo	None	None	None	UNK	Removed	NO
4.)2-14B-1480C- H6538	DPCo	None	None	None	2007	Installed	NO
110338				· · · · · · · · · · · · · · · · · · ·	<u> </u>		
			;				
				<u> </u>			
					<u> </u>		
					i		
·•							
7. Description of	Monte			·····		L	<u> </u>
OE201547; S/R 2		37 - Temporarily	v remove and rei	nstall with additio	mal 3/4" i	olate	
S/R 2-14B-1480C							
. Test Conducte	ed					·	
Hydrost	atic Pneumat	tic Nominal C	perating Pressure	Exempt [Other		
	Pressure	PSI	Test Temp	erature	°F		_

Sheet
2 of 2
ments of the
t Applicable
sure Vessel
HSB CT
HSB CT mponents described , and state that corrective measures
HSB CT mponents described , and state that corrective measures XI.
mponents described, and state that corrective measures XI. xpressed or implied, hermore, neither the
mponents described, and state that corrective measures XI. xpressed or implied, hermore, neither the
HSB CT mponents described , and state that corrective measures XI. xpressed or implied, hermore, neither the lage or a loss of any
mponents described, and state that corrective measures XI. xpressed or implied, hermore, neither the

As required by the provisions of the ASME Code Section XI Work Order Number Sheet 1 of 2 01675527 1. Owner 2. Plant ONS - 2 **Duke Power Company** Oconee Nuclear Station 526 South Church Street 7800 Rochester Hwy Date Charlotte, NC 28201-1006 Seneca, SC 29672 5/22/2007 3. Work Performed by Type Code Symbol Stamp Not Applicable **Duke Power Company Authorization Number** 526 South Church Street Not Applicable Charlotte, NC 28201-1006 **Expiration Date** Not Applicable 4. Identification of System, ASME Class MS, ASME Class 2 5. (a) Applicable Construction Code: **USAS B31.7** 19 67 Addenda, Code Case Edition, No (b) Applicable Edition Section XI Utilized For R/R Activity Edition, Addenda. 2000 BY AZU PERTELCOM DAVID PERRY SPENOT (c) Applicable Section XI Code Case(s) None 6. Identification of Components Name of Name of Manufacturer National Other Year Corrected, **ASME** Component Manufacturer Serial Number Board No. Identification Built Removed. Code or Installed Stamped (Yes / No) .) 2-01A-1441-**DPCo** Installed None None None 2007 NO H4346 2.) 2-01A-1441-DPCo None None None 2007 Installed NO H4347 7. Description of Work OD200711; Install new S/Rs 2-01A-1441-H4346 and H4347. Test Conducted Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Test Temperature Pressure

As required by the provisions of the ASME Code	Section XI	Work O	order Numb 0162190	er 527	Sheet 2 of 2
9. Remarks (Applicable Manufacturer's Data	Reports to be attached)			7/1/0	7
● 2-01A-1444-H4346; Fig 216 pipe clamp, T	S 3x2x1/4, Plate, 1/2, 3/4"				
2-01A-1444-H4347;Fig 216 pipe clamp, T	S 3x2x1/4, Plate, 1/2, 3/4"				
€				:	
•				·	
6					
6					
0					
6					
9					
0					
<u> </u>		····		····	_
I certify that the statements made in the ASME Code, Section XI. Type Code Symbol Stamp				requireme	ents of the
Certificate of Authorization Number	Not Applicable	Expiration		Not A	Applicable
Signed Will Company	Enginen	Date	5-22	07	
Owner of Owner's Designed David Perry	ee, Title				
			-	1	
I, the undersigned, holding a valid cor Inspectors and the State or Province of of Hartford, Co in this Owner's Report during the period to the best of my knowledge and belied described in this Owner's Report in according the examinations and correct Inspector nor his employer shall be liable kind arising from or connected with this in	nnecticut //-28-06 if, the Owner has performed dance with the requirements are Inspector nor his employetive measures described in any manner for any perspection.	onal Board and emp hav to ed examin of the ASI yer makes this Own	of Boiler a foyed by the inspected ations and ME Code, any war iner's Report or prop	ed the comp e 7 d taken co Section XI. ranty, exp ort. Furthe erty damag	HSB CT conents described, and state that corrective measures ressed or implied, ermore, neither the ge or a loss of any
Inspector's Signature	Commissions No.	National	Board, State	, Province, ar	nd Endorsements
Date 5/23/07					

