



Scott L. Batson  
Vice President  
Oconee Nuclear Station

**Duke Energy**  
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ONS-2014-34

March 3, 2014

Document Control Desk  
U. S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852-2746


Subject: Duke Energy Carolinas, LLC (Duke Energy)  
Oconee Nuclear Station, Unit 2  
Docket No. 50-270  
Unit 2, End of Cycle 26 Refueling Outage,  
Inservice Inspection Summary Report;  
Fourth Ten Year Inspection Interval

Pursuant to the 1998 Edition (with 2000 addenda) of the American Society Of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI of the ASME Subarticles IWA-6230 and IWA-6240, Duke Energy is providing the Inservice Inspection Summary Report for Oconee Unit 2, end of cycle (EOC) 26 Refueling Outage inspections enclosed with this letter.

Please note that this report does not include the results from Steam Generator Tube Inspections which is submitted as a separate report.

If there are any questions you may contact Corey Gray at (864) 873-6325.

Sincerely,

  
Scott L. Batson,  
Site Vice President  
Oconee Nuclear Station

Enclosure : Inservice Inspections, Oconee Unit 2, 2013 Refueling Outage EOC 26 (Outage 6).

A047  
MRR

cc: (w/ enclosure)

Mr. Victor McCree  
Region II Administrator  
U. S. Nuclear Regulatory Commission  
Marquis One Tower  
245 Peachtree Center Ave., NE, Suite 1200  
Atlanta, Ga 30303-1257

Mr. Richard Guzman  
(By electronic mail only)  
U. S. Nuclear Regulatory Commission  
Office of Nuclear Reactor Regulation  
One White Flint North, M/S O-8C2  
11555 Rockville Pike  
Rockville, MD 20852

cc: (w/o enclosure)

Mr. Eddy Crowe  
NRC Senior Resident Inspector  
Oconee Nuclear Station

Mrs. Susan Jenkins  
Section Manager  
Division of Waste Management  
Bureau of Land and Waste Management  
SC Dept. of Health & Environment Control  
2600 Bull St.  
Columbia SC 29201

**Owner's Report  
For  
INSERVICE INSPECTIONS**

**OCONEE UNIT 2  
2013 REFUELING OUTAGE  
EOC26 (OUTAGE 6)**

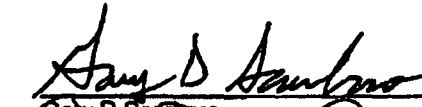
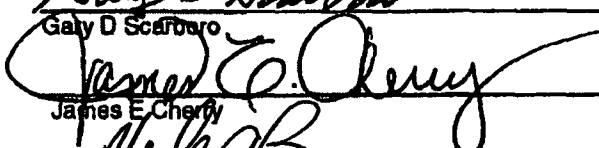
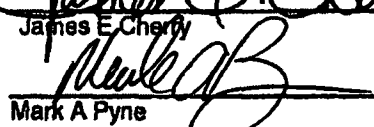
Plant Location: 7800 Rochester Highway, Seneca, South Carolina 29672

NRC Docket No. 50-270

Commercial Service Date: September 9, 1974

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

Revision 0

Prepared By:	 Gary D. Scarboro	Date	<u>2-21-2014</u>
Reviewed By:	 James E. Cherry	Date	<u>02/21/2014</u>
Approved By:	 Mark A. Pyne	Date	<u>2/2/2014</u>

## ***DISTRIBUTION LIST***

- 1. Duke Energy Carolinas  
Engineering Support GO  
Section XI Inspection Program Section**
- 2. NRC Document Control Desk**

**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:**

**Inspection Services (ISI Coordinator)**

**ANII at Oconee**

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

1. Owner: Duke Energy Carolinas, 526 S. Church St., Charlotte, NC 28201-1006  
 (Name and Address of Owner)
2. Plant: Oconee Nuclear Station, 7800 Rochester Highway, Seneca, SC 29672  
 (Name and Address of Plant)
3. Plant Unit: 2    4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: September 9, 1974    6. National Board Number for Unit N/A
7. Components Inspected:

Component or Appurtenance	Manufacturer Installer	Manufacturer Installer Serial No.	State or Province No.	National Board No.
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	<u>See Section 1.1 in the Attached Report</u>			_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
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_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**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.

FORM NIS-1 (Back)

- 8. Examination Dates November 18, 2011 to December 05, 2013
- 9. Inspection Period Identification: Third Period
- 10. Inspection Interval Identification: Fourth Interval
- 11. Applicable Edition of Section XI 1998 Addenda 2000
- 12. Date/Revision of Inspection Plan: July 03, 2013 / Revision 2
- 13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Sections 2.0, 3.0 and 6.0
- 14. Abstract of Results of Examination and Tests. See Sections 4.0 and 6.0
- 15. Abstract of Corrective Measures. See Subsection 4.3

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

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

Date 2/21/2014 Signed Duke Energy Carolinas. By [Signature]  
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 SOUTH CAROLINA employed by HSB Global Standards have inspected the components described in this Owner's Report during the period 11.18.2011 to 2.21.2014, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

[Signature] Commissions 1304B, 201, A, N, I, IS  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2.21.2014 **MARK E. ZURBUCH**

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

## **TABLE OF CONTENTS**

<b><u>Section</u></b>	<b><u>Title</u></b>	<b><u>Revision</u></b>
1.0	General Information	0
2.0	Fourth Ten Year Inspection Status	0
3.0	Final Inservice Inspection Plan	0
4.0	Results of Inspections Performed	0
5.0	Owners Report for Repair/Replacement Activities	0
6.0	Pressure Testing	0

## 1.0 General Information

This report describes the Inservice Inspection of Duke's Oconee Nuclear Station, Unit 2 EOC 26 (Outage 6 of the fourth interval). This is the last outage in the third inspection period of the Fourth Ten-Year Interval. ASME Section XI, 1998 Edition with the 2000 Addenda, was the governing Code for selection and performance of the ISI examinations.

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

## 1.1 Identification Numbers

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



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

## 1.2 Code Cases

The following Code Cases are permitted for use by the current ISI Plan:

Code Case N-460

Code Case N-504-2

**Code Cases (continued)**

Code Case N-513-2

Code Case N-532-4

Code Case N-586-1

Code Case N-609

Code Case N-613-1

Code Case N-624

Code Case N-639

Code Case N-643-2

Code Case N-648-1

Code Case N-663

Code Case N-665

Code Case N-683

Code Case N-685

Code Case N-694-1

Code Case N-695

Code Case N-700

Code Case N-706

Code Case N-722-1

Code Case N-729-1

Code Case N-770-1

### **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.

Problem Investigation Program (PIP) Report O-14-00547. This PIP was written to track the evaluation process and resolution for limited coverage on UT examinations of welds that were inspected during 2EOC26. This will include processing a relief request if it is determined that greater than ninety percent of the required coverage cannot be achieved. The welds with limited coverage are listed in Section 4.4 of this report.

Problem Investigation Process (PIP) Report O-14-00180 was written to document the work orders that had work completed during the 2EOC-26 report period but the documentation was not completed in time for the NIS-2 forms to be included in the 2EOC26 Refueling Outage Summary Report.

Problem Investigation Process (PIP) Reports O-13-10464, O-13-11253, O-13-11463, O-13-12075, O-13-11316, O-13-11318, and O-13-12905 were written to document and resolve component support problems identified during 2EOC26.

Problem Investigation Process (PIP) Report O-12-14100 removed Reactor Coolant Pump Flywheel Augmented Exam requirements from ISI Plan and relocated them to the site's work management system.

Request for Relief 03-006 / allows Duke an Alternative for the Snubber Examinations required in IWF-5000 for the 4<sup>th</sup> interval.

## 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. Appendix Q, Augmented, and Elective inspections are also included.

### Class 1 Inspections

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	(1) Deferral Allowed
B-A	Pressure Retaining Welds in Reactor Vessel	6	6	100%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	10	10	100%	No
B-D	Full Penetration Welds of Nozzles in Vessels Inspection Program B	54	54	100%	Partial
B-F	Pressure Retaining Dissimilar Metal Welds	2	2	100%	Yes
B-G-1	Pressure Retaining Bolting Greater than 2 Inches in Diameter	128	128	100%	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	20	20	100%	No
B-J	Pressure Retaining Welds in Piping	138	138	100%	No
B-K	Welded Attachments for Vessels, Piping, Pumps and Valves	11	11	100%	No

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

### Class 1 Inspections (Continued)

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed	(1) Deferral Allowed
B-L-1	Pressure Retaining Welds in Pump Casings	1	1	100%	Yes
B-L-2	Pump Casings	1	0	0% (3)	Yes
B-M-1	Pressure Retaining Welds in Valve Bodies	1	1	100%	Yes
B-M-2	Valve Bodies	3	1	33% (4)	Yes
B-N-1	Interior of Reactor Vessel	3	3	100%	No
B-N-2	Welded Core Support Structures and Interior Attachments to Reactor Vessels	3	3	100%	Yes
B-N-3	Removable Core Support Structures	1	1	100%	Yes
B-O	Pressure Retaining Welds in Control Rod Housings	12	12	100%	Yes
B-P	All Pressure Retaining Components	REFERENCE SECTION 6.0 OF THIS REPORT			
B-Q	Steam Generator Tubing	N/A	N/A	N/A	N/A
F-A F1.10 & F1.40 items.	Class 1 Component Supports (Except Snubbers)	37	37	100%	No
F-A F1.50 items.	Class 1 Component Supports, Snubbers				(2)

### Weld Overlay per Section XI Appendix Q

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed
Q-A	Q1.1 items Weld Overlay	2	2	100% (5)

## Class 2 Inspections

Examination Category	Description	Inspections Required	Inspections Completed	Percentage Completed
C-A	Pressure Retaining Welds in Pressure Vessels	11	11	100%
C-B	Pressure Retaining Nozzle Welds in Vessels	4	4	100%
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	40	40	100%
C-D	Pressure Retaining Bolting Greater Than 2 Inches in Diameter	2	2	100%
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	151	151	100%
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	62	62	100%
C-G	Pressure Retaining Welds in Pumps and Valves	N/A	N/A	N/A
C-H	All Pressure Retaining Components	REFERENCE SECTION 6.0 OF THIS REPORT		
F-A F1.20 & F1.40 Items.	Class 2 Component Supports (Except Snubbers)	140	117	100%
F-A F1.50 Items	Class 2 Component Supports, Snubbers			(2)

- (1) Deferral of inspection to the end of the interval as allowed by ASME Section XI Table IWB-2500-1.
- (2) Inspected under Selected License Commitment 16.9.18 per Relief Request 03-006.
- (3) Reactor Coolant Pumps were not disassembled during the 4<sup>th</sup> Interval so no exams were required per Table IWB-2500 Examination Category B-L-2.
- (4) Only 1 of 3 valve groups was disassembled during the 4<sup>th</sup> Interval, which is permissible per Note 2 in Table IWB-2500 Examination Category B-M-2 for Item B12.50.
- (5) All weld overlays are scheduled and examined per Appendix Q.

## Augmented/Elective Inspections

<b>Summary Number</b>	<b>Description</b>	<b>Percentage Complete</b>
O2.B4.30	Head with Nozzles and Partial Penetration Welds, Bare Metal Visual per Code Case N-729-1	None scheduled for EOC 26
O2.B4.40	Head with Nozzles and Partial Penetration Welds, Volumetric/Surface Exams per Code Case N-729-1	100% of EOC 26 Requirements
O2.B15.80	Reactor Vessel Bottom Head Bare Metal Visual per Code Case N-722-1	100% of EOC 26 Requirements
O2.B15.210	Hot Leg Full Penetration Weld, Bare Metal Visual per Code Case N-722-1	100% of EOC 26 Requirements
O2.B15.215	Cold Leg Full Penetration Weld, Bare Metal Visual per Code Case N-722-1	100% of EOC 26 Requirements
O2.G1.1	Reactor Coolant Pump Flywheel	Items removed from Augmented Plan per PIP O-12-14100.
O2.G2.1	HPI Nozzle Safe End Examinations	100% of EOC 26 Requirements
O2.G3.1	Pressurizer Surge Line Examinations (NRC Bulletin 88-11)	None scheduled for EOC 26
O2.G4.1	Thermal Stress Piping (NRC Bulletin 88-08)	100% of EOC 26 Requirements
O2.G12.1	UT Examination per MRP-139 / Code Case 770-1	None scheduled for EOC 26
O2.G12.2	UT Examination per MRP-139 / Code Case 770-1	100% of EOC 26 Requirements
O2.H2.1	Class 1 RTE Mounting Bosses	100% of EOC 26 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 26
O2.H4.1	Main Feedwater and Main Steam Piping Supports and Attachment Welds per QA-513J (ER-ONS-04-05)	100% of EOC 26 Requirements
O2.H5.1	East Penetration Main Feedwater Piping Welds and Attachments	None scheduled for EOC 26
O2.H6.1	Main Feedwater Rupture Restraint Attachment Welds	100% of EOC 26 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, Augmented, and Elective examinations credited for this report period.



**DUKE ENERGY**  
**NUCLEAR TECHNICAL SERVICES**  
**Inservice Inspection Database Management System**  
**Plan Report**  
**Oconee 2, 4th Interval, Outage 6 (EOC-26)**

ScheduleWorks

This report includes all changes through addendum ONS2-131

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.210.0001	2RC-278-66 Class 1 50	2RC-278 OM 1201-1469 OM 1201-1472	NDE-68	VT-2	CS-Inconel		0.250 / 1.000		---

Dissimilar

Pipe to Safe End  
1 inch HL SB-166 Pressure Tap SE to CS Nozzle weld and SS pipe weld. This weld is located on piping that branches off of "A" Hot Leg.  
(Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.)

Comments revised per ONS2-121:  
Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:  
Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.  
Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.  
Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.  
Procedure NDE 68, Acceptance Criteria is "no evidence of borated water leakage."  
This B15.210 item is to be examined each refueling outage.  
For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
02.B15.210.0002	2RC-278-70V Class 1 50	2RC-278 OM 1201-1469 OM 120-1472	NDE-68	VT-2	CS-Inconel		0.250 / 1.000		----

Dissimilar

Pipe to Safe End

1 inch HL SB-166 Pressure Tap SE to CS Nozzle weld and SS pipe weld. This weld is located on piping that branches off of "A" Hot Leg.

(Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.)

Comments revised per ONS2-121:

Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:

Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.

Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of borated water leakage."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.210.0003	2RC-277-50 Class 1 50	2RC-277 OM 1201-1469 OM 120-1472	NDE-68	VT-2	CS-Inconel		0.250 / 1.000		----

Dissimilar

Pipe to Safe End

1 inch HL SB-166 Pressure Tap SE to CS Nozzle weld and SS pipe weld. This weld is located on piping that branches off of 'B' Hot Leg.

(Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.)

Comments revised per ONS2-121:

Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:

Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.

Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of borated water leakage."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
02.B15.210.0004	2RC-277-71V Class 1 50	2RC-277 OM 1201-1469 OM 120-1472	NDE-68	VT-2	CS-Inconel		0.250 / 1.000		----

Dissimilar

Pipe to Safe End

1 inch HL SB-166 Pressure Tap SE to CS Nozzle weld and SS pipe weld. This weld is located on piping that branches off of 'B' Hot Leg.

(Examine the Nozzle to Safe-End weld and the Safe-End to Pipe weld.)

Comments revised per ONS2-121:

Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:

Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.

Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of borated water leakage."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
02.B15.210.0005	2RC-278-23 Class 1 50	2RC-278 OM 1201-1469 OM 120-1472	NDE-68	VT-2	CS-Inconel		0.250 / 1.000		----

Dissimilar

Pipe to Safe End

.075 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.) This weld is located on piping that branches off of "A" Hot Leg.

Comments revised per ONS2-121:

Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:

Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.

Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of boric acid corrosion."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.B15.210.0006	2RC-278-69 Class 1 50	2RC-278 OM 1201-1469 OM 120-1472	NDE-68	VT-2	CS-Inconel		0.250 / 1.000		----

Dissimilar

Pipe to Safe End

.075 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.) This weld is located on piping that branches off of 'A' Hot Leg.

Comments revised per ONS2-121:

Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:

Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.

Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of boric acid corrosion."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.210.0007	2RC-277-24 Class 1 50	2RC-277 OM 1201-1469 OM 120-1472	NDE-68	VT-2	CS-Inconel		0.250 / 1.000		----

Dissimilar

Pipe to Safe End

.075 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.) This weld is located on piping that branches off of 'B' Hot Leg.

Comments revised per ONS2-121:

Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:

Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.

Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is 'no evidence of borated water leakage.'

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.210.0008	2RC-277-70 Class 1 50	2RC-277 OM 1201-1469 OM 120-1472	NDE-68	VT-2	CS-Inconel		0.250 / 1.000		---

Dissimilar

Pipe to Safe End

.075 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.) This weld is located on piping that branches off of "B" Hot Leg.

Comments revised per ONS2-121:

Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:

Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.

Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of borated water leakage."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.210.0009	2-PHA-13 Class 1 50	ISI-OCN2-005 OM 1201-1469 OM 1201-1472	NDE-68	VT-2	CS-Inconel		2.875 / 9.000		----

Dissimilar

Pipe to Pipe  
RTE Mounting Boss SB-166 to 690 Drywell Weld on 2A Hotleg ( X-Axis)  
Hot Leg (Piece 7) to RTE Mounting Boss (piece 12).

Comments revised per ONS2-121:  
Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:  
Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.  
Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of boric acid corrosion."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.B15.210.0010	2-PHA-14 Class 1 50	ISI-OCN2-005 OM 1201-1469 OM 1201-1472	NDE-68	VT-2	CS-Inconel		2.875 / 9.000		----

Dissimilar

Pipe to Pipe  
RTE Mounting Boss SB-166 to 690 Drywell Weld on 2A Hotleg ( Y-Z Axis)  
Hot Leg (Piece 7) to RTE Mounting Boss (piece 12).

Comments revised per ONS2-121:  
Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:  
Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.  
Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of borated water leakage."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.210.0011	2-PHA-15 Class 1 50	ISI-OCN2-005 OM 1201-1469 OM 1201-1472	NDE-68	VT-2	CS-Inconel		2.875 / 9.000		

Dissimilar

Pipe to Pipe  
RTE Mounting Boss SB-166 to 690 Drywell Weld on 2A Hotleg ( Z-W Axis)  
Hot Leg (Piece 7) to RTE Mounting Boss (piece 12).

Comments revised per ONS2-121:  
Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:  
Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.  
Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of borated water leakage."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.210.0012	2-PHB-13 Class 1 50	ISI-OCN2-006 OM 1201-1469 OM 1201-1472	NDE-68	VT-2	CS-Inconel		2.875 / 9.000		---

Dissimilar

Pipe to Pipe  
RTE Mounting Boss SB-166 to 690 Drywell Weld on 2B Hotleg ( X Axis)  
Hot Leg (Piece 7) to RTE Mounting Boss (piece 12).

Comments revised per ONS2-121:  
Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:  
Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.  
Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of boric acid corrosion."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.210.0013	2-PHB-14 Class 1 50	ISI-OCN2-006 OM 1201-1469 OM 1201-1472	NDE-68	VT-2	CS-Inconel		2.875 / 9.000		---

Dissimilar

Pipe to Pipe  
RTE Mounting Boss SB-166 to 690 Drywell Weld on 2B Hotleg ( Y-Z Axis)  
Hot Leg (Piece 7) to RTE Mounting Boss (piece 12).

Comments revised per ONS2-121:  
Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:  
Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.  
Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of boroated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of boroated water leakage."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.210.0014	2-PHB-15 Class 1 50	ISI-OCN2-006 OM 1201-1469 OM 1201-1472	NDE-68	VT-2	CS-Inconel		2.875 / 9.000		----

Dissimilar

Pipe to Pipe  
RTE Mounting Boss SB-166 to 690 Drywell Weld on 2B Hotleg ( Z-W Axis)  
Hot Leg (Piece 7) to RTE Mounting Boss (piece 12).

Comments revised per ONS2-121:  
Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:  
Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.  
Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of borated water leakage."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.210.0015	2SGA-HL-CON-36 Class 1 50	OM-1201-0103.001 O-ISIN4-100A-2.1 OM-1201-1472.001	NDE-68	VT-2	CS-Inconel				

Dissimilar

RTE Hot Leg Thermal Well  
Steam Generator A Hot Leg Connection # 36 on drawing OM 1201-0103.001 and Mark # 10 on drawing OM-1201-1472.001.  
Abandoned RTE Thermal Well Connection.

Comments revised per ONS2-121:  
Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:  
Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.  
Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of boric acid corrosion."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.B15.210.0016	2SGB-HL-CON-27 Class 1 50	OM-1201-0103.001 O-ISIN4-100A-2.1 OM-1201-1472.001	NDE-68	VT-2	CS-Inconel				---

Dissimilar

RTE Hot Leg Thermal Well  
Steam Generator B Hot Leg Connection # 27 on drawing OM 1201-0103.001 and Mark # 10 on drawing OM-1201-1472.001  
Abandoned RTE Thermal Well Connection

Comments revised per ONS2-121:  
Begining with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector per the requirements of ASME Code Case N-722-1. These examinations shall be performed every refueling outage. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:  
Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.  
Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of borated water leakage."

This B15.210 item is to be examined each refueling outage.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cat Blocks	Component ID 2
<i>Category Aug</i>									
O2.B15.215.0013	2-PDB2-11 Class 1 50	ISI-OCN2-014 B&W146629E O-ISIN4-100A-2.1	NDE-70	VT-2	SS-CS		0.750 / 3.500		----

Dissimilar

Nozzle to Safe End

2B2 HPI Nozzle Pc.46 to Safe End Pc.47.

Comments revised per ONS2-128: Since it was determined that scheduled UT exam for CC N-770-1 could be rescheduled to 1EOC28 and 1EOC31(both in 5th interval) that a visual for CC N-722-1 would be needed to satisfy 4th interval requirements. Reference PIP O-13-8562.

Comments revised per ONS2-121:

Beginning with 2EOC26, per Note 5 of Table 1 of ASME Code Case N-722-1 and Note 3 of ASME Code Case N-770-1, the volumetric examinations shall be acceptable in lieu of the visual examination. The volumetric examinations performed for the High Pressure Injection (HPI) nozzles for the thermal fatigue program (G2.1 items) also meets the volumetric examination requirements for ASME Code Case N-770-1. Therefore, no visual examinations are required to be performed for ASME Code Cases N-722-1 and N-770-1 because the volumetric examination meets the intent of the once per interval visual examination requirement. The visual examinations for the High Pressure Injection (HPI) nozzles do not have to be scheduled and shall be considered an inactive examination, since it also receives a volumetric examination.

Comments below are for examinations prior to 2EOC26:

Per the requirements of 10 CFR 50.55a (g) (6) (ii) (E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.

Bare Metal Visual Inspection by VT-2 qualified inspector per the requirements of applicable item numbers listed in Table 1 of Code Case N-722.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of borated water leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure NDE 68, Acceptance Criteria is "no evidence of borated water leakage."

This item is to be examined once per interval.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i> O2.B15.80.0001	2-RPV-BMI-NOZZLES Class 1 50	O-ISIN4-100A-2.1	NDE-69	VT-2	CS/Alloy 690		0.000 / 0.000		----

Dissimilar

**RPV Bottom Head BMI Nozzles**

Comments revised per ONS2-121:

Beginning with 2EOC26, a bare metal visual examination by a qualified VT-2 inspector shall be performed on the BMI Nozzles every other outage per the requirements of ASME Code Case N-722-1. The bare metal visual examination shall include an inspection of the Bottom Head and Alloy 600 Transition Weld between the Alloy 600 Tube and the Stainless Steel Tube. Any questions concerning this exam shall be directed to the NGO Corporate Programs Group.

Comments below are for examinations prior to 2EOC26:

Per the requirements of 10 CFR 50.55a(g)(6)(ii)(E), all licensees of PWRs shall augment their ISI program implementing ASME Code Case N-722 subject to the conditions specified in paragraphs (g) (6) (ii) (E) 2 through 4.

Bare Metal Visual Inspection by VT-2 qualified inspector of the BMI Nozzles per the requirements of Code Case N-722. (Item Number B15.80).

B15.80 items, bare metal visual examinations are on the reactor vessel bottom head, bottom mounted instrument nozzles and alloy 600 transition weld between the alloy 600 tube and the stainless steel tube.

B15.80 items are to be examined every other refueling outage from the start date.

Personnel performing the visual examination shall be qualified as VT-2 visual examiners and shall have completed a minimum of four hours of additional training in detection of boric acid leakage from alloy 600/82/182 components and the resulting boric acid corrosion of adjacent ferritic steel components.

Procedure changed from NDE-68 to NDE-69 without new QA-513J issued on ONS2-116.

For additional information, contact Chris Cruz from the Materials and NDE Services Section, Nuclear Technical Services Division.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i> O2.B4.40.0001	2-RPV-HEAD-PEN Class 1 50	OM-201-2271 O-ISIN4-100A-2.1	54-ISI-603	UT	CS/Alloy 690		0.000 / 0.000		---

Dissimilar

**Nozzle to Shell**

As specified in ASME Code Case N-729-1, subject to the conditions specified in 10CFR50.55a (g) (6) (ii) (D) (2) through (6), volumetric and / or surface examination of pressure-retaining partial-penetration weld nozzles. For coverage requirements see Figure 2 of Code Case N-729-1. A demonstrated volumetric or surface leak path assessment through all J-groove welds shall be performed.

A vendor will have to be contracted to perform these exams. UT procedures shall be qualified in accordance with 10CFR50.55a (g) (6) (ii) (D) (4). Procedures shall be provided by the vendor and are subject to Duke's review and approval.

Acceptance Criteria specified in ASME Code Case N-729-1 subject to the conditions in 10CFR50.55a (g) (6) (ii) (D) (2) through (6). On 12-18-2008 Rachel Doss submitted QA-513J form ER-ONS-09-01 to schedule these augmented exams. These exams will replace the exams required by NRC-Order EA-03-009 (Summary Number O2.G11.1.0001).

NRC Order EA-03-009 requires ultrasonic testing of each RPV head penetration nozzle. The area to be examined includes the nozzle base material from two inches above the J-groove weld and continues to the bottom of the nozzle. There should be an assessment by ultrasonic testing to determine if leakage has occurred into (or a leak path exist in) the interference fit zone. For additional information, contact J.M. Shuping of the Metallurgy, Lab Services Group. These exams were requested on QA-513J form ER-ONS-04-01.

A vendor will have to be contracted to perform these exams. Procedures shall be provided by the vendor and are subject to Duke's review and approval.

On 4-3-2008 Rachel Doss submitted QA-513J form ER-ONS-08-04 that replaced the requirements of NRC Order EA-03-009 (requested in QA-513J form ER-ONS-04-01) with the requirements specified in Code Case N-729-1. As a result of the request on QA-513J form ER-ONS-08-04, the examination schedule was changed."

On 12-18-2008, Rachel Doss submitted a QA-513J form (ER-ONS-09-01) to schedule UT exams per Code Case N-729-1. These items (O2.B4.40.0001) will replace O2.G11.1.0001 exams. See Plan addenda ONS2.076 and ONS-033.

**Comments added per ONS2-122:**

If the required coverage cannot be obtained by UT alone, a surface inspection (PT/ECT) may be necessary to achieve the required coverage. (Reference PIP G-12-1476 and QA-513J ER-ONS-09-01 Revision 1)

Material, Thickness / NPS could not be validated, if this information is needed contact Rachel Doss Corporate Programs Engineer.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.G12.2.0001	2-RPV-WR53 Class 1 50	ISI-OCN2-001 OM-1201-1528	54-ISI-823	UT	SS-CS		1.688 / 15.625	8034675	G12.002.001

Circumferential  
Terminal End  
Dissimilar

Nozzle to Safe End

RV A-Side Core Flood Nozzle Pc. 17 to Safe End Pc. 89. W-Axis.

Comments revised per ONS2-121:

Beginning with 2EOC26, the Core Flood Nozzles are within scope of the 10-year Reactor Vessel (RV) ISI scheduled during the fall 2013 2EOC26 Outage. The volumetric exams performed during the 10 year RV ISI (i.e. B5.10 items) also meets the requirements for Inspection Item B of Table 1 of ASME Code Case N-770-1. The Core Flood Nozzles were added to the 2EOC26 Outage to reset the inspection frequency (per ONS2-119). These items shall be examined every second inspection period not to exceed 7 years and shall be categorized as Inspection Item B per Table 1 of ASME Code Case N-770-1. The next volumetric examination schedule for the nozzles (G12.2 items) should occur during the fall 2016 2EOC29 Outage but will be reevaluated during the 5th interval.

Procedure to be used will be determined after a Vendor has been selected to perform the Automated UT examination.

Comments below are for examinations prior to 2EOC-26

Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Examination schedule cannot exceed 6 years between examinations.

Although Exam was credited in 2EOC24 it was decided to reexamine in 2EOC26 to align with 10 year vessel exam and to reset the G12.2 exam.(See ONS2-106 and 119)

Comments added per ONS2-124:

Thickness / NPS validated as shown on Isometric. If actual Thickness / NPS is needed a field measurement will be required.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.G12.2.0002	2-RPV-WR53A Class 1 50	ISI-OCN2-001 OM-1201-1528	54-ISI-823	UT	SS-CS		1.688 / 15.625	8034675	G12.002.002

Circumferential  
Terminal End  
Dissimilar

**Nozzle to Safe End**

RV B-Side Core Flood Nozzle Pc. 17 to Safe End Pc. 89. Y-Axis.

Comments revised per ONS2-121:

Beginning with 2EOC26, the Core Flood Nozzles are within scope of the 10-year Reactor Vessel (RV) ISI scheduled during the fall 2013 2EOC26 Outage. The volumetric exams performed during the 10 year RV ISI (i.e. 85.10 items) also meets the requirements for Inspection Item B of Table 1 of ASME Code Case N-770-1. The Core Flood Nozzles were added to the 2EOC26 Outage to reset the inspection frequency (per ONS2-119). These items shall be examined every second inspection period not to exceed 7 years and shall be categorized as Inspection Item B per Table 1 of ASME Code Case N-770-1. The next volumetric examination schedule for the nozzles (G12.2 items) should occur during the fall 2016 2EOC29 Outage but will be reevaluated during the 5th interval.

Procedure to be used will be determined after a Vendor has been selected to perform the Automated UT examination.

Comments below are for examinations prior to 2EOC-26

Augmented Inspection Per MRP-139. Contact Jody Shuping for additional information on this examination. Examination schedule cannot exceed 6 years between examinations.

Although Exam was credited in 2EOC24 it was decided to reexamine in 2EOC26 to align with 10 year vessel exam and to reset the G12.2 exam.(See ONS2-106 and 119)

Comments added per ONS2-124:

Thickness / NPS validated as shown on Isometric. If actual NPS is needed a field measurement will be required.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.G2.1.0001	2-PDB1-46 Class 1 50	ISI-OCN2-013 OM-1201-0969 O-ISIN4-100A-2.1	NDE-680	UT	CS		2.250 / NA	40350	G02.001.005C
<p>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.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric for Piece 46 at Piece 44. If actual thickness is needed a field measurement will be required.</p>									
O2.G2.1.0002	2-PDA2-46 Class 1 50	ISI-OCN2-012 OM-1201-0969 O-ISIN4-100A-2.1	NDE-680	UT	CS		2.250 / NA	40350	G02.001.005B
<p>2A2 Make-Up 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.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric for Piece 46 at Piece 44. If actual thickness is needed a field measurement will be required.</p>									
O2.G2.1.0003	2-PDA1-46 Class 1 50	ISI-OCN2-011 OM-1201-0969 O-ISIN4-100A-2.1	NDE-680	UT	CS		2.250 / NA	40350	G02.001.005A
<p>2A1 Make-Up 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.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric for Piece 46 at Piece 44. If actual thickness is needed a field measurement will be required.</p>									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i> O2.G2.1.0004	2-PDB2-46 Class 1 50	ISI-OCN2-014 OM-1201-0969 O-ISIN4-100A-2.1	NDE-680	UT	CS		2.250 / NA	40350	G02.001.005D
<p>2B2 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.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric for Piece 46 at Piece 44. If actual thickness is needed a field measurement will be required.</p>									
O2.G2.1.0005	2RC-204-29 Class 1 50	ISI-OCN2-011 OM-1201-0969 2RC-204	PDI-UT-10	UT	SS-CS		0.718 / 3.500	40416	G02.001.006A

Circumferential  
Dissimilar

Nozzle to Safe End  
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.  
Comments added per ONS2-124:  
Thickness / NPS validated as shown on Isometric. If actual Thickness / NPS is needed a field measurement will be required.  
Comments added per ONS2-127:  
This weld was previously listed and examined as 2-PDA1-11. Component ID changed to 2RC-204-29 since weld was cut out and replaced.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
O2.G2.1.0006	2RC-203-22 Class 1 50	ISI-OCN2-012 OM-1201-0969 2RC-203	PDI-UT-10	UT	SS-CS		0.718 / 3.500	40416	G02.001.006B

*Category Aug*

Circumferential  
Dissimilar

Nozzle to Safe End  
2A2 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 22 on rev . 10 of iso 2RC-203.

Comments added per ONS2-124:  
Thickness / NPS validated as shown on Isometric. If actual Thickness / NPS is needed a field measurement will be required.

Comments added per ONS2-127:  
This weld was previously listed and examined as 2-PDA2-11. Component ID changed to 2RC-203-22 since weld was cut out and replaced.

O2.G2.1.0007	2-PDB2-11 Class 1 50	ISI-OCN2-014 OM-1201-0969 O-ISIN4-100A-2.1	PDI-UT-10	UT	SS-CS		0.750 / 3.500	40416	G02.001.006D
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Circumferential  
Dissimilar

Nozzle to Safe End  
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.

Comments added per ONS2-124:  
Thickness / NPS validated as shown on Isometric. If actual Thickness / NPS is needed a field measurement will be required.



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.G2.1.0008	2RC-202-16 Class 1 50	ISI-OCN2-013 OM-1201-0969 2RC-202	PDI-UT-10	UT	SS-CS		0.718 / 3.500	40416	G02.001.006C
<p>Circumferential Dissimilar</p> <p>Nozzle to Safe End 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.</p> <p>Comments added per ONS2-124: Thickness / NPS validated as shown on Isometric. If actual Thickness / NPS is needed a field measurement will be required.</p> <p>Comments added per ONS2-127: This weld was previously listed and examined as 2-PDB1-11. Component ID changed to 2RC-202-16 since weld was cut out and replaced.</p>									
O2.G2.1.0009	2-PDB1-47 Class 1 50	ISI-OCN2-013 OM-1201-0969 2RC-202	PDI-UT-10	UT	SS		0.718 / 3.500	40416	G02.001.007C

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.

Comments added per ONS2-124:  
Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.G2.1.0010	2-PDB2-47 Class 1 50	ISI-OCN2-014 OM-1201-0969 O-ISIN4-100A-2.1	PDI-UT-10	UT	SS		0.750 / 3.500	40416	G02.001.007D
<p>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.</p> <p>Comments added per ONS2-124: Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.</p> <p>Comments added per ONS2-127: NPS shown is listed on ISI-OCN2-014 as diameter.</p>									
O2.G2.1.0011	2-PDA1-47 Class 1 50	ISI-OCN2-011 OM-1201-0969 2RC-204	PDI-UT-10	UT	SS		0.718 / 3.500	40416	G02.001.007A
<p>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.</p> <p>Comments added per ONS2-124: Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.</p>									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i> O2.G2.1.0012	2-PDA2-47 Class 1 50	ISI-OCN2-012 OM-1201-0969 2RC-203	PDI-UT-10	UT	SS		0.718 / 3.500	40416	G02.001.007B

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.

Comments added per ONS2-124:  
Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.

O2.G2.1.0013	2RC-204-37 Class 1 50	2RC-204 OM-1201-0969 O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G02.001.008A
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Circumferential

Safe End to Pipe  
Make-Up Nozzle 2A1. Perform UT on weld 2RC-204-37 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. Weld 2RC-204-28 was cut out and replaced with weld 2RC-204-37 during EOC-23. 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(O2.G4.1.0024).

Comments added per ONS2-124:  
Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.G2.1.0014	2RC-202-17 Class 1 50	2RC-202 OM-1201-0969 O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G02.001.008C
Circumferential									
<p>Safe End to Pipe                      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.                      Inspection performed for this G02 item number will satisfy the requirements for G04.001.001.</p> <p>Comments added per ONS2-124:                      Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.</p>									
O2.G2.1.0015	2RC-203-32 Class 1 50	2RC-203 OM-1201-0969 O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G02.001.008B
Circumferential									
<p>Safe End to Pipe                      Make-Up Nozzle 2A2. Perform UT on weld 2RC-203-32 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.                      Weld 2RC-203-21 was cut out and replaced with weld 2RC-203-32 during EOC-23.                      Note: The inspection performed for this G02 item number will satisfy the requirements for G04.001.027(Summary Number                      O2.G4.1.0022).</p> <p>Comments added per ONS2-124:                      Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.</p>									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.G2.1.0016	2RC-205-1 Class 1 50	2RC-205 OM-1201-0969 O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G02.001.008D
Circumferential			<p>Safe End to Pipe 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.</p> <p>Comments added per ONS2-124: Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.</p>						
O2.G2.1.0017	2RC-203-3 Class 1 50	2RC-203 OM-1201-0969 O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G02.001.010B
Circumferential			<p>Pipe to Valve 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.</p>						
O2.G2.1.0018	2RC-202-19 Class 1 50	2RC-202 OM-1201-0969 O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G02.001.010C
Circumferential			<p>Pipe to Valve 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.</p>						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.G2.1.0019	2RC-204-20 Class 1 50	2RC-204 OM-1201-0969 O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G02.001.010A
Circumferential									
Pipe to Valve 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.									
O2.G2.1.0020	2RC-205-3 Class 1 50	2RC-205 OM-1201-0969 O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G02.001.010D
Circumferential									
Pipe to Valve 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.									
O2.G2.1.0021	2A2 THERM-SLEEVE Class 1 50	ISI OCN2-012 OM-1201-0969 O-ISIN4-100A-2.1	NDE-105	RT	SS		0.750 / NA		G02.001.011B
Circumferential									
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.  Comments added per ONS2-124: Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.G2.1.0022	2B1 THERM-SLEEVE Class 1 50	ISI OCN2-013 OM-1201-0969 O-ISIN4-100A-2.1	NDE-105	RT	SS		0.750 / NA		G02.001.011C
Circumferential									
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.									
Comments added per ONS2-124: Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.									
O2.G2.1.0023	2A1 THERM-SLEEVE Class 1 50	ISI OCN2-011 OM-1201-0969 O-ISIN4-100A-2.1	NDE-105	RT	SS		0.750 / NA		G02.001.011A
Circumferential									
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.									
Comments added per ONS2-124: Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.G2.1.0024	2B2 THERM-SLEEVE Class 1 50	ISI OCN2-014 OM-1201-0969 O-ISIN4-100A-2.1	NDE-105	RT	SS		0.750 / NA		G02.001.011D
Circumferential									
<p>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.</p> <p>Comments added per ONS2-124: Thickness validated as shown on Isometric. If actual thickness is needed a field measurement will be required.</p>									
O2.G4.1.0001	2RC-202-17 Class 1 51A	2RC-202 O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.001
Circumferential									
<p>Pipe to Safe End Inspect 100% of weld &amp; 1" of base material (axial &amp; 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.</p>									
O2.G4.1.0002	2RC-202-19 Class 1 51A	2RC-202 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.003
Circumferential									
<p>Pipe to Valve 2HP-153 Inspect 100% of weld &amp; 1" of base material (axial &amp; 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.</p>									



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.G4.1.0003	2RC-205-1 Class 1 50	2RC-205 O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.004
	Circumferential		Pipe to Safe-End 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.						
O2.G4.1.0004	2RC-205-3 Class 1 51A	2RC-205 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.006
	Circumferential		Pipe to Valve 2HP-152 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.						
O2.G4.1.0005	2HP-218-18 Class 1 51A	2HP-218 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.007
	Circumferential		Elbow to Pipe 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. Hanger 51A-0-1479A-H13B needs to be moved in order to perform the examination for O2.G4.1.0005.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cat Blocks	Component ID 2
<b>Category Aug</b>									
O2.G4.1.0006	2HP-214-13 Class 1 51A	2HP-214 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.010
	Circumferential		Pipe to Elbow 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.						
O2.G4.1.0007	2HP-214-15 Class 1 51A	2HP-214 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.011
	Circumferential		Pipe to Valve 2HP-488 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.						
O2.G4.1.0012	2HP-214-14 Class 1 51A	2HP-214 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.017
	Circumferential		Elbow to Pipe 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.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.G4.1.0013	2HP-216-7 Class 1 51A	2HP-216 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.018
	Circumferential								
	Pipe to Elbow 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.								
O2.G4.1.0014	2HP-216-8 Class 1 51A	2HP-216 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.019
	Circumferential								
	Elbow to Pipe 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.								
O2.G4.1.0015	2HP-216-9 Class 1 51A	2HP-216 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.020
	Circumferential								
	Pipe to Valve 2HP-486 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.								

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.G4.1.0016	2HP-217-10 Class 1 51A	2HP-217 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.021
Circumferential									
Pipe to Elbow 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.									
O2.G4.1.0017	2HP-217-11 Class 1 51A	2HP-217 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.022
Circumferential									
Elbow to Pipe 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.									
O2.G4.1.0018	2HP-217-12 Class 1 51A	2HP-217 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.023
Circumferential									
Pipe to Valve 2HP-487 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.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category Aug</i>									
O2.G4.1.0019	2HP-218-20 Class 1 51A	2HP-218 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.024
	Circumferential		Pipe to Elbow 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.						
O2.G4.1.0020	2HP-218-21 Class 1 51A	2HP-218 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.025
	Circumferential		Elbow to Pipe 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.						
O2.G4.1.0021	2HP-218-22 Class 1 51A	2HP-218 O-ISIN4-101A-2.4	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.026
	Circumferential		Pipe to Valve 2HP-489 Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, General Requirements.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.G4.1.0022	2RC-203-32 Class 1 50	2RC-203 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.027
Circumferential	<p>Safe End to Pipe                      Inspect 100% of weld &amp; 1" of base material (axial &amp; 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.                      Weld 2RC-203-21 was cut out and replaced with weld 2RC-203-32 during EOC-23.                      Note: The inspection performed for G02.001.008B(O2.G2.1.0015) will satisfy the requirements for this G4 (O2.G4.1.0022) inspection.</p>								
O2.G4.1.0023	2RC-203-3 Class 1 50	2RC-203 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.028
Circumferential	<p>Pipe to Valve 2HP-126                      Inspect 100% of weld &amp; 1" of base material (axial &amp; circumferential). Reference Section 7 of the ISI Plan, General Requirements.                      Note: The inspection performed for G02.001.010B will satisfy the requirements for this G04 inspection.</p>								
O2.G4.1.0024	2RC-204-37 Class 1 50	2RC-204 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.029
Circumferential	<p>Safe End to Pipe                      Inspect 100% of weld &amp; 1" of base material (axial &amp; circumferential). Reference Section 7 of the ISI Plan, General Requirements.                      Weld 2RC-204-18 was cut out and replaced with weld 2RC-204-28 during EOC-20.                      Weld 2RC-204-28 was cut out and replaced with weld 2RC-204-37 during EOC-23 per Revision 15 of Iso 2RC-204.                      Note: The inspection performed for G02.001.008A(Summary Number O2.G2.1.0013) will satisfy the requirements for this G4 inspection.</p>								

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category Aug</b>									
O2.G4.1.0025	2RC-204-20 Class 1 50	2RC-204 B&W146629E O-ISIN4-100A-2.1	NDE-995	UT	SS		0.375 / 2.500	Component 40378	G04.001.030
Circumferential									
Pipe to Valve 2HP-127 Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, General Requirements. 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.									