As required by the provisions o	710.110	Code Debilor	11 741		Work C	rder Num	ber	Sheet	
						016514	72-01	1	of 2
1. Owner	···		2. Pla	ant				Unit	
Duke Power Com			Oconee Nuclear Station			Station		07	NS - 2
526 South Church Charlotte, NC 28			7800 Rochester Hwy Seneca, SC 29672			Date			
	201-1000	1	-	51241200					1/2007
3. Work Performed by					Type C	ode Symb	ool Stamp Not Ap	plicable	
Duke Power Con					Author	ization Nu		11 . 1. 1 .	
526 South Churc Charlotte, NC 28					Evnira	tion Date	Not Ap	plicable	·
0.1						non pate	Not Ap	oplicable	
4. Identification of System	, ASME Cla		1ain S	team, ASME Cl	ass 2				
5. (a) Applicable Construction (b) Applicable Edition Section (c) Applicable Section XI Construction (c) Applicable Section XI Construction	on XI Utilize ode Case(s)			19 69 19 98	Edition, Edition,	No 2000	_ Addeno _ Addeno	·	Code Case
6. Identification of Compo				National	04-		1 10	I 0	1 4045
	me of Ifacturer	Manufactu Serial Num		National Board No.	Oth Identifi		Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
MS-12 Cr	rosby	none		none	nor	ie	UNK	Corrected	NO
2MS-12 Bonnet Studs	JNK	none	-	none	nor	ie	UNK	Installed	NO
						,	·		
									:
7 5					<u> </u>				
7. Description of Work Bonnet was replaced due to stud thread engagemen	to degrade t.	d compress	ion sc	rew threads. No	w bonnet	studs we	ere instal	led to provide	proper nut
Test Conducted	٦.	<u> </u>				ĸ	a'	F/V Leak check	and
Hydrostatic Pres	Pneumati sure	_		perating Pressure Test Temp		mpt 🔀	lluner	stroke retest	

As required by the provisions of the ASME Code Section A	Work Order Number	Sheet
	01651472-01	2 of 2
9. Remarks (Applicable Manufacturer's Data Reports to be attached)		
Bonnet, Catalog ID: 586771, serial number: N900117-31-0001, UTC #: 184	16691	
Bonnet Studs, Catalog ID: 297388, UTC #: 1092005		
❸		
•		
6		,
6		
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		······································
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CERTIFICATE OF COMPLIA		
I certify that the statements made in the report are correct and that ASME Code, Section XI.	this conforms to the requirem	ients of the
Type Code Symbol Stamp Not A	applicable	
Certificate of Authorization Number Not Applicable	Expiration Date Not	Applicable
Signed, Engineer	Date 5/24/20	07
Owner or Owner's Designee, Title		
CERTIFICATE OF INSERVICE INS I, the undersigned, holding a valid commission issued by the Nation		uso Magani
Inspectors and the State or Province of NORTH CAROLINA	and employed by	HSB CT
of Hartford, Connecticut in this Owner's Report during the period	have inspected the com	ponents described , and state that
to the best of my knowledge and belief, the Owner has performed	examinations and taken of	orrective measures
described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employed	of the ASME Code, Section X er_makes_anv_warrantv_ext	l. pressed or implied
concerning the examinations and corrective measures described in	this Owner's Report. Furth	ermore, neither the
Inspector nor his employer shall be liable in any manner for any pers kind arising from or connected with this inspection.	onal injury or property dama	ige or a loss of any
Commissions alo	WYY NIBAC	
Inspector's Signature	National Board, State, Province, a	and Endorsements
Date		

6.0 Pressure Testing

Table 6-1 shows the number of Class 1 (Category B-P) and Class 2 (Category C-H) pressure tests completed for refueling outage EOC 22. There was no through-wall leakage observed during these pressure tests

Table 6-1 Outage Specific Summary					
Examination Category	Test Requirement	Total Completed EOC22			
В-Р	System Leakage Test (IWB-5220)	1			
C-H	System Leakage Test (IWC-5220)	10 ¹			

Table 6-2 shows a completion status of pressure tests conducted during the first period of the fourth 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-P	System Leakage Test (IWB-5220)	2	2	100%			
		SEE SEE CONTRACTOR	\$10 F1 \$40\$2.00.	in the state of th			
С-Н	System Leakage Test (IWC-5220)	52	52	100%			

Section 6 Prepared By:	Date:
Jim Boughman	6/13/07

Section 6 Reviewed By:	Date:
Saul W. Waltman	6-20-07

¹ Six pressure test zones were completed during the Refueling Outage Report EOC21 cycle but were not included in that report. As such, those tests are being included in this outage report. See Table 6-4 for identification of those tests.