**Category B-A**

O2.B1.11.0001	2-RPV-WR1A Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-801	UT	CS		9.500 / 170.630	95001	B01.011.001
Circumferential									
Shell to Shell Reactor Vessel Upper Shell Forging Pc. 87 to Intermediate Shell Forging Pc. 165.  A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.  Comments added per ONS2-124: Thickness / NPS validated as shown on Isometric listed. If actual thickness is needed a field measurement will be required.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 8 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-A</b>									
O2.B1.11.0002	2-RPV-WR1 Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-801	UT	CS		9.500 / 170.630	95001	B01.011.002
Circumferential									
Shell to Shell Reactor Vessel Intermediate Shell Forging Pc. 165 to Lower Shell Forging Pc. 166.									
A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.									
Comments added per ONS2-124: Thickness / NPS validated as shown on Isometric listed. If actual thickness is needed a field measurement will be required.									
O2.B1.11.0003	2-RPV-WR18 Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-801	UT	CS		12.000 / 167.630	95001	B01.011.003
Circumferential									
Shell to Shell Reactor Vessel Upper Shell Forging Pc. 86 to Upper Shell Forging Pc. 87.									
A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.									
Comments added per ONS2-124: Thickness / NPS validated as shown on Isometric listed. If actual thickness is needed a field measurement will be required.									



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-A</b>									
O2.B1.11.0004	2-RPV-WR34 Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-801	UT	CS		5.500 / 170.250	95001	B01.011.004

Circumferential

Transition Piece to Shell  
Reactor Vessel Transition Piece Pc. 36 to Lower Shell Forging Pc. 166.

A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:  
Thickness / NPS validated as shown on Isometric listed. If actual thickness is needed a field measurement will be required.

O2.B1.21.0001	2-RPV-WR35 Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-801	UT	CS		5.375 / 143.000	95001	B01.021.002
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Circumferential

Transition Piece to Head  
Reactor Vessel Transition Piece Pc. 36 to Lower Head Pc. 6.

A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:  
Thickness / NPS validated as shown on Isometric listed. If actual thickness is needed a field measurement will be required.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-A</b>									
O2.B1.30.0001	2-RPV-WR19 Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-001 OM-1201-454	54-ISI-801	UT	CS		12.000 / 167.630	95001	B01.030.001, B01.030.001A

Circumferential

Shell to Flange

Reactor Vessel Upper Shell Forging Pc. 86 to Flange Pc. 7. (B01.030.001) Inspect from Vessel ID.(automated scan) -- (B01.030.001A) Inspect from Flange Surface. (manual scan)

For the examination performed during the third period, a vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:

Thickness / NPS validated as shown on Isometric listed. If actual thickness is needed a field measurement will be required.

**Category B-B**

O2.B2.51.0001	2-LDCB-OUT-WJ35V Class 1 51A	O-ISIN4-101A-2.1 1-N37804-2 OM-201-3276	NDE-3630	UT	SS		0.875 / 8.625	40411	B02.051.001
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Circumferential

Head to Head

Letdown Cooler 2B Outlet Channel Body Pc. 3 to Cap Pc. 15.

Component ID was changed from 2-LDCB-OUT-V6 to 2-LDCB-OUT-WJ35V per Isometric 1-N37804-2 Revision 0.

Comments added per ONS2-124:

Thickness validated as shown on vendor drawing listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as a reference dimension on vendor drawing listed in plan.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-B</b>									
O2.B2.51.0002	2-LDCB-IN-WJ32V Class 1 51A	O-ISIN4-101A-2.1 1-N37804-2 OM-201-3276	NDE-3630	UT	SS		0.875 / 8.625	40411	B02.051.002

Circumferential

Head to Head  
Letdown Cooler 2B Inlet Channel Body Pc. 3 to Cap Pc. 15.  
Component ID was changed from 2-LDCB-IN-V5 to 2-LDCB-IN-WJ32V per Isometric 1-N37804-2 Revision 0.

Comments added per ONS2-124:  
Thickness validated as shown on vendor drawing listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as a reference dimension on vendor drawing listed in plan.

O2.B2.60.0001	2-LDCB-IN-WJ31V Class 1 51A	O-ISIN4-101A-2.1 1-N37804-2 OM-201-3276	NDE-3630	UT	SS		0.875 / 8.625	40411	B02.060.001
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Circumferential

Tubesheet to Head  
Letdown Cooler 2B Inlet Tubesheet Pc. 2 to Channel Body Pc. 3.  
Component ID was changed from 2-LDCB-IN-V3 to 2-LDCB-IN-WJ31V per Isometric 1-N37804-2 Revision 0.

Comments added per ONS2-124:  
Thickness validated as shown on vendor drawing listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as a reference dimension on vendor drawing listed in plan.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-B</b>									
O2.B2.60.0002	2-LDCB-OUT-WJ34V Class 1 51A	O-ISIN4-101A-2.1 1-N37804-2 OM-201-3276	NDE-3630	UT	SS		0.875 / 8.625	40411	B02.060.002
Circumferential									
<p>Tubesheet to Head Letdown Cooler 2B Outlet Tubesheet Pc. 2 to Channel Body Pc. 3. Component ID was changed from 2-LDCB-OUT-V4 to 2-LDCB-OUT-WJ34V per Isometric 1-N37804-2 Revision 0.</p> <p>Comments added per ONS2-124: Thickness validated as shown on vendor drawing listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as a reference dimension on vendor drawing listed in plan.</p>									

<b>Category B-D</b>									
O2.B3.100.0001	2-RPV-WR13 Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-364	VT-1	CS		12.000 / 60.000		B03.100.001
<p>Nozzle to Vessel RV Outlet Nozzle Pc. 19 to Upper Shell Forging Pc. 86 and Pc. 87. X Axis. (Inside Radius Section) An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1.</p> <p>A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.</p>									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-D</b>									
02.B3.100.0002	2-RPV-WR13A Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-364	VT-1	CS		12.000 / 60.000		B03.100.002
<p>Nozzle to Vessel RV Outlet Nozzle Pc. 19 to Upper Shell Forging Pc. 86 and Pc. 87. Z Axis. (Inside Radius Section) An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1.</p> <p>A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.</p>									
02.B3.100.0003	2-RPV-WR12 Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-364	VT-1	CS		12.000 / 48.000		B03.100.003
<p>Nozzle to Vessel RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. W-X Quadrant. (Inside Radius Section) An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1.</p> <p>A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.</p>									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-D</b>									
O2.B3.100.0004	2-RPV-WR12A Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-364	VT-1	CS		12.000 / 48.000		B03.100.004
<p>Nozzle to Vessel RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. X-Y Quadrant. (Inside Radius Section) An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1.</p> <p>A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.</p>									
O2.B3.100.0005	2-RPV-WR12B Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-364	VT-1	CS		12.000 / 48.000		B03.100.005
<p>Nozzle to Vessel RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. Y-Z Quadrant. (Inside Radius Section) An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1.</p> <p>A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.</p>									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category B-D</i>									
O2.B3.100.0006	2-RPV-WR12C Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-364	VT-1	CS		12.000 / 48.000		B03.100.006
<p>Nozzle to Vessel RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87, Z-W Quadrant. (Inside Radius Section) An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1.</p> <p>A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.</p>									
O2.B3.100.0007	2-RPV-WR54 Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-364	VT-1	CS		12.000 / 25.000		B03.100.007
<p>Nozzle to Vessel RV Core Flood Nozzle Pc. 17 to Upper Shell Forging Pc. 86, W Axis. (Inside Radius Section) An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1.</p> <p>A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.</p>									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-D</b>									
O2.B3.100.0008	2-RPV-WR54A Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-364	VT-1	CS		12.000 / 25.000		B03.100.008
			<p>Nozzle to Vessel RV Core Flood Nozzle Pc. 17 to Upper Shell Forging Pc. 86. Y Axis. (Inside Radius Section) An enhanced VT-1 (EVT-1) inspection will be performed in lieu of UT inspection per Code Case N-648-1.</p> <p>A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.</p> <p>Comments added per ONS2-124: Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.</p>						
O2.B3.110.0009	2-PZR-WP26-1 Class 1 50	ISI-OCN2-002 OM-1201-456 OM-1201-.1527	NDE-620	UT	CS		6.187 / NA	40338	B03.110.009
	Circumferential		<p>Nozzle to Shell Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4. W-X Quadrant. The thickness listed is shown on OM-1201-456, and the NPS will be NA, since dimension is not needed for nozzle to shell.</p>						
O2.B3.110.0009	2-PZR-WP26-1 Class 1 50	ISI-OCN2-002 OM-1201-456 OM-1201-.1527	NDE-640	UT	CS		6.187 / NA	40338	B03.110.009
	Circumferential		<p>Nozzle to Shell Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4. W-X Quadrant. The thickness listed is shown on OM-1201-456, and the NPS will be NA, since dimension is not needed for nozzle to shell.</p>						



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cat Blocks	Component ID 2
<b>Category B-D</b>									
O2.B3.110.0010	2-PZR-WP26-2 Class 1 50	ISI-OCN2-002 OM-1201-456 OM-1201.-1527	NDE-640	UT	CS		6.187 / NA	40338	B03.110.010
	Circumferential		Nozzle to Shell Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4. Y-Z Quadrant. The thickness listed is shown on OM-1201-456, and the NPS will be NA, since dimension is not needed for nozzle to shell.						
O2.B3.110.0010	2-PZR-WP26-2 Class 1 50	ISI-OCN2-002 OM-1201-456 OM-1201.-1527	NDE-820	UT	CS		6.187 / NA	40338	B03.110.010
	Circumferential		Nozzle to Shell Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4. Y-Z Quadrant. The thickness listed is shown on OM-1201-456, and the NPS will be NA, since dimension is not needed for nozzle to shell.						
O2.B3.110.0011	2-PZR-WP26-3 Class 1 50	ISI-OCN2-002 OM-1201-456 OM-1201.-1527	NDE-640	UT	CS		6.187 / NA	40338	B03.110.011
	Circumferential		Nozzle to Shell Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4. Z-W Quadrant, 47 Degrees off W-Axis. The thickness listed is shown on OM-1201-456, and the NPS will be NA, since dimension is not needed for nozzle to shell.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-D</b>									
O2.B3.110.0011	2-PZR-WP26-3								
	Class 1 50	ISI-OCN2-002 OM-1201-456 OM-1201.-1527	NDE-820	UT	CS		6.187 / NA	40338	B03.110.011

Circumferential

Nozzle to Shell  
Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4. Z-W Quadrant, 47 Degrees off W-Axis.  
The thickness listed is shown on OM-1201-456, and the NPS will be NA, since dimension is not needed for nozzle to shell.

O2.B3.120.0010	2-PZR-WP26-2								
	Class 1 50	ISI-OCN2-002 OM-1201-456 OM-1201.-1527	NDE-680	UT	CS		6.187 / NA	40338 50237E	B03.120.010

Nozzle to Shell  
Pressurizer Sampling Nozzle Pc. 30 to Heater Belt Shell Pc. 4. Y-Z Quadrant. (Inside Radius Section)  
The thickness listed is shown on OM-1201-456, and the NPS will be NA, since dimension is not needed for nozzle to shell.

O2.B3.150.0003	2-LDCB-IN-WJ33V								
	Class 1 51A	O-ISIN4-101A-2.1 1-N37804-2 OM-201-3276	NDE-3630	UT	SS		0.875 / NA	40411	B03.150.003

Circumferential

Nozzle to Channel Body  
Letdown Cooler 2B Tubeside Inlet Nozzle C Pc. 4 to Channel Body Pc. 3.  
NPS will be NA, since dimension is not needed for nozzle to shell.  
Component ID was changed from 2-LDCB-IN-V1 to 2-LDCB-IN-WJ33V per Isometric 1-N37804-2 Revision 0.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-D</b>									
O2.B3.150.0004	2-LDCB-OUT-WJ36V Class 1 51A	O-ISIN4-101A-2.1 1-N37804-2 OM-201-3276	NDE-3630	UT	SS		0.875 / NA	40411	B03.150.004
Circumferential									
			Nozzle to Channel Body Letdown Cooler 2B Tubeside Outlet Nozzle D Pc. 4 to Channel Body Pc. 3. NPS will be NA, since dimension is not needed for nozzle to shell. Component ID was changed from 2-LDCB-OUT-V2 to 2-LDCB-IN-WJ36V per Isometric 1-N37804-2 Revision 0.						
O2.B3.160.0003	2-LDCB-IN-WJ33V Class 1 51A	O-ISIN4-101A-2.1 1-N37804-2 OM-201-3276	NDE-680	UT	SS		0.875 / NA	40411	B03.160.003
			Nozzle to Channel Body Letdown Cooler 2B Tubeside Inlet Nozzle Pc. 5 to Channel Body Pc. 3. (Inside Radius Section) This item does not have to be examined per RFR 04-ON-015. Item has to be scheduled and counted in percentages. NPS will be NA, since dimension is not needed for nozzle to shell. Component ID was changed from 2-LDCB-IN-V1 to 2-LDCB-IN-WJ33V per Isometric 1-N37804-2 Revision 0.						
O2.B3.160.0004	2-LDCB-OUT-WJ36V Class 1 51A	O-ISIN4-101A-2.1 1-N37804-2 OM-201-3276	NDE-680	UT	SS		0.875 / NA	40411	B03.160.004
			Nozzle to Channel Body Letdown Cooler 2B Tubeside Outlet Nozzle D Pc. 4 to Channel Body Pc. 3. (Inside Radius Section) This item does not have to be examined per RFR 04-ON-015. Item has to be scheduled and counted in percentages. NPS will be NA, since dimension is not needed for nozzle to shell. Component ID was changed from 2-LDCB-OUT-V2 to 2-LDCB-IN-WJ36V per Isometric 1-N37804-2 Revision 0.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-D</b>									
O2.B3.90.0001	2-RPV-WR13 Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-001 OM-1201-454	54-ISI-855	UT	CS		12.000 / 60.000	95001	B03.090.001, B03.090.001A

Circumferential

Nozzle to Vessel  
RV Outlet Nozzle Pc. 19 to Upper Shell Forging Pc. 86 and Pc. 87. X Axis. (B03.090.001) UT from Vessel ID. -- (B03.090.001A)  
UT from Nozzle ID

A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:  
Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.

O2.B3.90.0002	2-RPV-WR13A Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-001 OM-1201-454	54-ISI-855	UT	CS		12.000 / 60.000	95001	B03.090.002, B03.090.002A
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Circumferential

Nozzle to Vessel  
RV Outlet Nozzle Pc. 19 to Upper Shell Forging Pc. 86 and Pc. 87. Z Axis. (B03.090.002) UT from Vessel ID. -- (B03.090.002A)  
UT from Nozzle ID.

A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:  
Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-D</b>									
O2.B3.90.0003	2-RPV-WR12 Class 1 50	O-ISIN4-100A-2.1	54-ISI-855	UT	CS		12.000 / 48.000	95001	B03.090.003, B03.090.003A
		ISI-OCN2-001 OM-1201-454							

Circumferential

Nozzle to Vessel  
RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. W-X Quadrant. (B03.090.003) UT from Vessel ID. --  
(B03.090.003A) UT from Nozzle ID.

A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:  
Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.

O2.B3.90.0004	2-RPV-WR12A Class 1 50	O-ISIN4-100A-2.1	54-ISI-855	UT	CS		12.000 / 48.000	95001	B03.090.004, B03.090.004A
		ISI-OCN2-001 OM-1201-454							

Circumferential

Nozzle to Vessel  
RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. X-Y Quadrant. (B03.090.004) UT from Vessel ID. --  
(B03.090.004A) UT from Nozzle ID.

A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:  
Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-D</b>									
O2.B3.90.0005	2-RPV-WR12B Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-001 OM-1201-454	54-ISI-855	UT	CS		12.000 / 48.000	95001	B03.090.005, B03.090.005A

Circumferential

Nozzle to Vessel

RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. Y-Z Quadrant. (B03.090.005) UT from Vessel ID. -- (B03.090.005A) UT from Nozzle ID.

A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:

Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.

O2.B3.90.0006	2-RPV-WR12C Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-001 OM-1201-454	54-ISI-855	UT	CS		12.000 / 48.000	95001	B03.090.006, B03.090.006A
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Circumferential

Nozzle to Vessel

RV Inlet Nozzle Pc. 18 to Upper Shell Forging Pc. 86 and Pc. 87. Z-W Quadrant. (B03.090.006) UT from Vessel ID. -- (B03.090.006A) UT from Nozzle ID.

A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:

Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-D</b>									
02.B3.90.0007	2-RPV-WR54 Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-855	UT	CS		12.000 / 25.000	95001	B03.090.007

Circumferential

Nozzle to Vessel

RV Core Flood Nozzle Pc. 17 to Upper Shell Forging Pc. 86. W Axis. UT from Vessel ID.

The Core Flood nozzle to shell welds are only examined from the Vessel ID. The flow restrictors in the nozzle bore do not allow access/examination from the Nozzle ID.

A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:

Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.

02.B3.90.0008	2-RPV-WR54A Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-454	54-ISI-855	UT	CS		12.000 / 25.000	95001	B03.090.008
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Circumferential

Nozzle to Vessel

RV Core Flood Nozzle Pc. 17 to Upper Shell Forging Pc. 86. Y Axis. UT from Vessel ID.

The Core Flood nozzle to shell welds are only examined from the Vessel ID. The flow restrictors in the nozzle bore do not allow access/examination from the Nozzle ID.

A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Comments added per ONS2-124:

Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-F</b>									
O2.B5.10.0001	2-RPV-WR53 Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-001 OM-1201-1528	54-ISI-823	UT	SS-CS		1.688 / 15.625	8034675	B05.010.001, B05.010.001A

Circumferential  
Terminal End  
Dissimilar

**Nozzle to Safe End**

RV A-Side Core Flood Nozzle Pc. 17 to Safe End Pc. 89. W-Axis. Procedures must be qualified through PDI. A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.

A UT performed in 2EOC-24 (contracted by Areva) for augmented exams (G12.2 items) also met the Code Requirements for B5.10 items of the 1998 Edition thru the 2000 Addenda of the Section XI Code. We will take credit for the UT exam in the 2EOC-24 outage.

Although Exam was credited in 2EOC24 it was decided to reexamine in 2EOC26 to align with 10 year vessel exam and to reset the G12.2 exam.(See ONS2-106 and 119)

**Comments added per ONS2-121:**

The Core Flood Nozzles are within scope of the 10-year Reactor Vessel (RV) ISI scheduled during the fall 2013 2EOC26 outage. The volumetric exams performed during the 10 year RV ISI also meets the requirements for ASME Code Case N-770-1(G12.2 0001 and G12.2.0002 items).

**Comments added per ONS2-124:**

Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category B-F</i>									
O2.B5.10.0002	2-RPV-WR53A Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-001 OM-1201-1528	54-ISI-823	UT	SS-CS		1.688 / 15.625	8034675	B05.010.002, B05.010.002A

Circumferential  
Terminal End  
Dissimilar

**Nozzle to Safe End**

RV B-Side Core Flood Nozzle Pc. 17 to Safe End Pc. 89. Y-Axis. Procedures must be qualified through PDI. A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.

A UT performed in 2EOC-24 (contracted by Areva) for augmented exams (G12.2 items) also met the Code Requirements for B5.10 items of the 1998 Edition thru the 2000 Addenda of the Section XI Code. We will take credit for the UT exam in the 2EOC-24 outage.

Although Exam was credited in 2EOC24 it was decided to reexamine in 2EOC26 to align with 10 year vessel exam and to reset the G12.2 exam.(See ONS2-106 and 119)

**Comments added per ONS2-121:**

The Core Flood Nozzles are within scope of the 10-year Reactor Vessel (RV) ISI scheduled during the fall 2013 2EOC26 outage. The volumetric exams performed during the 10 year RV ISI also meets the requirements for ASME Code Case N-770-1(G12.2 0001 and G12.2.0002 items).

**Comments added per ONS2-124:**

Thickness validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cat Blocks	Component ID 2
<b>Category B-G-1</b>									
02.B6.180.0001	2-RCP-2A1-FB Class 1 50	O-ISIN4-100A-2.1 OM-1201.D-0005	PDI-UT-5	UT	CS		4.000 / NA	7310-0083	B06.180.001
<p>Reactor Coolant Pump 2A1 Main Flange Studs Pc. 19. 20 Studs, Stud Length = 32.00". Inspect main flange bolting on one reactor coolant pump only.                      Drawing OM-1201.D-0005 shows diameter of stud holes as 4.000 OD. Length of bolts, and actual thickness could not be validated. If actual dimensions are needed, a field measurement will be required.</p>									
02.B6.180.0007	2-RCP-2B1-SEAL Class 1 50	O-ISIN4-100A-2.1 OM-1201.D-0057	PDI-UT-5	UT	CS		2.250 / NA	40359	B06.180.007
<p>Reactor Coolant Pump 2B1 Seal Gland Bolts. 8 Bolts, Bolt Length = 11.750".                      Inspect seal gland bolting on one reactor coolant pump only.                      Diameter of bolting verified by letter from Oconee Engineering. Bolt Length of 11.750 could not be validated. If actual dimension is needed, a field measurement will be required.</p>									
02.B6.200.0007	2-RCP-2B1-WASHER Class 1 50	OM-1201.D-0057 O-ISIN4-100A-2.1	NDE-62	VT-1	NA		0.000 / 0.000		B06.200.007
<p>Reactor Coolant Pump 2B1 Seal Gland Nuts and Washers. 8 nuts and washers. Inspect seal gland nuts and washers on one reactor coolant pump only.</p>									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-G-2</b>									
02.B7.20.0003	2-PZR-LHB-STUDS Class 1 50	B&W149775E OM 1201-858	NDE-62	VT-1	CS		2.000 / NA		B07.020.003
Pressurizer Lower Heater Bundle Studs Pc. 75 and Nuts. 16 Studs, Length = 19.312". Examine all studs and nuts.									
02.B7.30.0003	2-SGB-UMW-STUDS Class 1 50	OM-201.S-0001 OM-201.S-0170 OM-201.S-0171	NDE-62	VT-1	SS		2.000 / NA		B07.030.003
Steam Generator 2B Upper Head Manway Studs and Nuts. (16 Studs & Nuts) Examine all studs and nuts. Stud Length = 19.63 inches.									
02.B7.30.0004	2-SGB-LMW-STUDS Class 1 50	OM-201.S-0001 OM-201.S-0158 OM-201.S-0171	NDE-62	VT-1	SS		2.000 / NA		B07.030.004
Steam Generator 2B Lower Head Manway Studs and Nuts. (16 Studs & Nuts) Examine all studs and nuts. Stud Length = 19.63 inches.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-28)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-J</b>									
O2.B9.11.0019	2-PHA-1 Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-005 OM-1201-966	54-ISI-820	UT	CS		2.856 / 42.750	95001	B09.011.019, B09.011.019A
Circumferential Terminal End	<p>Nozzle to Pipe Reactor Vessel Outlet Nozzle to Steam Generator 2A Hot Leg. A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.</p> <p>Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.</p> <p>Comments added per ONS2-124: Thickness / NPS validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.</p>								
O2.B9.11.0021	2-PHB-1 Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-006 OM-1201-966	54-ISI-820	UT	CS		2.856 / 42.750	95001	B09.011.021, B09.011.021A
Circumferential Terminal End	<p>Nozzle to Pipe Reactor Vessel Outlet Nozzle to Steam Generator 2B Hot Leg. A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.</p> <p>Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.</p> <p>Comments added per ONS2-124: Thickness / NPS validated as shown on isometric listed. If actual thickness is needed a field measurement will be required. NPS listed is shown as the diameter on isometric listed in plan.</p>								

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category B-J</i>									
O2.B9.11.0032	2-PDA1-8 Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-011	54-ISI-820	UT	CS		2.333 / 33.500	95001	B09.011.032. B09.011.032A

Circumferential  
Terminal End

Nozzle to Pipe  
Reactor Vessel Inlet Nozzle to Pump 2A1 Discharge Piping Pc. 38.  
A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.

Comments added per ONS2-124:  
Thickness / NPS validated as shown on isometric listed. If actual thickness is needed a field measurement will be required.

O2.B9.11.0033	2-PDA2-8 Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-012	54-ISI-820	UT	CS		2.333 / 33.500	95001	B09.011.033. B09.011.033A
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Circumferential  
Terminal End

Nozzle to Pipe  
Reactor Vessel Inlet Nozzle to Pump 2A2 Discharge Piping Pc. 38.  
A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.

Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.

Comments added per ONS2-124:  
Thickness / NPS validated as shown on isometric listed. If actual thickness is needed a field measurement will be required.

This report includes all changes through addendum ONS2-131  
Oconee 2, 4th Interval, outage 6 (EOC-28)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-J</b>									
O2.B9.11.0034	2-PDB1-8 Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-013	54-ISI-820	UT	CS		2.333 / 33.500	95001	B09.011.034, B09.011.034A
	Circumferential Terminal End		<p>Nozzle to Pipe Reactor Vessel Inlet Nozzle to Pump 2B1 Discharge Piping Pc. 38. A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.</p> <p>Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.</p> <p>Comments added per ONS2-124: Thickness / NPS validated as shown on isometric listed. If actual thickness is needed a field measurement will be required.</p>						

O2.B9.11.0035	2-PDB2-8 Class 1 50	O-ISIN4-100A-2.1  ISI-OCN2-014	54-ISI-820	UT	CS		2.333 / 33.500	95001	B09.011.035, B09.011.035A
	Circumferential Terminal End		<p>Nozzle to Pipe Reactor Vessel Inlet Nozzle to Pump 2B2 Discharge Piping Pc. 38. A vendor that is PDI qualified for remote automated UT examinations will have to be contracted to perform this inspection.</p> <p>Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.</p> <p>Comments added per ONS2-124: Thickness / NPS validated as shown on isometric listed. If actual thickness is needed a field measurement will be required.</p>						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-J</b>									
02.B9.21.0005	2RC-203-22 Class 1 50	ISI-OCN2-012 OM-1201-0969 2RC-203	NDE-35	PT	SS-CS		0.718 / 3.500		B09.021.005
	Circumferential Stress Weld Dissimilar		Nozzle to Safe End Reactor Coolant Pump 2A2 Discharge Piping. Nozzle Pc. 46 to Safe End Pc. 47. This weld was cut out and welded back in EOC-20. The new weld is also listed as weld 22 on rev. 10 of iso 2RC-203.  Comments added per ONS2-127: This weld was previously listed and examined as 2-PDA2-11. Component ID changed to 2RC-203-22 since weld was cut out and replaced.						
02.B9.21.0026	2HP-496-37 Class 1 51A	2HP-496 O-ISIN4-101A-2.1	NDE-35	PT	SS		0.438 / 3.000		B09.021.103
	Circumferential Terminal End		Nozzle to Pipe Letdown Cooler 2A. Outlet Nozzle to Pipe. This weld was cut out and welded back to allow for the Letdown Cooler replaced on 11-11-2005.						
02.B9.21.0029	2HP-214-15 Class 1 51A	2HP-214 O-ISIN4-101A-2.4	NDE-35	PT	SS		0.375 / 2.500		B09.021.106
	Circumferential Stress Weld		Pipe to Valve 2HP-488						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-J</b>									
02.B9.21.0034	2RC-202-19 Class 1 51A	2RC-202 O-ISIN4-101A-2.4	NDE-35	PT	SS		0.375 / 2.500		B09.021.111
	Circumferential Stress Weld		Pipe to Valve 2HP-153 Weld 2RC-202-3 was cut out and replaced with weld 2RC-202-19 during EOC-20.						
02.B9.21.0035	2RC-202-4 Class 1 51A	2RC-202 O-ISIN4-101A-2.4	NDE-35	PT	SS		0.375 / 2.500		B09.021.112
	Circumferential Stress Weld		Valve 2HP-488 to Valve 2HP-153						
02.B9.21.0036	2RC-203-32 Class 1 51A	2RC-203 O-ISIN4-100A-2.1	NDE-35	PT	SS		0.375 / 2.500		B09.021.113
	Circumferential Stress Weld		Safe End to Pipe Inspect with Item Number G02.001.008B(Summary Number O2.G2.1.0015). Weld 2RC-203-2 was cut out and replaced with weld 2RC-203-21 during EOC-20. Weld 2RC-203-21 was cut out and replaced with weld 2RC-203-32 during EOC-23 per Revision 13 of Iso 2RC-203.						



This report includes all changes through addendum ONS2-131  
 Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-J</b>									
02.B9.21.0037	2RC-203-3 Class 1 51A	2RC-203 O-ISIN4-101A-2.4	NDE-35	PT	SS		0.375 / 2.500		B09.021.114
	Circumferential Stress Weld		Pipe to Valve 2HP-126						
02.B9.21.0060	2HP-214-10 Class 1 51A	2HP-214 O-ISIN4-101A-2.4	NDE-35	PT	SS		0.375 / 2.500		B09.021.137
	Circumferential		Elbow to Pipe This weld was listed previously as 2-51A-27-105A until iso 2-51A-27 (3) was redrawn.						
02.B9.21.0062	2HP-215-11 Class 1 51A	2HP-215 O-ISIN4-101A-2.4	NDE-35	PT	SS		0.375 / 2.500		B09.021.139
	Circumferential		Pipe to Elbow This weld was listed previously as 2-51A-27-88 until iso 2-51A-27 (3) was redrawn.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category B-J</i>									
O2.B9.21.0063	2HP-215-16 Class 1 51A	2HP-215 O-ISIN4-101A-2.4	NDE-35	PT	SS		0.375 / 2.500		B09.021.140

Circumferential

Elbow to Pipe  
This weld was listed previously as 2-51A-27-93 until iso 2-51A-27 (3) was redrawn.

O2.B9.21.0185	2-51A-145-44 Class 1 51A	O-ISIN4-101A-2.1 2-51A-145	NDE-35	PT	SS		0.438 / 3.000		B09.021.
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Circumferential

Elbow to Pipe  
Weld ID was changed from 2-51A-145-6 to 2-51A-145-44 per Isometric 2-51A-145 Revision 6.

O2.B9.21.0227	2HP-495-27 Class 1 51A	2HP-495 O-ISIN4-101A-2.1	NDE-35	PT	SS		0.438 / 3.000		----
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Terminal End

Nozzle to Elbow  
Letdown Cooler 2A. Inlet Nozzle to Elbow.  
This weld was listed previously as 2-51A-147-31 until it was cut out and rewelded as 2HP-495-27

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category B-J</i>									
O2.B9.21.0259	2-RC-266-47 Class 1 50	2-RC-266 O-ISIN4-100A-2.2 ISI-OCN2-016	NDE-35	PT	SS		0.281 / 1.500		----
Dissimilar									
Pipe to Reducer Pressurizer Spray Tank to Pressurizer.									
O2.B9.21.0266	2-RC-266-36 Class 1 50	2-RC-266 O-ISIN4-100A-2.2 ISI-OCN2-016	NDE-35	PT	SS		0.375 / 2.500		----
Dissimilar									
Pipe to Valve 2RC-210 Pressurizer Spray Tank to Pressurizer.									
O2.B9.40.0001	2RC-271-11G Class 1 50	2RC-271 O-ISIN4-100A-2.2	NDE-35	PT	SS		0.281 / 1.500		B09.040.001
Socket									
Tee to Reducing Insert This weld was listed previously as 2-50-129-11G until iso 2-50-129 was deleted and all welds were transferred to iso 2RC-271.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-J</b>									
O2.B9.40.0010	2RC-253-8 Class 1 50	2RC-253 O-ISIN4-100A-2.2	NDE-35	PT	SS		0.281 / 1.500		B09.040.010

Socket

Pipe to Elbow

**Category B-N-1**

O2.B13.10.0001	2-RPV-INT-SURFACE Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-1538	54-ISI-364	VT-3	SS		NA / NA		B13.010.001
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Reactor Vessel Interior. Areas to be examined shall include the spaces above and below the Reactor Core that are made accessible for examination by removal of components during normal refueling outages. Areas of examination for Category B-N-1 (Item Number B13.10) during normal refueling outages (in the first and second period) with the core barrel in place are as follows: Examine all of the reactor vessel flange surfaces, examine the reactor vessel interior surfaces from the flange down to the core support shield (with the Plenum removed, it is approximately ten inches from the flange surface down to the core support shield), and examine the hot leg nozzle (outlet nozzle) interior surfaces out to the hot leg nozzle to pipe weld (from the reactor vessel interior wall out to the hot leg nozzle to pipe weld is approximately 41 inches). These are the only areas on the interior of the reactor vessel that are accessible during normal refueling outages. If for some reason the core barrel is removed during a normal refueling outage (outages other than when the 10 year reactor vessel automated inspections are performed in the third period), no other interior surfaces are required to be examined other than those surfaces that are accessible with the core barrel in place.

For the examination performed during the third period, a vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.

A detailed list of items that are to be examined for this summary number are referenced in the Oconee Nuclear Station, Inservice Inspection Basis Document, Interval 4 (Rev.7), Section 13.0 (Appendix B). This document is located in NEDL, and can be found by searching for Doc Index Number OISI-0169.10-0040, Doc Type = Working DOC, and ERN # NG000BY2.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-N-2</b>									
O2.B13.50.0001	2RPV-INT-LUGS Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-671	54-ISI-364	VT-1	NA		NA / NA		B13.050.001

Reactor Vessel Core Guide Lugs. Interior attachments within the Bellline Region. Reference Framatome Procedure 54-ISI-364-00.

A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.

A detailed list of items that are to be examined for this summary number are referenced in the Oconee Nuclear Station, Inservice Inspection Basis Document, Interval 4 (Rev.7), Section 13.0 (Appendix B). This document is located in NEDL, and can be found by searching for Doc Index Number OISI-0169.10-0040, Doc Type = Working DOC, and ERN # NG000BY2.

O2.B13.60.0001	INCORE INSTR NOZ WELDS Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-1538	54-ISI-364	VT-3	CS-Inconel		NA / NA		----
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Reactor Vessel Instrument Nozzle to Lower Head Welds (52 Instrument Nozzle to Vessel Welds).  
Interior attachments beyond the bellline region.

A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.

A detailed list of items that are to be examined for this summary number are referenced in the Oconee Nuclear Station, Inservice Inspection Basis Document, Interval 4 (Rev.7), Section 13.0 (Appendix B). This document is located in NEDL, and can be found by searching for Doc Index Number OISI-0169.10-0040, Doc Type = Working DOC, and ERN # NG000BY2.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-N-2</b>									
O2.B13.60.0002	FLOW STABILIZERS Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 OM-1201-1538	54-ISI-364	VT-3			NA / NA		----

Reactor Vessel Flow Stabilizers (12 Flow Stabilizers).  
Interior attachments beyond the bellline region.

A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.

A detailed list of items that are to be examined for this summary number are referenced in the Oconee Nuclear Station, Inservice Inspection Basis Document, Interval 4 (Rev.7), Section 13.0 (Appendix B). This document is located in NEDL, and can be found by searching for Doc Index Number OISI-0169.10-0040, Doc Type = Working DOC, and ERN # NG000BY2.

<b>Category B-N-3</b>									
O2.B13.70.0001	2-RPV-INTERNALS Class 1 50	O-ISIN4-100A-2.1 ISI-OCN2-001 B&W152008E	54-ISI-364	VT-3	NA		NA / NA		B13.070.001

Reactor Vessel Core Support Structure. The structure shall be removed from the Reactor Vessel for examination. Reference Framatome Procedure 54-ISI-364-00.

A vendor that is qualified for remote automated Visual examinations (Enhanced VT-1 and VT-3) will have to be contracted to perform this inspection.

A detailed list of items that are to be examined for this summary number are referenced in the Oconee Nuclear Station, Inservice Inspection Basis Document, Interval 4 (Rev.7), Section 13.0 (Appendix B). This document is located in NEDL, and can be found by searching for Doc Index Number OISI-0169.10-0040, Doc Type = Working DOC, and ERN # NG000BY2.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-O</b>									
O2.B14.10.0013	2-RPV-CRD-67WH9 Class 1 50	OM-201.R-0106.001 OM-201-3161	NDE-35	PT	SS-Inconel		0.650 / NA		----
Dissimilar									
Housing Body to Adapter CRDM #67 Housing Body to Adapter. Thickness listed is reference dimension, since thickness dimension could not be validated using OM drawings listed. If actual dimension is needed, a field measurement will be required.									
O2.B14.10.0014	2-RPV-CRD-67W60 Class 1 50	OM-201-3160 OM-201-3161	NDE-35	PT	SS-CS		0.500 / NA		----
Base to Motor Tube CRDM #67 Base to Motor Tube. Thickness listed is reference dimension, since thickness dimension could not be validated using OM drawings listed. If actual dimension is needed, a field measurement will be required.									
O2.B14.10.0015	2-RPV-CRD-67 Class 1 50	OM-201-3160 OM-201-3161	NDE-35	PT	SS-CS		0.400 / NA		----
Motor Tube to Extension CRDM #67 Motor Tube to Extension. Thickness listed is reference dimension, since thickness dimension could not be validated using OM drawings listed. If actual dimension is needed, a field measurement will be required.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category B-O</b>									
O2.B14.10.0016	2-RPV-CRD-67W61 Class 1 50	OM-201-3160 OM-201-3161	NDE-35	PT	SS		0.380 / NA		----

Extension to Cap  
 CRDM #67 Extension to Cap.  
 Thickness listed is reference dimension, since thickness dimension could not be validated using OM drawings listed. If actual dimension is needed, a field measurement will be required.

**Category C-A**

O2.C1.10.0001	2-LPCB-SH-1 Class 2 53B	OM-201-0286 O-ISIN4-102A-2.2 OM 2201-277	NDE-68	VT-2	SS		0.750 / 48.000		C01.010.001
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Circumferential

Flange to Shell  
 Decay Heat Cooler 2B Flange to Shell. Was examined in third interval as C1.20 item.  
 For the fourth interval, Code Case N-706 was used for the examination of this weld. A VT-2 exam will be performed in lieu of the Volumetric exam. The decay heat cooler is inside of the Class 2 pressure test boundary and will have a VT-2 exam performed once a period.

There were 2 stipulations that had to be met before Code Case N-706 could be used and they are listed as the following:  
 1. The owner had to evaluate industry experience to determine and assure that that no thru wall leakage had occurred with the type of heat exchanger that they have in operation and wanting to use Code Case N-706 for. This evaluation requirement was met and documented on a letter dated July 17, 2008 from Jesse Link (Oconee Assistant Engineer) to Mark Fertisi (SXIP Engineer). This letter is filed with document control under file number OS-317 and record retention number 000252.  
 2. All welds that Code Case N-706 is to be applied to would have to have at least one volumetric examination performed on it. The exam could be either a construction code volumetric, a preservice or inservice exam. This requirement was met on two of the welds because Inservice Inspection had been performed in previous interval. There was also conformation for all 4 of the C1.10 welds from the Manufacturer (e-mail from vendor) that volumetric exams (reader sheets for RT were found but not the film) were performed on all tubeside butt welds. The manufacturer drawing also confirmed that RT was required for these C1.10 welds (tubeside butt welds).

If leakage is detected on either of the Decay Heat Removal Coolers (2A or 2B) during Pressure Testing and VT-2 examinations, the ISI NDE Plan manager for Oconee shall be notified of the leakage so that an evaluation can be performed to determine the continued use of Code Case N-706 for summary numbers O2.C1.10.0001.

Note: In outage 6 (EOC-26), the ISI Plan manager needs to get the results of the pressure test for all 3 periods in the fourth interval and put the results in the Inservice Inspection Report for Summary Number O2.C1.10.0001.



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-A</b>									
O2.C1.10.0002	2-LPCB-SH-2 Class 2 53B	OM-201-0286 O-ISIN4-102A-2.2 OM 2201-277	NDE-68	VT-2	SS		0.750 / 46.000		C01.010.002

Circumferential

Shell to Flange

Decay Heat Cooler 2B Stainless Steel Shell to Tubesheet Flange. Rescheduled to outage 6 as a result of PIP O-06-4249. Reference Code Case N-624. Was examined in third interval as C1.30 item.

For the fourth interval, Code Case N-706 was used for the examination of this weld. A VT-2 exam will be performed in lieu of the Volumetric exam. The decay heat cooler is inside of the Class 2 pressure test boundary and will have a VT-2 exam performed once a period.

There were 2 stipulations that had to be met before Code Case N-706 could be used and they are listed as the following:

1. The owner had to evaluate industry experience to determine and assure that that no thru wall leakage had occurred with the type of heat exchanger that they have in operation and wanting to use Code Case N-706 for. This evaluation requirement was met and documented on a letter dated July 17, 2008 from Jesse Link (Oconee Assistant Engineer) to Mark Fertisi (SXIP Engineer). This letter is filed with document control under file number OS-317 and record retention number 000252.
2. All welds that Code Case N-706 is to be applied to would have to have at least one volumetric examination performed on it. The exam could be either a construction code volumetric, a preservice or inservice exam. This requirement was met on two of the welds because Inservice Inspection had been performed in previous interval. There was also conformation for all 4 of the C1.10 welds from the Manufacturer (e-mail from vendor) that volumetric exams (reader sheets for RT were found but not the film) were performed on all tubeside butt welds. The manufacturer drawing also confirmed that RT was required for these C1.10 welds (tubeside butt welds).

If leakage is detected on either of the Decay Heat Removal Coolers (2A or 2B) during Pressure Testing and VT-2 examinations, the ISI NDE Plan manager for Oconee shall be notified of the leakage so that an evaluation can be performed to determine the continued use of Code Case N-706 for summary numbers O2.C1.10.0002.

Note: In outage 6 (EOC-26), the ISI Plan manager needs to get the results of the pressure test for all 3 periods in the fourth interval and put the results in the Inservice Inspection Report for Summary Number O2.C1.10.0002.

O2.C1.30.0001	2-SGB-W69 Class 2 03	OM-201.S-0001 OM-201.S-0157	NDE-820	UT	CS		5.125 / 132.000	20T-240	C01.030.001
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Circumferential

Tubesheet to Shell

Steam Generator 2B Upper Tubesheet to Shell Can # 4. Rescheduled to outage 6 as a result of PIP O-06-4249. Reference Code Case N-624.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-A</b>									
O2.C1.30.0001	2-SGB-W69 Class 2 03	OM-201.S-0001 OM-201.S-0157	NDE-640	UT	CS		5.125 / 132.000	20T-240	C01.030.001
	Circumferential		Tubesheet to Shell Steam Generator 2B Upper Tubesheet to Shell Can # 4. Rescheduled to outage 6 as a result of PIP O-06-4249. Reference Code Case N-624.						
O2.C1.30.0002	2-SGB-W65 Class 2 03	OM-201.S-0001 OM-201.S-0157	NDE-640	UT	CS		5.125 / 132.000	20T-240	C01.030.002
	Circumferential		Tubesheet to Shell Steam Generator 2B Lower Tubesheet to Shell Can # 1. Rescheduled to outage 6 as a result of PIP O-06-4249. Reference Code Case N-624.						
O2.C1.30.0002	2-SGB-W65 Class 2 03	OM-201.S-0001 OM-201.S-0157	NDE-820	UT	CS		5.125 / 132.000	20T-240	C01.030.002
	Circumferential		Tubesheet to Shell Steam Generator 2B Lower Tubesheet to Shell Can # 1. Rescheduled to outage 6 as a result of PIP O-06-4249. Reference Code Case N-624.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-C</b>									
O2.C3.20.0003	2-01A-0-1481A-H4B Class 2 01A	2-01-08/sht.1 O-ISIN4-122A-2.1	NDE-35	PT	CS		0.500 / 26.000		C03.020.003

Rigid Support

Calculation No. OSC-1315. Inspect with O2.F1.20.0003.

O2.C3.20.0014	2-51B-2-0-436E-DE104 Class 2 51B	0-2AB-25102-02 O-ISIN4-101A-2.3	NDE-35	PT	SS-CS		0.750 / 6.000		C03.020.032
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Rigid Support

Calculation No. OSC-481. Inspect with O2.F1.20.0016.

Comments added per ONS2-124:  
Material type appears to be carbon attachment to stainless pipe on support sketch 2-51-2-0-436E-DE104.