The Class 1 (Category B-P) leakage test is required each refueling outage. Table 6-3 shows the completion data of the Class 1 (Category B-P) leakage test conducted during refueling cycle EOC22.

	Table 6-3 Detailed Class 1 Listing						
Zone Number	Boundary Dwg	EOC22 Completion Status	EOC22 VT-2 Examination Date	Code Case(s) Used			
OZ2L-1A	O-ISIL4-100A-2.1	Complete	5/28/2007	None			
	O-ISIL4-100A-2.2	Complete	5/28/2007	None			
	O-ISIL4-100A-2.3	Complete	5/28/2007	None			
	O-ISIL4-101A-2.1	Complete	5/28/2007	None			
	O-ISIL4-101A-2.4	Complete	5/28/2007	None			
	O-ISIL4-102A-2.1	Complete	5/28/2007	None			
	O-ISIL4-102A-2.3	Complete	5/28/2007	None			
	O-ISIL4-110A-2.1	Complete	5/28/2007	None			
	O-ISIL4-110A-2.4	Complete	5/28/2007	None			
OZ2L-1AA	O-ISIL4-101A-2.4	Complete	5/28/2007	None			
OZ2L-1V	O-ISIL4-100A-2.2	Complete	5/28/2007	None			
OZ2L-1Z	O-ISIL4-101A-2.4	Complete	5/28/2007	None			
OZ2L-16	O-ISIL4-101A-2.4	Complete	5/28/2007	None			

The Class 2 (Category C-H) leakage tests are required each period. Table 6-4 shows the completion data of the Class 2 (Category C-H) leakage tests required for the 1st Period.

	Table 6-4 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 ²	O-ISIL4-101A-2.3	Completed in EOC21	01/16/06	None		
		O-ISIL4-101A-2.4	Completed in EOC21	01/16/06	None		
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 ²	O-ISIL4-101A-2.3	Completed in EOC21	03/09/06	None
		O-ISIL4-102A-2.1	Completed in EOC21	03/09/06	None
		O-ISIL4-102A-2.2	Completed in EOC21	03/09/06	None
		O-ISIL4-104A-1.2	Completed in EOC21	03/09/06	None
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	Completed in EOC21	11/19/05	None
		O-ISIL4-102A-2.2	Completed in EOC22	05/26/07	None
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 ²	O-ISIL4-109A-1.1	Completed in EOC21	12/11/06	None
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 ²	O-ISIL4-101A-2.1	Completed in EOC21	01/09/06	None
		O-ISIL4-101A-2.3	Completed in EOC21	01/09/06	None
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	Completed in EOC21	11/19/05	None
31	OZ2L-28	O-ISIL4-102A-2.2	Completed in EOC21	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 ²	O-ISIL4-104A-1.1	Completed in EOC22	05/12/07	None
41	OZ2L-42A	O-ISIL4-110A-2.1	Completed in EOC21	11/23/05	None
42	OZ2L-42B	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
43	OZ2L-44	O-ISIL4-110A-2.1	Completed in EOC22	05/28/07	None
ļ		O-ISIL4-121B-2.3	Completed in EOC22	05/28/07	None
		O-ISIL4-121B-2.5	Completed in EOC22	05/28/07	None
		O-ISIL4-121D-1.2	Completed in EOC22	05/28/07	None
		O-ISIL4-121D-2.1	Completed in EOC22	05/28/07	None
		O-ISIL4-122A-2.1	Completed in EOC22	05/28/07	None
		O-ISIL4-133A-2.5	Completed in EOC21	11/19/05	None
44	OZ2L-6 ²	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	Completed in EOC22	05/28/07	None
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
	<u>. </u>	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

 $^{^2}$ This zone was completed during the Refueling Outage Report EOC21 cycle but was not included in that report. As such, this test is being included in Outage Report EOC22.