O2.C3.20.0018	2-51A-3-0-437B-H70 Class 2 51A	0-2AB-25101-04 O-ISIN4-101A-2.1	NDE-35	PT	SS		0.375 / 4.000		C03.020.036
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Spring Hgr

Calculation No. OSC-479. Inspect with O2.F1.22.0012.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-D</b>									
O2.C4.40.0001	2-MS-103-STUD Class 2 01A	OM-200-195 O-ISIN4-122B-2.1	PDI-UT-4	UT	CS		2.250 / NA	40417	C04.040.001
<p>Main Steam Stop Valve 2MS-103.                      Main Steam Stop Valve 2MS-103 was originally scheduled for outage 3. Due to maintenance activities, Pump 2A (C4.30 item) was made accessible to inspect in outage 3. We moved the inspection to outage 3 for Pump 2A and then scheduled item O2.C4.40.0001 for the outage 5 to meet the percentage requirements for category C-D. Stud diameter is 2.250 and Length = 14.125" per drawing in manual OM-200-195.</p>									

**Category C-F-1**

O2.C5.11.0015	2LP-148-93 Class 2 53A	2LP-148 O-ISIN4-102A-2.2	PDI-UT-2	UT	SS	160	1.125 / 10.000	PDI-UT-2A-O PDI-UT-2-O	C05.011.015, C05.011.015A
Circumferential									
<p>Elbow to Pipe                      Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.</p>									
O2.C5.11.0016	2LP-148-94 Class 2 53A	2LP-148 O-ISIN4-102A-2.2	PDI-UT-2	UT	SS	160	1.125 / 10.000	PDI-UT-2A-O PDI-UT-2-O	C05.011.016, C05.011.016A
Circumferential									
<p>Pipe to Pipe                      Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.</p>									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-1</b>									
O2.C5.11.0060	2LP-217-13 Class 2 53A 2LP-217	2LP-217	PDI-UT-2	UT	SS		1.000 / 10.000	PDI-UT-2A-O PDI-UT-2-O	C05.011.060, C05.011.060A
		O-ISIN4-102A-2.3							
Circumferential									
Pipe to Elbow Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.									
O2.C5.11.0061	2LP-217-14 Class 2 53A 2LP-217	2LP-217	PDI-UT-2	UT	SS		1.000 / 10.000	PDI-UT-2A-O PDI-UT-2-O	C05.011.061, C05.011.061A
		O-ISIN4-102A-2.3							
Circumferential									
Elbow to Pipe Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.									
O2.C5.11.0062	2LP-217-18 Class 2 53A 2LP-217	2LP-217	PDI-UT-2	UT	SS		1.000 / 10.000	PDI-UT-2A-O PDI-UT-2-O	C05.011.062, C05.011.062A
		O-ISIN4-102A-2.3							
Circumferential									
Pipe to Elbow Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-1</b>									
02.C5.11.0063	2LP-217-19 Class 2 53A 2LP-217	2LP-217	PDI-UT-2	UT	SS		1.000 / 10.000	PDI-UT-2A-O	C05.011.063, C05.011.063A
		O-ISIN4-102A-2.3						PDI-UT-2-O	
	Circumferential		Elbow to Pipe Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.						
02.C5.11.0065	2LP-217-4 Class 2 53A 2LP-217	2LP-217	PDI-UT-2	UT	SS		1.000 / 10.000	PDI-UT-2A-O	C05.011.065, C05.011.065A
		O-ISIN4-102A-2.3						PDI-UT-2-O	
	Circumferential		Pipe to Elbow Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.						
02.C5.11.0066	2LP-217-5 Class 2 53A 2LP-217	2LP-217	PDI-UT-2	UT	SS		1.000 / 10.000	PDI-UT-2A-O	C05.011.066, C05.011.066A
		O-ISIN4-102A-2.3						PDI-UT-2-O	
	Circumferential		Elbow to Pipe Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-1</b>									
O2.C5.21.0011	2-51A-17-48 Class 2 51A	2-51A-17 (1)  O-ISIN4-101A-2.2	PDI-UT-2	UT	SS		0.237 / 4.000	PDI-UT-2A-O  PDI-UT-2-O	C05.021.019, C05.021.019A
Circumferential									
Tee to Elbow Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.									
O2.C5.21.0015	2-51A-17-136 Class 2 51A	2-51A-17 (3)  O-ISIN4-101A-2.3	PDI-UT-2	UT	SS		0.531 / 4.000	PDI-UT-2A-O  PDI-UT-2-O	C05.021.023, C05.021.023A
Circumferential									
Elbow to Pipe Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.									
O2.C5.21.0043	2-51A-17-82 Class 2 51A	2-51A-17 (2)  O-ISIN4-101A-2.3	PDI-UT-2	UT	SS		0.438 / 3.000	PDI-UT-2A-O  PDI-UT-2-O	C05.021.051, C05.021.051A
Circumferential									
Terminal End									
Elbow to Flange Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-1</b>									
02.C5.21.0044	2-51A-17-83 Class 2 51A	2-51A-17 (2) O-ISIN4-101A-2.3	PDI-UT-2	UT	SS		0.438 / 3.000	PDI-UT-2A-O PDI-UT-2-O	C05.021.052, C05.021.052A
Circumferential									
Pipe to Elbow Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.									
02.C5.21.0046	2-51A-17-103 Class 2 51A	2-51A-17 (4) O-ISIN4-101A-2.3	PDI-UT-2	UT	SS		0.438 / 3.000	PDI-UT-2A-O PDI-UT-2-O	C05.021.054, C05.021.054A
Circumferential									
Terminal End									
Pipe to Elbow Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.									
02.C5.21.0048	2HP-369-167 Class 2 51A	2HP-369 O-ISIN4-101A-2.3	PDI-UT-2	UT	SS		0.438 / 3.000	PDI-UT-2A-O PDI-UT-2-O	C05.021.056, C05.021.056A
Circumferential									
Terminal End									
Elbow to Flange This weld was listed previously as 2-51A-17-167 until iso 2-51A-17(6) was deleted and the welds were transferred to iso 2HP-369.  Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.									



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-1</b>									
O2.C5.21.0429	2HP-219-8 Class 2 51A	2HP-219 O-ISIN4-101A-2.4	NDE-35	PT	SS	160	0.531 / 4.000		C05.021.
	Circumferential		Elbow to Pipe This weld was listed previously as 2-51A-132-8 until iso 2-51A-132 was redrawn.  Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						
O2.C5.21.0429	2HP-219-8 Class 2 51A	2HP-219 O-ISIN4-101A-2.4	PDI-UT-2	UT	SS	160	0.531 / 4.000	PDI-UT-2A-O PDI-UT-2-O	C05.021.
	Circumferential		Elbow to Pipe This weld was listed previously as 2-51A-132-8 until iso 2-51A-132 was redrawn.  Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.					50275	
O2.C5.21.0590	2-51A-17-107 Class 2 51A	2-51A-17 (4) O-ISIN4-101A-2.3	NDE-35	PT	SS	160	0.438 / 3.000		C05.021.
	Circumferential		Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-1</b>									
O2.C5.21.0590	2-51A-17-107 Class 2 51A	2-51A-17 (4) O-ISIN4-101A-2.3	PDI-UT-2	UT	SS	160	0.438 / 3.000	PDI-UT-2-O PDI-UT-2A-O	C05.021.
Circumferential			Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						
O2.C5.21.0636	2-51A-31-4 Class 2 51A	2-51A-31 O-ISIN4-101A-2.1	NDE-35	PT	SS	160	0.674 / 4.000		C05.021.
Circumferential			Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						
O2.C5.21.0636	2-51A-31-4 Class 2 51A	2-51A-31 O-ISIN4-101A-2.1	PDI-UT-2	UT	SS	160	0.674 / 4.000	PDI-UT-2A-O PDI-UT-2-O	C05.021.
Circumferential			Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-1</b>									
02.C5.21.0645	2HP-227-9 Class 2 51A	2HP-227 O-ISIN4-101A-2.3	NDE-35	PT	SS	160	0.438 / 3.000		C05.021.
	Circumferential		Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						
02.C5.21.0645	2HP-227-9 Class 2 51A	2HP-227 O-ISIN4-101A-2.3	PDI-UT-2	UT	SS	160	0.438 / 3.000	PDI-UT-2-O PDI-UT-2A-O	C05.021.
	Circumferential							50275	
			Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						
02.C5.21.0709	2-51A-17-135 Class 2 51A	2-51A-17 (3) O-ISIN4-101A-2.3	NDE-35	PT	SS	160	0.531 / 4.000		C05.021.
	Circumferential		Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-1</b>									
O2.C5.21.0709	2-51A-17-135 Class 2 51A	2-51A-17 (3) O-ISIN4-101A-2.3	PDI-UT-2	UT	SS	160	0.531 / 4.000	PDI-UT-2-O PDI-UT-2A-O	C05.021.
Circumferential			Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.					50275	
O2.C5.21.0714	2-51A-17-88 Class 2 51A	2-51A-17 (2) O-ISIN4-101A-2.3	NDE-35	PT	SS	160	0.438 / 3.000		C05.021.
Circumferential			Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						
O2.C5.21.0714	2-51A-17-88 Class 2 51A	2-51A-17 (2) O-ISIN4-101A-2.3	PDI-UT-2	UT	SS	160	0.438 / 3.000	PDI-UT-2A-O PDI-UT-2-O	C05.021.
Circumferential			Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.					50225	

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category C-F-1</i>									
O2.C5.21.0715	2-51A-17-87 Class 2 51A	2-51A-17 (2) O-ISIN4-101A-2.3	NDE-35	PT	SS	160	0.438 / 3.000		C05.021.
	Circumferential		Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						
O2.C5.21.0715	2-51A-17-87 Class 2 51A	2-51A-17 (2) O-ISIN4-101A-2.3	PDI-UT-2	UT	SS	160	0.438 / 3.000	PDI-UT-2A-O PDI-UT-2-O	C05.021.
	Circumferential		Elbow to Pipe Comments added per ONS2-123: This weld was added to the plan as a result of PIP O-12-9429, which requires an alternative weld be substituted for a previously limited exam.						
								50225	

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-2</b>									
O2.C5.51.0003	2-MS8A-B Class 2 01A	2MS-124  O-ISIN4-122A-2.1 2MS-8A	NDE-600	UT	CS		1.164 / 36.000	Component	C05.051.003, C05.051.003A
	Circumferential		<p>Pipe to Reducing Y Fitting Subassembly 2MS-8A. 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 on iso 2-01A-5 (2) until it was transferred to iso 2MS-124.</p> <p>Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.</p>						
O2.C5.51.0013	2MS-85-6 Class 2 01A	2MS-85  O-ISIN4-122A-2.1	NDE-600	UT	CS		0.432 / 6.000	Component	C05.051.013, C05.051.013A
	Circumferential		<p>Pipe to Valve 2MS-84 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.</p> <p>Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.</p>						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-2</b>									
O2.C5.51.0019	2FDW-225-15 Class 2 03	2FDW-225	NDE-600	UT	CS		1.219 / 24.000	Component	C05.051.019, C05.051.019A
		O-ISIN4-121B-2.3							

Circumferential

Pipe to Elbow

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 used to be listed as 2-03-18-15 and was shown on isometric 2-03-18(1).

Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.

O2.C5.51.0039	2LPS-606-83 Class 2 14B	2LPS-606	PDI-UT-1	UT	CS		0.500 / 8.000		C05.051.039, C05.051.039A
		O-ISIN4-124B-2.2						PDI-UT-1-O	
								PDI-UT-1A-O	

Circumferential

Tee to Pipe

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 2-14B-51-83 until iso 2-14B-51 was redrawn.

Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category C-F-2</i>									
O2.C5.51.0040	2LPS-606-86 Class 2 14B	2LPS-606 O-ISIN4-124B-2.2	PDI-UT-1	UT	CS		0.432 / 6.000	PDI-UT-1-O  PDI-UT-1A-O	C05.051.040, C05.051.040A
	Circumferential		<p>Tee to Flange                      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 2-14B-51-86 until iso 2-14B-51 was redrawn.</p> <p>Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.</p>						
O2.C5.51.0041	2LPS-606-87 Class 2 14B	2LPS-606 O-ISIN4-124B-2.2	PDI-UT-1	UT	CS		0.432 / 6.000	PDI-UT-1-O  PDI-UT-1A-O	C05.051.041, C05.051.041A
	Circumferential		<p>Flange to Pipe                      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 2-14B-51-87 until iso 2-14B-51 was redrawn.</p> <p>Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.</p>						



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-2</b>									
O2.C5.51.0048	2-20B-21-17-11 Class 2 20B 2-20B-21-17	O-ISIN4-116A-2.1	NDE-600	UT	CS		0.500 / 48.000	Component	C05.051.048, C05.051.048A

Circumferential

Pipe to Valve 2-20B-21-1  
System 20B-21. 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.

Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.

O2.C5.51.0049	2-20B-21-17-14 Class 2 20B 2-20B-21-17	O-ISIN4-116A-2.1	NDE-600	UT	CS		0.500 / 48.000	Component	C05.051.049, C05.051.049A
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Circumferential

Pipe to Valve 2-20B-21-6  
System 20B-21. 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.

Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category C-F-2</b>									
O2.C5.51.0050	2-14-238-17 Class 2 14	2-14-238	NDE-600	UT	CS		0.432 / 6.000	Component	C05.051.050, C05.051.050A
		O-ISIN4-121D-2.1							
	Circumferential		Elbow to Pipe 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.  Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.						
O2.C5.51.0051	2-14-238-18 Class 2 14	2-14-238	NDE-600	UT	CS		0.432 / 6.000	Component	C05.051.051, C05.051.051A
		O-ISIN4-121D-2.1							
	Circumferential		Pipe to Elbow 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.  Code Case N-663 allows us to exclude the surface exam from the Fourth Interval ISI Plan. See PIP G-08-00185 (CA # 10) and Calc OSC-9796 Rev.1 for details on the exclusion of surface exams.						

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category D-A</b>									
O2.D1.20.0002	2-01A-1-0-1403C-R26 Class 3 01A	2-01-06/sht.2 O-ISIN4-122A-2.4	NDE-65	VT-1	NA		0.500 / 6.000		D01.020.002

Rigid Restraint

Calculation No. OSC-445. Inspect with F01.031.001.

O2.D1.20.0005	2-03A-1-0-1439C-H9 Class 3 03A	2-03A-06/sht.3 O-ISIN4-121D-2.1	NDE-65	VT-1	NA		0.312 / 6.000		D01.020.011
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Rigid Restraint

Calculation No. OSC-459. Inspect with F01.031.021.

O2.D1.20.0010	2-03A-1-0-1400A-H89 Class 3 03A	0-2TB-203A12-01 O-ISIN4-121D-2.1	NDE-65	VT-1	NA		0.750 / 6.000		D01.020.016
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Rigid Restraint

Calculation No. OSC-1213. Inspect with F01.031.017.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category D-A</b>									
O2.D1.20.0012	2-03A-1-0-1437A-H5 Class 3 03A	2-03A-09/sht.3 O-ISIN4-121D-2.1	NDE-65	VT-1	NA		0.125 / 6.000		D01.020.018
Rigid Support									
Calculation No. OSC-450. Inspect with F01.030.017.									
O2.D1.20.0016	2-08-1-0-1400A-H1 Class 3 08	0-2TB-20801-01 O-ISIN4-122A-2.4	NDE-65	VT-1	NA		0.237 / 10.000		D01.020.041
Spring Hgr									
Calculation No. OSC-1807. Inspect with F01.032.031.									
O2.D1.20.0019	2-14B-0-1439B-DE188 Class 3 14B	4-14-04/sht.2 O-ISIN4-124B-2.2	NDE-65	VT-1	NA		0.216 / 14.000		D01.020.062
Rigid Support									
Calculation No. OSC-474. Inspect with F01.030.077.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category ELC</i>									
O2.H2.1.0008	2-PIA2-12 Class 1 50	ISI-OCN2-008 OM-1201-1521	NDE-35	PT	CS-Inconel		2.250 / 8.750		H02.001.008
Circumferential Dissimilar									
Nozzle to Pipe RTE Mounting Boss Pc.58 to Pipe Pc.56. The diameter of hole that penetrates the nozzle into the RCP 2A2 Suction Piping = .613. Reference Section 7 of the ISI Plan, General Requirements.									
Comments added per ONS2-124: Thickness / NPS validated as shown on Isometric. If actual Thickness / NPS is needed a field measurement will be required.									
O2.H4.1.0041	2-01A-0-1401B-R10 Class 2 01A	2-01-01/shl.1 O-ISIN4-122A-2.1	NDE-25	MT	CS		1.000 / 36.500		H04.001.041, H04.001.041A
Rigid Support									
Calculation No. OSC-440. -- (H04.001.041A) 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.									
Comments added per ONS2-124: Support sketch shows Pipe Diameter as 36.500 / OD.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category ELC</i> O2.H4.1.0041	2-01A-0-1401B-R10 Class 2 01A 2-01-01/sht.1	O-ISIN4-122A-2.1	NDE-66	VT-3	CS		1.000 / 36.500		H04.001.041, H04.001.041A

Rigid Support

Calculation No. OSC-440.

-- (H04.001.041A) 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.

Comments added per ONS2-124:  
Support sketch shows Pipe Diameter as 36.500 / OD.

O2.H4.1.0042	2-01A-0-1401B-H19 Class 2 01A 2-01-01/sht.2	O-ISIN4-122A-2.1	NDE-66	VT-3	NA		0.000 / 36.000		H04.001.042
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Spring Hgr

Calculation No. OSC-440.

O2.H4.1.0043	2-01A-0-1401B-H20 Class 2 01A 2-01-01/sht.2	O-ISIN4-122A-2.1	NDE-66	VT-3	NA		0.000 / 36.000		H04.001.043
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Rigid Support

Calculation No. OSC-440.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category ELC</b>									
O2.H4.1.0045	2-01A-0-1401B-R12 Class 2 01A	2-01-01/shl.2 O-ISIN4-122A-2.1	NDE-66	VT-3	NA		0.000 / 36.000		H04.001.045
Hyd Snubber									
Calculation No. OSC-440.									
O2.H4.1.0046	2-01A-0-1401B-H22 Class 2 01A	2-01-01/shl.2 O-ISIN4-122A-2.1	NDE-66	VT-3	NA		0.000 / 12.000		H04.001.046
Rigid Support									
Calculation No. OSC-440.									
O2.H4.1.0048	2-01A-0-1401B-R13 Class 2 01A	2-01-01/shl.1 O-ISIN4-122A-2.1	NDE-66	VT-3	NA		0.000 / 36.000		H04.001.048
Hyd Snubber									
Calculation No. OSC-440.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category ELC</b>									
O2.H6.1.0001	2-PEN-25-WHIP Class 2 01A	O-60M O-0494 O-439A	NDE-65	VT-1	NA		0.000 / 0.000		H06.001.001

Using a fiberscope, perform a remote visual (VT-1) exam on the collar attachment weld located inside of the guard pipe at penetration # 25. Examine only the collar attachment weld located on the East Penetration Room side of the collar. This attachment is associated with the Feedwater Pipe Whip Restraint located at Penetration #25. Inspection results should be forwarded to Timothy D Brown of the Oconee Design Basis Group.

O2.H6.1.0002	2-PEN-27-WHIP Class 2 01A	O-60M O-0494 O-439A	NDE-65	VT-1	NA		0.000 / 0.000		H06.001.002
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Using a fiberscope, perform a remote visual (VT-1) exam on the collar attachment weld located inside of the guard pipe at penetration # 27. Examine only the collar attachment weld located on the East Penetration Room side of the collar. This attachment is associated with the Feedwater Pipe Whip Restraint located at Penetration # 27. Inspection results should be forwarded to Timothy D Brown of the Oconee Design Basis Group.

<b>Category F-A</b>									
O2.F1.10.0003	2-51A-0-1479A-H5B Class 1 51A	2-51-24 O-ISIN4-101A-2.4	NDE-66	VT-3	NA		0.500 / 2.500		F01.010.013

Rigid Support

Calculation No. OSC-1323.  
HPI West Coolant Loop.



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
O2.F1.10.0008	2-59-0-1478A-H28 Class 1 59	2-51-12/sht.3 O-ISIN4-100A-2.1	NDE-66	VT-3	NA		0.000 / 1.500		F01.010.051
Rigid Restraint									
Calculation No. OSC-1660-06.									
O2.F1.11.0010	2-59-0-1478D-H6406 Class 1 59	0-2RB-25902-01 O-ISIN4-100A-2.1	NDE-66	VT-3	NA		0.000 / 1.500		F01.011.051
Rigid Restraint									
Calculation No. OSC-1330-06.									
O2.F1.12.0007	2-53-0-1478A-H3 Class 1 53	0-2RB-25310-03 O-ISIN4-102A-2.1	NDE-66	VT-3	NA		0.280 / 12.000		F01.012.021
Hyd Snubber									
Calculation No. OSC-1320-06.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
O2.F1.20.0003	2-01A-0-1481A-H4B Class 2 01A	2-01-08/sht.1 O-ISIN4-122A-2.1	NDE-66	VT-3	NA		0.500 / 26.000		F01.020.003
Rigid Support									
Calculation No. OSC-1315. Inspect with O2.C3.20.0003.									
O2.F1.20.0011	2-14B-0-1439A-DE195 Class 2 14B	4-14-04/sht.3 O-ISIN4-124B-2.2	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.023
Rigid Support									
Calculation No. OSC-474.									
O2.F1.20.0012	2-14-1478F-H6095 Class 2 14	0-2RB-203A13-03 O-ISIN4-121D-2.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.020.024
Rigid Support									
Calculation No. OSC-1224-17.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
O2.F1.20.0016	2-51B-2-0-436E-DE104 Class 2 51B	0-2AB-25102-02 O-ISIN4-101A-2.3	NDE-66	VT-3	NA		0.750 / 6.000		F01.020.044

Rigid Support

Calculation No. OSC-481. Inspect with O2.C3.20.0014.

O2.F1.20.0017	2-51A-6-0-435B-DE002 Class 2 51A	0-2AB-25102-02 O-ISIN4-101A-2.3	NDE-66	VT-3	NA		0.000 / 6.000		F01.020.045
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Rigid Support

Calculation No. OSC-481.

O2.F1.20.0027	2-51A-2-0-1439C-H18 Class 2 51A	2-51-18/sh1.5 O-ISIN4-101A-2.4	NDE-66	VT-3	NA		0.000 / 4.000		F01.020.055
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Rigid Restraint

Calculation No. OSC-1023. HPI System.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-28)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
O2.F1.20.0031	2-51B-436J-DE057 Class 2 51B	0-2AB-25101-02 O-ISIN4-101A-2.2	NDE-66	VT-3	NA		0.000 / 3.000		F01.020.059
	Rigid Support								
	Calculation No. OSC-479.								
O2.F1.20.0043	2-53B-438C-H5501 Class 2 53B	0-2AB-25302-01 O-ISIN4-102A-2.1	NDE-66	VT-3	NA		0.000 / 8.000		F01.020.081
	Rigid Support								
	Calculation No. OSC-493.								
O2.F1.20.0045	2-53B-5-0-1439C-H35 Class 2 53B	0-2AB-25302-01 O-ISIN4-102A-2.2	NDE-66	VT-3	NA		0.000 / 10.000		F01.020.083
	Rigid Support								
	Calculation No. OSC-493.								

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
02.F1.20.0046	2-53B-5-0-1444-R13 Class 2 53B	0-2AB-25302-02 O-ISIN4-102A-2.2	NDE-66	VT-3	NA		0.000 / 10.000		F01.020.084
Rigid Support									
Calculation No. OSC-493.									
02.F1.21.0002	2-03A-1-0-1439A-DE037 Class 2 03A	2-03A-05/sht.1 O-ISIN4-121D-2.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.021.012
Rigid Restraint									
Calculation No. OSC-447.									
02.F1.21.0009	2-14B-0-1479A-H5F Class 2 14B	2-14-14/sht.1 O-ISIN4-124B-2.2	NDE-66	VT-3	NA		1.500 / 8.000		F01.021.027
Rigid Restraint									
Calculation No. OSC-1325-06.									

This report includes all changes through addendum ONS2-131  
 Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
02.F1.21.0018	2-51A-0-1439B-H173 Class 2 51A	2-51-18/sht.1 O-ISIN4-101A-2.4	NDE-66	VT-3	NA		0.750 / 4.000		F01.021.046
	Rigid Restraint								
	Calculation No. OSC-1023. HPI System.								
02.F1.21.0019	2-51A-1-0-435B-SR52 Class 2 51A	2-51-18/sht.3 O-ISIN4-101A-2.3	NDE-66	VT-3	NA		0.000 / 4.000		F01.021.047
	Rigid Restraint								
	Calculation No. OSC-1023. HPI System.								
02.F1.21.0028	2-53B-0-435B-DE051 Class 2 53B	0-2AB-25301-04 O-ISIN4-102A-2.2	NDE-66	VT-3	NA		0.750 / 14.000		F01.021.062
	Rigid Restraint								
	Calculation No. OSC-487.								

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
O2.F1.22.0005	2-01A-0-1481A-H6B Class 2 01A	2-01-08/sht.1 O-ISIN4-122A-2.1	NDE-66	VT-3	NA		0.000 / 26.000		F01.022.005

Constant Support

Calculation No. OSC-1315.

O2.F1.22.0012	2-51A-3-0-437B-H70 Class 2 51A	0-2AB-25101-04 O-ISIN4-101A-2.1	NDE-66	VT-3	NA		0.375 / 4.000		F01.022.041
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Spring Hgr

Calculation No. OSC-479. Inspect with O2.C3.20.0018.

O2.F1.22.0015	2-51A-2-0-1439C-H17 Class 2 51A	2-51-18/sht.5 O-ISIN4-101A-2.4	NDE-66	VT-3	NA		0.000 / 4.000		F01.022.044
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Spring Hgr

Calculation No. OSC-1023.  
HPI System.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
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**Category F-A**

O2.F1.22.0020	2-53B-5-0-435B-DE057 Class 2 53B	0-2AB-25301-03 O-ISIN4-102A-2.2	NDE-66	VT-3	NA		0.000 / 10.000		F01.022.054
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Mech Snubber

Calculation No. OSC-487.

O2.F1.22.0027	2-56-2-0-438C-H16 Class 2 56	4-56-02/shL5 O-ISIN4-104A-1.1	NDE-66	VT-3	NA		0.000 / 8.000		F01.022.071
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Spring Hgr

Calculation No. OS-421.

O2.F1.30.0003	2-01A-0-1403D-DE017 Class 3 01A	2-01-06/shL1 O-ISIN4-122A-2.4	NDE-66	VT-3	NA		0.000 / 6.000		F01.030.003
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Rigid Support

Calculation No. OSC-445.



This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
O2.F1.30.0006	2-03A-1-0-1439B-H13 Class 3 03A	2-03A-06/sht.1 O-ISIN4-121D-2.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.030.013
Rigid Support									
Calculation No. OSC-459.									
O2.F1.30.0009	2-03A-1-0-1400B-H41 Class 3 03A	2-03A-08/sht.4 O-ISIN4-121D-2.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.030.016
Rigid Support									
Calculation No. OSC-449.									
O2.F1.30.0010	2-03A-1-0-1437A-H5 Class 3 03A	2-03A-09/sht.3 O-ISIN4-121D-2.1	NDE-66	VT-3	NA		0.125 / 6.000		F01.030.017
Rigid Support									
Calculation No. OSC-450. Inspect with D01.020.018.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
O2.F1.30.0017	2-03A-1401B-DE019 Class 3 03A	2-03A-05/sht.5 O-ISIN4-121D-2.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.030.024
Rigid Support									
Calculation No. OSC-447.									
O2.F1.30.0025	2-07A-6-0-1400A-H66 Class 3 07A	0-2TB-20701-02 O-ISIN4-121A-2.8	NDE-66	VT-3	NA		0.000 / 20.000		F01.030.042
Rigid Support									
Calculation No. OSC-467.									
O2.F1.30.0031	2-08-1400A-H5 Class 3 08	0-2TB-20801-01 O-ISIN4-122A-2.4	NDE-66	VT-3	NA		0.000 / 10.000		F01.030.051
Rigid Support									
Calculation No. OSC-1807.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category F-A</i>									
O2.F1.30.0039	2-14B-1437A-SR51 Class 3 14B	2-14-06/sht.3 O-ISIN4-124B-2.1	NDE-66	VT-3	NA		0.000 / 20.000		F01.030.076

Rigid Support

Calculation No. OSC-475.

O2.F1.30.0040	2-14B-0-1439B-DE188 Class 3 14B	4-14-04/sht.2 O-ISIN4-124B-2.2	NDE-66	VT-3	NA		0.216 / 14.000		F01.030.077
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Rigid Support

Calculation No. OSC-474. Inspect with D01.020.062.

O2.F1.30.0043	2-57-0-1481A-H6 Class 3 57	0-2RB-25701-01 O-ISIN4-100A-2.2	NDE-66	VT-3	NA		0.000 / 8.000		F01.030.081
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Rigid Support

Calculation No. OSC-1332-06.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
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*Category F-A*

O2.F1.31.0001	2-01A-1-0-1403C-R26 Class 3 01A	2-01-06/sht.2 O-ISIN4-122A-2.4	NDE-66	VT-3	NA		0.500 / 6.000		F01.031.001
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Rigid Restraint

Calculation No. OSC-445. Inspect with D01.020.002.

O2.F1.31.0006	2-03A-1-0-1401B-SR7 Class 3 03A	2-03A-05/sht.5 O-ISIN4-121D-2.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.031.015
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Rigid Restraint

Calculation No. OSC-447.

O2.F1.31.0008	2-03A-1-0-1400A-H89 Class 3 03A	0-2TB-203A12-01 O-ISIN4-121D-2.1	NDE-66	VT-3	NA		0.750 / 6.000		F01.031.017
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Rigid Restraint

Calculation No. OSC-1213. Inspect with D01.020.016.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
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**Category F-A**

O2.F1.31.0012	2-03A-1-0-1439C-H9 Class 3 03A	2-03A-06/sht.3 O-ISIN4-121D-2.1	NDE-66	VT-3	NA		0.312 / 6.000		F01.031.021
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Rigid Restraint

Calculation No. OSC-459. Inspect with D01.020.011.

O2.F1.31.0016	2-08-1401B-H11 Class 3 08	0-2TB-20801-02 O-ISIN4-122A-2.4	NDE-66	VT-3	NA		0.000 / 10.000		F01.031.041
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Rigid Restraint

Calculation No. OSC-1807.

O2.F1.32.0007	2-03A-1-0-1401B-SR101PO Class 3 03A	2-03A-08/sht.4 O-ISIN4-121D-2.1	NDE-66	VT-3	NA		0.000 / 6.000		F01.032.015
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Hyd Snubber

Calculation No. OSC-449.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
02.F1.32.0010	2-08-1-0-1400A-H1 Class 3 08	0-2TB-20801-01 O-ISIN4-122A-2.4	NDE-66	VT-3	NA		0.237 / 10.000		F01.032.031

Spring Hgr

Calculation No. OSC-1807. Inspect with D01.020.041.

02.F1.40.0001	2-RPV-WR36 Class 1	ISI-OCN2-001 O-ISIN4-100A-2.1 OM-1201-454	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.001
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Reactor Vessel Support Skirt to Transition Piece. Additional drawing OM-1201-455.

02.F1.40.0007	2-BWS-TANK Class 2	OM-2201-832 O-ISIN4-102A-2.1 OM-1201-80	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.007
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Borated Water Storage Tank Support.

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<i>Category F-A</i>									
O2.F1.40.0015	2-RBS-PU-B Class 2	OM-201-427 O-ISIN4-103A-2.1 OM-201-1704	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.015
Reactor Building Spray Pump 2B Support Legs & Pad.									
O2.F1.40.0016	2-SSF-AUX-SW-PU Class 3	OM-208-122 O-ISIN4-133A-2.5	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.016
SSF Auxillary Service Water Pump Support.									
O2.F1.40.0022	2-RCP-SS-FTR-A Class 2	OM-201-473 O-ISIN4-101A-2.4 O-1444	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.022
Reactor Coolant Pump Seal Supply Filter 2A Support.									

This report includes all changes through addendum ONS2-131

Oconee 2, 4th Interval, outage 6 (EOC-26)

Summary Num	Component ID Class / System	ISO/DWG Numbers	Procedure Description Comments	Insp Req	Material	Sched	Thick/NPS	Cal Blocks	Component ID 2
<b>Category F-A</b>									
O2.F1.40.0023	2-ESVP-A Class 3	OM-212-0014 O-ISIN4-130A-2.1	NDE-66	VT-3	NA		0.000 / 0.000		F01.040.023

Essential Siphon Vacuum Pump 2A Support.

O2.F1.40.0028	2-50-RCPM-2B2-SS2 Class 1	0-1066A O-ISIN4-100A-2.1 O-ISIN4-100A-2.3	NDE-66	VT-3	NA		0.000 / 6.000		F01.040.028
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Hyd Snubber

Calculation No. OSC-0991-01-0001, Reactor Coolant Pump 2B2 Motor Snubbers. Reference PIP 0-096-1575.

End of Report

**STATISTICS ONLY**      Class 1 149      Class 2 80      Class 3 25      Total by Class 254      Systems 254      Total Count 254



#### **4.0 Results Of Inspections Performed**

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

#### **4.1 Reportable Indications**

2EOC 26 (Outage 6) 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.

#### 4.4 Limited Examinations

Limited examinations (i.e., 90% or less of the required examination coverage obtained) identified during 2EOC 26 (Outage 6) 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.

<b><i>Summary Number</i></b>	<b><i>Description of Limitation</i></b>
O2.B1.11.0003	See PIP O-14-00547 for corrective action on this limitation
O2.B1.11.0004	See PIP O-14-00547 for corrective action on this limitation
O2.B1.21.0001	See PIP O-14-00547 for corrective action on this limitation
O2.B3.110.0009	See PIP O-14-00547 for corrective action on this limitation
O2.B3.110.0010	See PIP O-14-00547 for corrective action on this limitation
O2.B3.110.0011	See PIP O-14-00547 for corrective action on this limitation
O2.B3.150.0003	See PIP O-14-00547 for corrective action on this limitation
O2.B3.150.0004	See PIP O-14-00547 for corrective action on this limitation
O2.C1.30.0001	See PIP O-14-00547 for corrective action on this limitation
O2.C5.21.0011	See PIP O-14-00547 for corrective action on this limitation
O2.F1.40.0001	See PIP O-14-00547 for corrective action on this limitation

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

Scheduleworks

**Oconee 2, 4th Interval, Outage 6 (EOC-26)**

Examination results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.B1.11.0001	2-RPV-WR1A	50		REC	N	N	N	Areva 51-9213066  Indications acceptable per IWB-3510. Reference Areva Report 51-9213066 for results.
O2.B1.11.0002	2-RPV-WR1	50		REC	N	N	N	Areva 51-9213066  Indications acceptable per IWB-3510. Reference Areva Report 51-9213066 for results.
O2.B1.11.0003	2-RPV-WR18	50		REC	Y	N	Y	Areva 51-9213066  Indications acceptable per IWB-3510. Reference Areva Report 51-9213066 for results. Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
O2.B1.11.0004	2-RPV-WR34	50		REC	Y	N	Y	Areva 51-9213066  Indications acceptable per IWB-3510. Reference Areva Report 51-9213066 for results. Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
O2.B1.21.0001	2-RPV-WR35	50		REC	Y	N	Y	Areva 51-9213066  Indications acceptable per IWB-3510. Reference Areva Report 51-9213066 for results. Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
O2.B1.30.0001	2-RPV-WR19	50		REC	Y	N	N	Areva 51-9213066  Indications acceptable per IWB-3510. Reference Areva Report 51-9213066 for results. Percent of Coverage > 90% no Relief Request required.

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.B13.10.0001	2-RPV-INT-SURFACE	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B13.50.0001	2RPV-INT-LUGS	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B13.60.0001	INCORE INSTR NOZ WELDS	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B13.60.0002	FLOW STABILIZERS	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B13.70.0001	2-RPV-INTERNALS	50		REC	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data. Reference PIP's O-13-11569 and O-13-13047 for indication evaluations.
O2.B14.10.0013	2-RPV-CRD-67WH9	50	11/10/13	CLR	N	N	N	PT-13-439
O2.B14.10.0014	2-RPV-CRD-67W60	50	11/08/13	CLR	N	N	N	PT-13-436
O2.B14.10.0015	2-RPV-CRD-67	50	11/08/13	CLR	N	N	N	PT-13-437
O2.B14.10.0016	2-RPV-CRD-67W61	50	11/08/13	CLR	N	N	N	PT-13-438
O2.B15.210.0001	2RC-278-66	50	10/14/13	CLR	N	N	N	VT-13-1157
O2.B15.210.0002	2RC-278-70V	50	10/14/13	CLR	N	N	N	VT-13-1158

## Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.B15.210.0003	2RC-277-50	50	10/14/13	CLR	N	N	N	VT-13-1159
O2.B15.210.0004	2RC-277-71V	50	10/14/13	CLR	N	N	N	VT-13-1160
O2.B15.210.0005	2RC-278-23	50	10/14/13	CLR	N	N	N	VT-13-1161
O2.B15.210.0006	2RC-278-69	50	10/14/13	CLR	N	N	N	VT-13-1162
O2.B15.210.0007	2RC-277-24	50	10/14/13	CLR	N	N	N	VT-13-1163
O2.B15.210.0008	2RC-277-70	50	10/14/13	CLR	N	N	N	VT-13-1164
O2.B15.210.0009	2-PHA-13	50	10/14/13	CLR	N	N	N	VT-13-1165
O2.B15.210.0010	2-PHA-14	50	10/14/13	CLR	N	N	N	VT-13-1166
O2.B15.210.0011	2-PHA-15	50	10/14/13	CLR	N	N	N	VT-13-1167
O2.B15.210.0012	2-PHB-13	50	10/14/13	CLR	N	N	N	VT-13-1168
O2.B15.210.0013	2-PHB-14	50	10/14/13	CLR	N	N	N	VT-13-1169
O2.B15.210.0014	2-PHB-15	50	10/14/13	CLR	N	N	N	VT-13-1170
O2.B15.210.0015	2SGA-HL-CON-36	50	10/14/13	CLR	N	N	N	VT-13-1171
O2.B15.210.0016	2SGB-HL-CON-27	50	10/14/13	CLR	N	N	N	VT-13-1172

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.B15.215.0013	2-PDB2-11	50	10/14/13	CLR	N	N	N	VT-13-1183
O2.B15.80.0001	2-RPV-BMI-NOZZLES	50	10/13/13	CLR	N	N	N	VT-13-1181
O2.B2.51.0001	2-LDCB-OUT-WJ35V	51A	11/03/13	CLR	N	N	N	UT-13-1184 (Page 1)
		51A	11/03/13	CLR	N	N	N	UT-13-1184 (Page 2)
O2.B2.51.0002	2-LDCB-IN-WJ32V	51A	11/03/13	CLR	N	Y	N	UT-13-1185 (Page 1)
		51A	11/03/13	CLR	N	Y	N	UT-13-1185 (Page 2)
O2.B2.60.0001	2-LDCB-IN-WJ31V	51A	11/03/13	CLR	N	Y	N	UT-13-1182 (Page 1)
		51A	11/03/13	CLR	N	Y	N	UT-13-1182 (Page 2)
O2.B2.60.0002	2-LDCB-OUT-WJ34V	51A	11/03/13	CLR	N	Y	N	UT-13-1183 (Page 1)
		51A	11/03/13	CLR	N	Y	N	UT-13-1183 (Page 2)
O2.B3.100.0001	2-RPV-WR13	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B3.100.0002	2-RPV-WR13A	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B3.100.0003	2-RPV-WR12	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.B3.100.0004	2-RPV-WR12A	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B3.100.0005	2-RPV-WR12B	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B3.100.0006	2-RPV-WR12C	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B3.100.0007	2-RPV-WR54	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B3.100.0008	2-RPV-WR54A	50		CLR	N	N	N	Areva 51-9213068 Reference Areva Report 51-9213068 for data.
O2.B3.110.0009	2-PZR-WP26-1	50	10/24/13	CLR	Y	N	Y	UT-13-1169 Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/24/13	CLR	Y	N	Y	UT-13-1170 (Page 1) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/24/13	CLR	Y	N	Y	UT-13-1170 (Page 2) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/24/13	CLR	Y	N	Y	UT-13-1170 (Page 3) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/24/13	CLR	Y	N	Y	UT-13-1170 (Page 4) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.B3.110.0010	2-PZR-WP26-2	50	10/24/13	CLR	Y	N	Y	UT-13-1171 Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/24/13	CLR	Y	N	Y	UT-13-1172 (Page 1) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/24/13	CLR	Y	N	Y	UT-13-1172 (Page 2) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/24/13	CLR	Y	N	Y	UT-13-1172 (Page 3) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/24/13	CLR	Y	N	Y	UT-13-1172 (Page 4) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
O2.B3.110.0011	2-PZR-WP26-3	50	10/23/13	CLR	Y	N	Y	UT-13-1174 Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/24/13	CLR	Y	N	Y	UT-13-1175 (Page 1) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/23/13	CLR	Y	N	Y	UT-13-1175 (Page 2) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		50	10/23/13	CLR	Y	N	Y	UT-13-1175 (Page 3) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
O2.B3.120.0010	2-PZR-WP26-2	50	10/24/13	CLR	N	N	N	UT-13-1173 (Page 1)
		50	10/24/13	CLR	N	N	N	UT-13-1173 (Page 2)



Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.B3.120.0010	2-PZR-WP26-2	50	10/24/13	CLR	N	N	N	UT-13-1173 (Page 3)
O2.B3.150.0003	2-LDCB-IN-WJ33V	51A	11/03/13	CLR	Y	N	Y	UT-13-1186 (Page 1) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		51A	11/03/13	CLR	Y	N	Y	UT-13-1186 (Page 2) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		51A	11/03/13	CLR	Y	N	Y	UT-13-1186 (Page 3) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
O2.B3.150.0004	2-LDCB-OUT-WJ36V	51A	11/03/13	CLR	Y	N	Y	UT-13-1187 (Page 1) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		51A	11/03/13	CLR	Y	N	Y	UT-13-1187 (Page 2) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
		51A	11/03/13	CLR	Y	N	Y	UT-13-1187 (Page 3) Percent of Coverage < 90% Relief Request required. Reference PIP O-14-00547.
O2.B3.160.0003	2-LDCB-IN-WJ33V	51A		CLR	N	N	N	UT-NA Exam not required. Reference RFR 04-0N-015.
O2.B3.160.0004	2-LDCB-OUT-WJ36V	51A		CLR	N	N	N	UT-NA Exam not required. Reference RFR 04-0N-015.
O2.B3.90.0001	2-RPV-WR13	50		REC	Y	N	N	Areva 51-9213066 Indications acceptable per IWB-3512-1. Percent of Coverage > 90% no Relief Request required. Reference Areva Report 51-9213066 for data.

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.B3.90.0002	2-RPV-WR13A	50		REC	Y	N	N	Areva 51-9213066  Indications acceptable per IWB-3512-1. Percent of Coverage > 90% no Relief Request required. Reference Areva Report 51-9213066 for data.
O2.B3.90.0003	2-RPV-WR12	50		REC	Y	N	N	Areva 51-9213066  Indications acceptable per IWB-3512-1. Percent of Coverage > 90% no Relief Request required. Reference Areva Report 51-9213066 for data.
O2.B3.90.0004	2-RPV-WR12A	50		REC	Y	N	N	Areva 51-9213066  Indications acceptable per IWB-3512-1. Percent of Coverage > 90% no Relief Request required. Reference Areva Report 51-9213066 for data.
O2.B3.90.0005	2-RPV-WR12B	50		REC	Y	N	N	Areva 51-9213066  Indications acceptable per IWB-3512-1. Percent of Coverage > 90% no Relief Request required. Reference Areva Report 51-9213066 for data.
O2.B3.90.0006	2-RPV-WR12C	50		REC	Y	N	N	Areva 51-9213066  Indications acceptable per IWB-3512-1. Percent of Coverage > 90% no Relief Request required. Reference Areva Report 51-9213066 for data.
O2.B3.90.0007	2-RPV-WR54	50		REC	N	N	N	Areva 51-9213066  Indications acceptable per IWB-3512-1. Reference Areva Report 51-9213066 for data.
O2.B3.90.0008	2-RPV-WR54A	50		REC	N	N	N	Areva 51-9213066  Indications acceptable per IWB-3512-1. Reference Areva Report 51-9213066 for data.

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
02.B4.40.0001	2-RPV-HEAD-PEN	50		CLR	Y	N	N	Areva 51-9213064  Some limitations occurred on some of the nozzles but all were >90%. No relief required. Reference Areva Report 51-9213064. The required 10 CFR 50.55a examination coverage was achieved for all penetrations. Although thirty five (35) penetrations obtained slightly less than 100% coverage (ranging from 94.1% to 99.3%) they meet the NRC definition of essentially 100% coverage which is defined as greater than 90% in 10CFR 50.55a (g)(6)(ii)(D)(3). A record of the coverage obtained for each nozzle is provided in the "Examination Summary Table" included in this report.
02.B5.10.0001	2-RPV-WR53	50		CLR	N	N	N	Areva 51-9213066  Reference Areva Report 51-9213066 for data.
02.B5.10.0002	2-RPV-WR53A	50		CLR	N	N	N	Areva 51-9213066  Reference Areva Report 51-9213066 for data.
02.B6.180.0001	2-RCP-2A1-FB	50	10/23/13	CLR	N	N	N	UT-13-1156
02.B6.180.0007	2-RCP-2B1-SEAL	50	10/20/13	CLR	N	N	N	UT-13-1131
02.B6.200.0007	2-RCP-2B1-WASHER	50	10/19/13	CLR	N	N	N	VT-13-1177
02.B7.20.0003	2-PZR-LHB-STUDS	50	10/22/13	CLR	N	N	N	VT-13-1178
02.B7.30.0003	2-SGB-UMW-STUDS	50	10/13/13	CLR	N	N	N	VT-13-1173
02.B7.30.0004	2-SGB-LMW-STUDS	50	10/16/13	CLR	N	N	N	VT-13-1174
02.B9.11.0019	2-PHA-1	50		CLR	N	N	N	Areva 51-9213066  Reference Areva Report 51-9213066 for data.

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.B9.11.0021	2-PHB-1	50		CLR	N	N	N	Areva 51-9213066 Reference Areva Report 51-9213066 for data.
O2.B9.11.0032	2-PDA1-8	50		CLR	N	N	N	Areva 51-9213066 Reference Areva Report 51-9213066 for data.
O2.B9.11.0033	2-PDA2-8	50		REC	N	N	N	Areva 51-9213066 Indication acceptable per IWB-3514-1. Reference Areva Report 51-9213066 for data.
O2.B9.11.0034	2-PDB1-8	50		CLR	N	N	N	Areva 51-9213066 Reference Areva Report 51-9213066 for data.
O2.B9.11.0035	2-PDB2-8	50		CLR	N	N	N	Areva 51-9213066 Reference Areva Report 51-9213066 for data.
O2.B9.21.0005	2RC-203-22	50	10/18/13	CLR	N	N	N	PT-13-419
O2.B9.21.0026	2HP-496-37	51A	11/04/13	CLR	N	N	N	PT-13-432
O2.B9.21.0029	2HP-214-15	51A	10/17/13	CLR	N	N	N	PT-13-417
O2.B9.21.0034	2RC-202-19	51A	10/20/13	CLR	N	N	N	PT-13-423
O2.B9.21.0035	2RC-202-4	51A	10/20/13	CLR	N	N	N	PT-13-424
O2.B9.21.0036	2RC-203-32	51A	10/18/13	CLR	N	N	N	PT-13-420
O2.B9.21.0037	2RC-203-3	51A	10/18/13	CLR	N	N	N	PT-13-421

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.B9.21.0060	2HP-214-10	51A	10/17/13	CLR	N	N	N	PT-13-416
O2.B9.21.0062	2HP-215-11	51A	10/21/13	CLR	N	N	N	PT-13-426
O2.B9.21.0063	2HP-215-16	51A	10/21/13	CLR	N	N	N	PT-13-427
O2.B9.21.0185	2-51A-145-44	51A	11/04/13	CLR	N	N	N	PT-13-433
O2.B9.21.0227	2HP-495-27	51A	11/04/13	CLR	N	N	N	PT-13-434
O2.B9.21.0259	2-RC-266-47	50	10/26/13	CLR	N	N	N	PT-13-430
O2.B9.21.0266	2-RC-266-36	50	10/26/13	CLR	N	N	N	PT-13-431
O2.B9.40.0001	2RC-271-11G	50	10/21/13	CLR	N	N	N	PT-13-428
O2.B9.40.0010	2RC-253-8	50	10/21/13	CLR	N	N	N	PT-13-429
O2.C1.10.0001	2-LPCB-SH-1	53B		CLR	N	N	N	VT-NA VT-2 Examined in Zone IZ2L-27A.
O2.C1.10.0002	2-LPCB-SH-2	53B		CLR	N	N	N	VT-NA VT-2 Examined in Zone OZ2L-26.
O2.C1.30.0001	2-SGB-W69	03	10/23/13	CLR	Y	N	Y	UT-13-1176 Percent of coverage < 90% Relief Request required. Reference PIP O-14-00547.

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.C1.30.0001	2-SGB-W69	03	10/23/13	CLR	Y	N	Y	UT-13-1179 (Page 1) Percent of coverage < 90% Relief Request required. Reference PIP O-14-00547.
		03	10/23/13	CLR	Y	N	Y	UT-13-1179 (Page 2) Percent of coverage < 90% Relief Request required. Reference PIP O-14-00547.
		03	10/23/13	CLR	Y	N	Y	UT-13-1179 (Page 3) Percent of coverage < 90% Relief Request required. Reference PIP O-14-00547.
		03	10/23/13	CLR	Y	N	Y	UT-13-1179 (Page 4) Percent of coverage < 90% Relief Request required. Reference PIP O-14-00547.
O2.C1.30.0002	2-SGB-W65	03	10/21/13	CLR	Y	N	N	UT-13-1177 Percent of coverage >90%. No Relief Request required.
		03	10/21/13	CLR	Y	N	N	UT-13-1178 (Page 1) Percent of coverage >90%. No Relief Request required.
		03	10/21/13	CLR	Y	N	N	UT-13-1178 (Page 2) Percent of coverage >90%. No Relief Request required.
		03	10/21/13	CLR	Y	N	N	UT-13-1178 (Page 3) Percent of coverage >90%. No Relief Request required.
		03	10/21/13	CLR	Y	N	N	UT-13-1178 (Page 4) Percent of coverage >90%. No Relief Request required.
O2.C3.20.0003	2-01A-0-1481A-H4B	01A	10/21/13	CLR	N	N	N	PT-13-425
O2.C3.20.0014	2-51B-2-0-436E-DE104	51B	08/28/13	CLR	N	N	N	PT-13-413

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.C3.20.0018	2-51A-3-0-437B-H70	51A	10/31/13	CLR	N	N	N	PT-13-435
O2.C4.40.0001	2-MS-103-STUD	01A	10/25/13	CLR	N	N	N	UT-13-1164 (Page 1)
		01A	10/25/13	CLR	N	N	N	UT-13-1164 (Page 2)
O2.C5.11.0015	2LP-148-93	53A	08/20/13	CLR	N	N	N	UT-13-1098 (Page 1)
		53A	08/20/13	CLR	N	N	N	UT-13-1098 (Page 2)
O2.C5.11.0016	2LP-148-94	53A	08/20/13	CLR	N	N	N	UT-13-1099 (Page 1)
		53A	08/20/13	CLR	N	N	N	UT-13-1099 (Page 2)
O2.C5.11.0060	2LP-217-13	53A	10/24/13	CLR	N	N	N	UT-13-1161 (Page 1)
		53A	10/24/13	CLR	N	N	N	UT-13-1161 (Page 2)
O2.C5.11.0061	2LP-217-14	53A	10/24/13	CLR	Y	N	N	UT-13-1166 (Page 1) Percent of coverage > 90%. No Relief Request required.
		53A	10/24/13	CLR	Y	N	N	UT-13-1166 (Page 2) Percent of coverage > 90%. No Relief Request required.
		53A	10/24/13	CLR	Y	N	N	UT-13-1166 (Page 3) Percent of coverage > 90%. No Relief Request required.
		53A	10/24/13	CLR	Y	N	N	UT-13-1166 (Page 4) Percent of coverage > 90%. No Relief Request required.
O2.C5.11.0062	2LP-217-18	53A	10/24/13	CLR	N	N	N	UT-13-1167 (Page 1)

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.C5.11.0062	2LP-217-18	53A	10/24/13	CLR	N	N	N	UT-13-1167 (Page 2)
O2.C5.11.0063	2LP-217-19	53A	10/24/13	CLR	N	N	N	UT-13-1168 (Page 1)
		53A	10/24/13	CLR	N	N	N	UT-13-1168 (Page 2)
O2.C5.11.0065	2LP-217-4	53A	10/24/13	CLR	N	N	N	UT-13-1159 (Page 1)
		53A	10/24/13	CLR	N	N	N	UT-13-1159 (Page 2)
O2.C5.11.0066	2LP-217-5	53A	10/24/13	CLR	N	N	N	UT-13-1160 (Page 1)
		53A	10/24/13	CLR	N	N	N	UT-13-1160 (Page 2)
O2.C5.21.0011	2-51A-17-48	51A	08/27/13	CLR	Y	N	Y	UT-13-1104 (Page 1) Percent of coverage < 90% Relief Request required. Reference PIP O-14-00547.
		51A	08/27/13	CLR	Y	N	Y	UT-13-1104 (Page 2) Percent of coverage < 90% Relief Request required. Reference PIP O-14-00547.
		51A	08/27/13	CLR	Y	N	Y	UT-13-1104 (Page 3) Percent of coverage < 90% Relief Request required. Reference PIP O-14-00547.
O2.C5.21.0015	2-51A-17-136	51A	08/28/13	CLR	N	N	N	UT-13-1108
O2.C5.21.0043	2-51A-17-82	51A	08/27/13	CLR	Y	N	N	UT-13-1103 (Page 1) Percent of coverage > 90%. No Relief Request required.
		51A	08/27/13	CLR	Y	N	N	UT-13-1103 (Page 2) Percent of coverage > 90%. No Relief Request required.



Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
02.C5.21.0043	2-51A-17-82	51A	08/27/13	CLR	Y	N	N	UT-13-1103 (Page 3) Percent of coverage > 90%. No Relief Request required.
02.C5.21.0044	2-51A-17-83	51A	08/27/13	CLR	N	N	N	UT-13-1102 (Page 1)
		51A	08/27/13	CLR	N	N	N	UT-13-1102 (Page 2)
02.C5.21.0046	2-51A-17-103	51A	08/29/13	CLR	N	N	N	UT-13-1110
02.C5.21.0048	2HP-369-167	51A	08/28/13	CLR	N	N	N	UT-13-1109 (Page 1)
		51A	08/28/13	CLR	N	N	N	UT-13-1109 (Page 2)
02.C5.21.0429	2HP-219-8	51A	08/22/13	CLR	N	N	N	PT-13-409
		51A	08/22/13	CLR	N	N	N	UT-13-1100 (Page 1)
		51A	08/22/13	CLR	N	N	N	UT-13-1100 (Page 2)
		51A	08/22/13	CLR	N	N	N	UT-13-1100 (Page 3)
02.C5.21.0590	2-51A-17-107	51A	08/29/13	CLR	N	N	N	PT-13-414
		51A	08/29/13	CLR	N	N	N	UT-13-1111 (Page 1)
		51A	08/29/13	CLR	N	N	N	UT-13-1111 (Page 2)
02.C5.21.0636	2-51A-31-4	51A	10/16/13	CLR	N	N	N	PT-13-415
		51A	10/16/13	CLR	N	N	N	UT-13-1112 (Page 1)

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.C5.21.0636	2-51A-31-4	51A	10/16/13	CLR	N	N	N	UT-13-1112 (Page 2)
		51A	10/16/13	CLR	N	N	N	UT-13-1112 (Page 3)
O2.C5.21.0645	2HP-227-9	51A	08/27/13	CLR	N	N	N	PT-13-418
		51A	08/29/13	CLR	N	N	N	UT-13-1155 (Page 1)
		51A	08/28/13	CLR	N	N	N	UT-13-1155 (Page 2)
		51A	08/29/13	CLR	N	N	N	UT-13-1155 (Page 3)
		51A	08/28/13	CLR	N	N	N	UT-13-1155 (Page 4)
		51A	08/29/13	CLR	N	N	N	UT-13-1155 (Page 5)
		51A	08/28/13	CLR	N	N	N	UT-13-1155 (Page 6)
O2.C5.21.0709	2-51A-17-135	51A	08/28/13	CLR	N	N	N	PT-13-412
		51A	08/28/13	CLR	N	N	N	UT-13-1107 (Page 1)
		51A	08/28/13	CLR	N	N	N	UT-13-1107 (Page 2)
O2.C5.21.0714	2-51A-17-88	51A	08/27/13	CLR	N	N	N	PT-13-411
		51A	08/27/13	CLR	N	N	N	UT-13-1105 (Page 1)
		51A	08/27/13	CLR	N	N	N	UT-13-1105 (Page 2)
		51A	08/27/13	CLR	N	N	N	UT-13-1105 (Page 3)

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.C5.21.0715	2-51A-17-87	51A	08/27/13	CLR	N	N	N	PT-13-410
		51A	08/27/13	CLR	N	N	N	UT-13-1106 (Page 1)
		51A	08/27/13	CLR	N	N	N	UT-13-1106 (Page 2)
		51A	08/27/13	CLR	N	N	N	UT-13-1106 (Page 3)
O2.C5.51.0003	2-MS8A-B	01A	10/24/13	CLR	N	Y	N	UT-13-1162
O2.C5.51.0013	2MS-85-6	01A	10/26/13	CLR	N	N	N	UT-13-1165
O2.C5.51.0019	2FDW-225-15	03	10/24/13	CLR	N	Y	N	UT-13-1163
O2.C5.51.0039	2LPS-606-83	14B	08/21/13	CLR	N	N	N	UT-13-1096
O2.C5.51.0040	2LPS-606-86	14B	08/21/13	CLR	N	N	N	UT-13-1097
O2.C5.51.0041	2LPS-606-87	14B	08/22/13	CLR	N	N	N	UT-13-1101
O2.C5.51.0048	2-20B-21-17-11	20B	10/23/13	CLR	N	N	N	UT-13-1157
O2.C5.51.0049	2-20B-21-17-14	20B	10/23/13	CLR	N	N	N	UT-13-1158
O2.C5.51.0050	2-14-238-17	14	10/31/13	CLR	N	N	N	UT-13-1180
O2.C5.51.0051	2-14-238-18	14	10/31/13	CLR	N	N	N	UT-13-1181
O2.D1.20.0002	2-01A-1-0-1403C-R26	01A	10/16/13	CLR	N	N	N	VT-13-1154

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.D1.20.0005	2-03A-1-0-1439C-H9	03A	08/20/13	CLR	N	N	N	VT-13-1115
O2.D1.20.0010	2-03A-1-0-1400A-H89	03A	10/03/13	CLR	N	N	N	VT-13-1128
O2.D1.20.0012	2-03A-1-0-1437A-H5	03A	10/27/13	CLR	N	N	N	VT-13-1192
O2.D1.20.0016	2-08-1-0-1400A-H1	08	10/03/13	CLR	N	N	N	VT-13-1127
O2.D1.20.0019	2-14B-0-1439B-DE188	14B	08/20/13	CLR	N	N	N	VT-13-1116
O2.F1.10.0003	2-51A-0-1479A-H5B	51A	10/15/13	CLR	N	N	N	VT-13-1146
O2.F1.10.0008	2-59-0-1478A-H28	59	10/15/13	CLR	N	N	N	VT-13-1147
O2.F1.11.0010	2-59-0-1478D-H6406	59	10/15/13	CLR	N	N	N	VT-13-1148
O2.F1.12.0007	2-53-0-1478A-H3	53	10/23/13	CLR	N	N	N	VT-13-1182
O2.F1.20.0003	2-01A-0-1481A-H4B	01A	10/19/13	CLR	N	N	N	VT-13-1176
O2.F1.20.0011	2-14B-0-1439A-DE195	14B	08/29/13	CLR	N	N	N	VT-13-1117
O2.F1.20.0012	2-14-1478F-H6095	14	10/19/13	CLR	N	N	N	VT-13-1175
O2.F1.20.0016	2-51B-2-0-436E-DE104	51B	08/29/13	CLR	N	N	N	VT-13-1118
O2.F1.20.0017	2-51A-6-0-435B-DE002	51A	09/19/13	CLR	N	N	N	VT-13-1185

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.F1.20.0027	2-51A-2-0-1439C-H18	51A	08/21/13	CLR	N	N	N	VT-13-1111
O2.F1.20.0031	2-51B-436J-DE057	51B	10/27/13	CLR	N	N	N	VT-13-1190
O2.F1.20.0043	2-53B-438C-H5501	53B	09/05/13	CLR	N	N	N	VT-13-1120
O2.F1.20.0045	2-53B-5-0-1439C-H35	53B	08/21/13	CLR	N	N	N	VT-13-1110
O2.F1.20.0046	2-53B-5-0-1444-R13	53B	09/19/13	CLR	N	N	N	VT-13-1133
O2.F1.21.0002	2-03A-1-0-1439A-DE037	03A	08/21/13	CLR	N	N	N	VT-13-1108
O2.F1.21.0009	2-14B-0-1479A-H5F	14B	10/25/13	REC	N	N	N	VT-13-1184  Support acceptable for service per Civil Engineering Report. Reference PIP O-13-12075.
O2.F1.21.0018	2-51A-0-1439B-H173	51A	08/21/13	CLR	N	N	N	VT-13-1119
O2.F1.21.0019	2-51A-1-0-435B-SR52	51A	09/26/13	CLR	N	N	N	VT-13-1136
O2.F1.21.0028	2-53B-0-435B-DE051	53B	09/10/13	CLR	N	N	N	VT-13-1121
O2.F1.22.0005	2-01A-0-1481A-H6B	01A	10/18/13	CLR	N	N	N	VT-13-1140
O2.F1.22.0012	2-51A-3-0-437B-H70	51A	10/27/13	CLR	N	N	N	VT-13-1191
O2.F1.22.0015	2-51A-2-0-1439C-H17	51A	08/21/13	CLR	N	N	N	VT-13-1109
O2.F1.22.0020	2-53B-5-0-435B-DE057	53B	09/10/13	CLR	N	N	N	VT-13-1126

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.F1.22.0027	2-56-2-0-438C-H16	56	09/05/13	CLR	N	N	N	VT-13-1122
O2.F1.30.0003	2-01A-0-1403D-DE017	01A	10/14/13	CLR	N	N	N	VT-13-1151
O2.F1.30.0006	2-03A-1-0-1439B-H13	03A	08/21/13	CLR	N	N	N	VT-13-1112
O2.F1.30.0009	2-03A-1-0-1400B-H41	03A	10/03/13	CLR	N	N	N	VT-13-1131
O2.F1.30.0010	2-03A-1-0-1437A-H5	03A	10/27/13	CLR	N	N	N	VT-13-1188
O2.F1.30.0017	2-03A-1401B-DE019	03A	09/25/13	CLR	N	N	N	VT-13-1132
O2.F1.30.0025	2-07A-6-0-1400A-H66	07A	10/03/13	CLR	N	N	N	VT-13-1129
O2.F1.30.0031	2-08-1400A-H5	08	10/16/13	CLR	N	N	N	VT-13-1143
O2.F1.30.0039	2-14B-1437A-SR51	14B	10/18/13	CLR	N	N	N	VT-13-1141
O2.F1.30.0040	2-14B-0-1439B-DE188	14B	08/20/13	CLR	N	N	N	VT-13-1114
O2.F1.30.0043	2-57-0-1481A-H6	57	10/18/13	CLR	N	N	N	VT-13-1142
O2.F1.31.0001	2-01A-1-0-1403C-R26	01A	10/16/13	REC	N	N	N	VT-13-1153 Support acceptable for service per Civil Engineering Report.Reference PIP O-13-11463.
O2.F1.31.0006	2-03A-1-0-1401B-SR7	03A	09/25/13	CLR	N	N	N	VT-13-1134

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.F1.31.0008	2-03A-1-0-1400A-H89	03A	10/03/13	CLR	N	N	N	VT-13-1135
O2.F1.31.0012	2-03A-1-0-1439C-H9	03A	08/20/13	CLR	N	N	N	VT-13-1113
O2.F1.31.0016	2-08-1401B-H11	08	10/14/13	CLR	N	N	N	VT-13-1149
O2.F1.32.0007	2-03A-1-0-1401B-SR101PO	03A	01/29/14	REC	N	N	N	VT-13-1138 Support acceptable for service per Civil Engineering Report. Reference PIP O-13-10464.
O2.F1.32.0010	2-08-1-0-1400A-H1	08	10/03/13	CLR	N	N	N	VT-13-1130
O2.F1.40.0001	2-RPV-WR36	50	10/13/13	CLR	Y	N	N	VT-13-1180 Percent of Coverage <100%. Relief required reference PIP O-14-00547.
O2.F1.40.0007	2-BWS-TANK	53B	10/08/13	REC	N	N	N	VT-13-1139 Support acceptable for service per Civil Engineering Report. Reference PIP O-13-11253.
O2.F1.40.0015	2-RBS-PU-B	54A	09/10/13	CLR	N	N	N	VT-13-1123
O2.F1.40.0016	2-SSF-AUX-SW-PU	13	09/05/13	CLR	N	N	N	VT-13-1124
O2.F1.40.0022	2-RCP-SS-FTR-A		10/27/13	CLR	N	N	N	VT-13-1189
O2.F1.40.0023	2-ESVP-A		09/05/13	CLR	N	N	N	VT-13-1125
O2.F1.40.0028	2-50-RCPM-2B2-SS2	50	10/22/13	CLR	N	N	N	VT-13-1179

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G12.2.0001	2-RPV-WR53	50		CLR	N	N	N	Areva 51-9213066 Inspection same as O2.B5.10.0001. See Areva Report 51-9213066 for results.
O2.G12.2.0002	2-RPV-WR53A	50		CLR	N	N	N	Areva 51-9213066 Inspection same as O2.B5.10.0002. See Areva Report 51-9213066 for results.
O2.G2.1.0001	2-PDB1-46	50	10/20/13	CLR	N	N	N	UT-13-1134 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1134 (Page 2)
O2.G2.1.0002	2-PDA2-46	50	10/20/13	CLR	N	N	N	UT-13-1132 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1132 (Page 2)
O2.G2.1.0003	2-PDA1-46	50	10/20/13	CLR	N	N	N	UT-13-1133 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1133 (Page 2)
O2.G2.1.0004	2-PDB2-46	50	10/20/13	CLR	N	N	N	UT-13-1135 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1135 (Page 2)
O2.G2.1.0005	2RC-204-29	50	10/20/13	CLR	N	N	N	UT-13-1151 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1151 (Page 2)
		50	10/20/13	CLR	N	N	N	UT-13-1151 (Page 3)
		50	10/20/13	CLR	N	N	N	UT-13-1151 (Page 4)
		50	10/20/13	CLR	N	N	N	UT-13-1151 (Page 5)



Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.G2.1.0006	2RC-203-22	50	10/20/13	CLR	N	N	N	UT-13-1152 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1152 (Page 2)
		50	10/20/13	CLR	N	N	N	UT-13-1152 (Page 3)
		50	10/20/13	CLR	N	N	N	UT-13-1152 (Page 4)
		50	10/20/13	CLR	N	N	N	UT-13-1152 (Page 5)
O2.G2.1.0007	2-PDB2-11	50	10/20/13	CLR	N	N	N	UT-13-1153 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1153 (Page 2)
		50	10/20/13	CLR	N	N	N	UT-13-1153 (Page 3)
		50	10/20/13	CLR	N	N	N	UT-13-1153 (Page 4)
		50	10/20/13	CLR	N	N	N	UT-13-1153 (Page 5)
		50	10/20/13	CLR	N	N	N	UT-13-1153 (Page 6)
O2.G2.1.0008	2RC-202-16	50	10/20/13	CLR	N	N	N	UT-13-1154 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1154 (Page 2)
		50	10/20/13	CLR	N	N	N	UT-13-1154 (Page 3)
		50	10/20/13	CLR	N	N	N	UT-13-1154 (Page 4)
		50	10/20/13	CLR	N	N	N	UT-13-1154 (Page 5)
O2.G2.1.0009	2-PDB1-47	50	10/20/13	CLR	N	N	N	UT-13-1147 (Page 1)

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G2.1.0009	2-PDB1-47	50	10/20/13	CLR	N	N	N	UT-13-1147 (Page 2)
O2.G2.1.0010	2-PDB2-47	50	10/20/13	CLR	N	N	N	UT-13-1148 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1148 (Page 2)
		50	10/20/13	CLR	N	N	N	UT-13-1148 (Page 3)
O2.G2.1.0011	2-PDA1-47	50	10/20/13	CLR	N	N	N	UT-13-1149 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1149 (Page 2)
O2.G2.1.0012	2-PDA2-47	50	10/20/13	CLR	N	N	N	UT-13-1150 (Page 1)
		50	10/20/13	CLR	N	N	N	UT-13-1150 (Page 2)
O2.G2.1.0013	2RC-204-37	50	10/17/13	CLR	Y	N	N	UT-13-1119 No Relief Request required for augmented exam.
O2.G2.1.0014	2RC-202-17	50	10/20/13	CLR	Y	N	N	UT-13-1136 No Relief Request required for augmented exam.
O2.G2.1.0015	2RC-203-32	50	10/18/13	CLR	Y	N	N	UT-13-1129 No Relief Request required for augmented exam.
O2.G2.1.0016	2RC-205-1	50	10/20/13	CLR	Y	N	N	UT-13-1146 No Relief Request required for augmented exam.
O2.G2.1.0017	2RC-203-3	50	10/18/13	CLR	Y	N	N	UT-13-1130 No Relief Request required for augmented exam.

- Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.G2.1.0018	2RC-202-19	50	10/20/13	CLR	Y	N	N	UT-13-1137 No Relief Request required for augmented exam.
O2.G2.1.0019	2RC-204-20	50	10/17/13	CLR	Y	N	N	UT-13-1142 No Relief Request required for augmented exam.
O2.G2.1.0020	2RC-205-3	50	10/20/13	CLR	Y	N	N	UT-13-1143 No Relief Request required for augmented exam.
O2.G2.1.0021	2A2 THERM-SLEEVE	50	10/20/13	CLR	N	N	N	RT-NA
O2.G2.1.0022	2B1 THERM-SLEEVE	50	10/27/13	CLR	N	N	N	RT-NA
O2.G2.1.0023	2A1 THERM-SLEEVE	50	10/20/13	CLR	N	N	N	N/A
		50	10/20/13	ACCEPT	N			RT-NA
O2.G2.1.0024	2B2 THERM-SLEEVE	50	10/27/13	CLR	N	N	N	RT-NA
O2.G4.1.0001	2RC-202-17	51A	10/20/13	CLR	N	N	N	UT-13-1138
O2.G4.1.0002	2RC-202-19	51A	10/20/13	CLR	N	N	N	UT-13-1139
O2.G4.1.0003	2RC-205-1	50	10/20/13	CLR	Y	N	N	UT-13-1144 No Relief Request required for augmented exam.
O2.G4.1.0004	2RC-205-3	51A	10/20/13	CLR	Y	N	N	UT-13-1145 No Relief Request required for augmented exam.

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.G4.1.0005	2HP-218-18	51A	10/20/13	CLR	N	N	N	UT-13-1140
O2.G4.1.0006	2HP-214-13	51A	10/17/13	CLR	N	N	N	UT-13-1113
O2.G4.1.0007	2HP-214-15	51A	10/17/13	CLR	Y	N	N	UT-13-1114 No Relief Request required for augmented exam.
O2.G4.1.0012	2HP-214-14	51A	10/17/13	CLR	N	N	N	UT-13-1115
O2.G4.1.0013	2HP-216-7	51A	10/17/13	CLR	N	N	N	UT-13-1116
O2.G4.1.0014	2HP-216-8	51A	10/17/13	CLR	N	N	N	UT-13-1117
O2.G4.1.0015	2HP-216-9	51A	10/17/13	CLR	Y	N	N	UT-13-1118 No Relief Request required for augmented exam.
O2.G4.1.0016	2HP-217-10	51A	10/17/13	CLR	Y	N	N	UT-13-1120 No Relief Request required for augmented exam.
O2.G4.1.0017	2HP-217-11	51A	10/17/13	CLR	Y	N	N	UT-13-1121 No Relief Request required for augmented exam.
O2.G4.1.0018	2HP-217-12	51A	10/17/13	CLR	Y	N	N	UT-13-1122 No Relief Request required for augmented exam.
O2.G4.1.0019	2HP-218-20	51A	10/20/13	CLR	N	N	N	UT-13-1123
O2.G4.1.0020	2HP-218-21	51A	10/20/13	CLR	N	N	N	UT-13-1141

Examination Results for 2EOC26

Summary No	Component ID	System	Insp Date	Insp Status	Insp Limited	Geo Ref	RFR	Comment
O2.G4.1.0021	2HP-218-22	51A	10/20/13	CLR	Y	N	N	UT-13-1126 No Relief Request required for augmented exam.
O2.G4.1.0022	2RC-203-32	50	10/18/13	CLR	Y	N	N	UT-13-1127 No Relief Request required for augmented exam.
O2.G4.1.0023	2RC-203-3	50	10/18/13	CLR	Y	N	N	UT-13-1128 No Relief Request required for augmented exam.
O2.G4.1.0024	2RC-204-37	50	10/17/13	CLR	N	N	N	UT-13-1124
O2.G4.1.0025	2RC-204-20	50	10/17/13	CLR	N	N	N	UT-13-1125
O2.H2.1.0008	2-PIA2-12	50	10/19/13	CLR	N	N	N	PT-13-422
O2.H4.1.0041	2-01A-0-1401B-R10	01A	11/04/13	CLR	N	N	N	MT-13-133
		01A	10/16/13	CLR	N	N	N	VT-13-1144
O2.H4.1.0042	2-01A-0-1401B-H19	01A	10/14/13	REC	N	N	N	VT-13-1155 Support acceptable for service per Civil Engineering Report. Reference PIP O-13-11318.
O2.H4.1.0043	2-01A-0-1401B-H20	01A	10/14/13	CLR	N	N	N	VT-13-1150
O2.H4.1.0045	2-01A-0-1401B-R12	01A	11/07/13	REC	N	N	N	VT-13-1193 Support acceptable for service per Civil Engineering Report. Reference PIP O-13-12905.

Examination Results for 2EOC26

<i>Summary No</i>	<i>Component ID</i>	<i>System</i>	<i>Insp Date</i>	<i>Insp Status</i>	<i>Insp Limited</i>	<i>Geo Ref</i>	<i>RFR</i>	<i>Comment</i>
O2.H4.1.0046	2-01A-0-1401B-H22	01A	10/14/13	REC	N	N	N	VT-13-1156  Support acceptable for service per Civil Engineering Report. Reference PIP O-13-11316.
O2.H4.1.0048	2-01A-0-1401B-R13	01A	10/16/13	CLR	N	N	N	VT-13-1145
O2.H6.1.0001	2-PEN-25-WHIP	01A	10/25/13	CLR	N	N	N	VT-13-1186
O2.H6.1.0002	2-PEN-27-WHIP	01A	10/25/13	CLR	N	N	N	VT-13-1187

## **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 in the NIS-2 forms in this section. Attachment A lists the NIS-2 forms that were completed during 2EOC26 and items completed during 2EOC25 that were not included in that report.

There were work orders completed during 2EOC26 for which the NIS-2 forms were not generated in time to be submitted in this report. PIP O-14-00180 was initiated to document the work orders that will not have NIS-2 forms included in this report. These NIS-2 forms will be included in the next report.

The individual work order 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, Pre-service Inspection (PSI) Examinations were performed on ISI Class 1 and ISI Class 2 items during this report period. PSI examination data for items examined during 2EOC26 are filed with the Work Order.

**NIS 2 List for 2EOC26**

<b>Work Order #</b>	<b>Class</b>
1997784-01	1
2036760	1
2078559-10	1
1893275-01	2
1948274	2
2013163	2
2013640	2
20127787-01	2
2036763	2
2052486	2
2070140	2
2070142	2
2077742	2
2078755-01	2
2078907-01	2
2078961-01	2

**NIS 2 List for 2EOC25**

<b>Work Order #</b>	<b>Class</b>
1923035-01	1
1963065	1
2009996	1
1925037	2
1926635	2
1944543-03	2
1963989-01	2
1983659	2
2009992	2





# 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
01997784	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed *Bill Foster* Bill Foster, Engineer III Date 1/9/2012

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period \* 10-19-2011 to 2-15-2014, 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.

*Mark E. Zurbuch* Commissions 13048, 201, A, N, I, 15  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/15/2014 **MARK E. ZURBUCH**

\* EC 106 789

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

As required by the provisions of the ASME Code Section XI

		<b>Work Order Number</b> 2078559-10	<b>Sheet</b> 1 of 2				
<b>1. Owner</b> Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006	<b>2. Plant</b> Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672		<b>Unit</b> ONS - 2  <b>Date</b> 12/8/2013				
<b>3. Work Performed by</b>  Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006		<b>Type Code Symbol Stamp</b> Not Applicable  <b>Authorization Number</b> Not Applicable  <b>Expiration Date</b> Not Applicable					
<b>4. Identification of System, ASME Class</b> Reactor Coolant System, ASME Class 1							
<b>5.</b> (a) Applicable Construction Code: <u>USAS B31.7</u> 19 <u>69</u> Edition, <u>No</u> Addenda, <u>No</u> Code Case (b) Applicable Edition Section XI Utilized For R/R Activity 19 <u>98</u> Edition, <u>2000</u> Addenda. (c) Applicable Section XI Code Case(s) <u>None</u>							
<b>6. Identification of Components</b>							
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)
6 Standard Incore Detectors	Framatome	UNK	UNK	None	UNK	Removed	YES
10 Qualified Incore Detectors	Framatome	UNK	UNK	None	UNK	Removed	YES
6 Standard Incore Detectors	Areva	LRFICD-1728 thru 1739, 1763, 1764, 1739	UNK	See Remarks	UNK	Installed	YES
10 Qualified Incore Detectors	Areva	LRQICD-5249 thru 5256 and 5184 thru 5201	UNK	See Remarks	UNK	Installed	YES
16 Nut Rings	Areva	None	None	See Remarks	UNK	Installed	NO
<b>7. Description of Work</b> 16 Incores and nutrings replaced as part of normal PM.							
<b>8. Test Conducted</b> <input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input checked="" type="checkbox"/> Exempt <input type="checkbox"/> Other _____ Pressure _____ PSI                      Test Temperature _____ °F							

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
2078559-10	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① (16) Nuttings: UTC# 2005131, 1994926, 1976171\*

(10) Qualified Incore Detectors: UTC# 2005132, 1994929\*

(6) Standard Incore Detectors: UTC# 1994930, 1995794, 2026871

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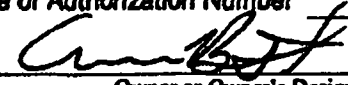
⑩

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_


Signed  Aaron Best, Engineer Date 12/8/2013

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 12.2.13 to 2/18/14, 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 130418, 201, A, N, I, E, S  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18/14 **MARK E. ZURBUCH**

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>1893275-01</b>	Sheet <b>1 of 2</b>
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1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>4/29/2013</b>

3. Work Performed by  <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Low Pressure Injection, ASME Class 2**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

8. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2LP-95	Crane Aloyco	UNK	UNK	See Remarks (1)	UNK	Corrected	NO

7. Description of Work  
**Replaced body to bonnet bolting with new**

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
1893275-01	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replaced (32) 5/8" Nuts, UTC#2001769, and (2) 5/8" studs, UTC#1969882 and (14) 5/8" studs, UTC#1986001 on body/bonnet joint

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed *James R. Kiser*, James R Kiser, Sr. Engineer Date 4/29/2013  
 Owner or Owner's Designee. Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 4-17-13 to 12-19-13, 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.

*Mark E. Zurbuch*  
 Inspector's Signature

Commissions 13048, 201, A, N, I, IS  
 National Board, State, Province, and Endorsements

Date 12-19-13 **MARK E. ZURBUCH**

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>01948274</b>	Sheet <b>1 of 2</b>
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1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>11/22/2011</b>

3. Work Performed by  <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Low Pressure service Water (LPSW), ASME Class 2**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
(1) 14B-0-1480A-H24A	DEC	None	None	None	Unk	Corrected	NO
(2) 14B-0-1480A-H25A	DEC	None	None	None	Unk	Corrected	NO
(3) 14B-0-1480A-H26A	DEC	None	None	None	Unk	Corrected	NO
(4) 14B-0-1480A-H27A	DEC	None	None	None	Unk	Corrected	NO
(5) 14B-0-1480A-H28A	DEC	None	None	None	Unk	Corrected	NO
(6) 14B-0-1480A-H29A	DEC	None	None	None	Unk	Corrected	NO
(7) 14B-0-1480A-H30A	DEC	None	None	None	Unk	Corrected	NO
(8) 14B-0-1480A-H37A	DEC	None	None	None	Unk	Corrected	NO
(9) Piping	DEC	None	None	None	2011	Installed	NO

7. Description of Work  
**EC102464 replaced carbon steel pipe with stainless pipe and modified supports.**

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
01948274	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

- ① Support 14B-0-1480A-H24A, removed 1/2" diameter u-bolt. Replaced 1/2" diameter u-bolt.
- ① Support 14B-0-1480A-H25A, removed 1/2" diameter u-bolt. Replaced 1/2" diameter u-bolt. Installed 1/8" plate.
- ① Support 14B-0-1480A-H26A, removed 1/2" diameter u-bolt. Replaced 1/2" diameter u-bolt. Installed 1/4" plate & 1/2" washers.
- ① Support 14B-0-1480A-H27A, removed 1/2" diameter u-bolt. Replaced 1/2" diameter u-bolt. Installed 1/2" plate.
- ① Support 14B-0-1480A-H28A, removed 1/2" diameter u-bolt. Replaced 1/2" diameter u-bolt. Installed 1/4" plate & 1/2" washers.
- ① Support 14B-0-1480A-H29A, removed 1/2" diameter u-bolt. Replaced 1/2" diameter u-bolt. Installed 1/4" plate & 1/2" washers.
- ① Support 14B-0-1480A-H30A, removed 1/2" diameter u-bolt. Replaced 1/2" diameter u-bolt.
- ① Support 14B-0-1480A-H37A, removed 1/2" diameter u-bolt. Replaced 1/2" diameter u-bolt. Installed 1/2" plate.
- ① Installed 1/2", 1", 3" and 4" piping.

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed David Hubbard David Hubbard/Technical Specialist II Date 11/22/2011  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 9-20-11 to 2-18-14, 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.

Mark E. Zurbuch Inspector's Signature Commissions 13048, 201, A, N.E. I.S.  
National Board, State, Province, and Endorsements

Date 2/18/14 **MARK E. ZURBUCH**



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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>2013163</b>	Sheet <b>1 of 2</b>
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1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>10/25/2013</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**HPI, ASME Class 2**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2HP-14	Fisher	unk	unk	HT 18867	unk	Removed	NO
2HP-14	Fisher	unk	unk	UTC - 961612 - PN - 3V4026X0042 -	unk	Installed	NO

7. Description of Work  
**Replaced stem and plug assembly due to slight damage caused by FME in valve.**

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
2013163	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replaced the 2.5" stem and plug assembly for Fisher 3 way valve, Cat Id 332354, UTC 961612-

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed John Ten... Date 12/27/13  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5.2.13 to 2/18/14, 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.

Mark E. Zurbuch Commissions 13048, 2014, N.I.T.I.S.  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18/14 **MARK E. ZURBUCH**

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>2013640</b>	Sheet <b>1 of 2</b>
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1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>11/6/2013</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**High Pressure Injection, ASME Class 2**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2HP-12	Aloyco/Walworth	unk	unk	unk	unk	Corrected	NO

7. Description of Work  
**Replaced Body to bonnet studs and nuts**

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
2013640	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

● Studs and nuts replaced, there was some minor damage to threads during disassembly of valve  
 0.5" ASME SA 193 Gr B7 valve body to bonnet studs (UTC 1914581, 1823175, 2000448) CAT ID 467112 and 0.5" Hervey Hex  
 Nuts ASME SA 194 Gr. 2H, (UTC 2008395) CAT ID 313135

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number Not Applicable Expiration Date Not Applicable

Signed John Tuma Senior Tech. Sp. II Date 11/7/13  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of South Carolina and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 9.19.13 to 12.20.13, 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.

Mark E. Zurbuch \_\_\_\_\_  
 Inspector's Signature \_\_\_\_\_  
 Commissions 13048, 2014, N.E.T.S.  
 National Board, State, Provincial, and Endorsements

Date 12.20.13 **MARK E. ZURBUCH**



**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
02127787-01	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Threaded Rod, 1/2" 13UNC-2A, Alloy Steel, ASME SA193 Gr B7, UTC# 0001919842

② Nuts, Heavy Hex, 1/2" 13UNC-2B, Carbon Steel, ASME SA194 Gr 2H, UTC# 0002008395

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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 Will Beckman Will Beckman, Engineer II Date 11/28/2013  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of South Carolina and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11.27.13 to 2/18/14, 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.

Mark E. Zurbuch Commissions 1304B, A.N.E.T.S  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18/14 **MARK E. ZURBUCH**

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>02036760</b>	Sheet <b>1 of 2</b>
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1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>11/09/2013</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Reactor Coolant, ASME Class 1**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2RC-77	Anchor Darling	F0691-1-2	2432	None	2000	Removed	YES
2RC-77	Velan	101050-3	None	UTC#1993004	Unk	Installed	YES

7. Description of Work  
**EC108007 - Replace 1/2 in. Drain Valve With A 1/2 in. Gate Valve.**

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
02036760	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed David Hubbard David Hubbard, Technical Specialist II Date 11/9/2013

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 2.6.2013 to 2.15.2014, 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.

Mark E. Zurbuch Commissions 13048, 201, A, N, E, I, S  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/15/2014



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

As required by the provisions of the ASME Code Section XI

Work Order Number 02036763	Sheet 1 of 2
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1. Owner Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2
		Date 10/31/2013

3. Work Performed by Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class  
High Pressure Injection, ASME Class 2

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or installed	ASME Code Stamped (Yes / No)
2HP-278	Unk	Unk	Unk	Unk	Unk	Removed	NO
2HP-279	Unk	Unk	Unk	Unk	Unk	Removed	NO
2HP-278	Flowserve	85BAW	1464	UTC#1078241	2005	Installed	YES
2HP-279	Flowserve	87BAW	1466	UTC#1078243	2005	Installed	YES

7. Description of Work  
EC-108038 - Replace 1-1/2 in. isolation valves 2HP-278, 2HP-279 With 1-1/2 in. Gate Valves.

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
02036763	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed David Hubbard / David Hubbard, Technical Specialist II Date 10/31/2013

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3-6-2013 to 2-15-2014, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

David Hubbard Inspector's Signature Commissions 13048, 201, A, N, I, T, S  
National Board, State, Province, and Endorsements

Date 2-15-2014

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>2052486</b>	Sheet <b>1 of 2</b>
-------------------------------------	------------------------

1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>11/18/2013</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Building Spray, ASME Class 2**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2BS-4, body to bonnet nuts	Crane	unk	unk	unk	unk	Corrected	NO
2BS-4 Body to bonnet studs	Crane	unk	unk	unk	unk	Corrected	NO

7. Description of Work  
 The potentially over stress body to bonnet studs and nuts were replaced. No damage notice on the removed studs or nuts.

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other visual leak test.  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
2052486	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replaced the body to bonnet bolting for 2BS-4 using the following materials: 32 7/8" nuts, UTC 1961095, replaced all studs using 7/8" threaded rod from UTC-2017103.

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed John Turner, John Turner, Service Tech spec Date 11/18/13  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5.29.13 to 12.20.13 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.

Mark E. Zurbuch  
Inspector's Signature Commissions 13048, 201, A, N, I, T, S  
National Board, State, Province, and Endorsements

Date 12.20.13 **MARK E. ZURBUCH**

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>02070140</b>	Sheet <b>1 of 2</b>
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1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>10/31/2013</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Feedwater, ASME Class 2**

5.  
 (a) Applicable Construction Code: ASME Section III 19 89 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Handhole #1 Stud #5.	BWC	B7 006K 980 302	207	B7	Unk	Installed	NO
Handhole #1 Stud #5	BWC	B7 006K 980 302	207	B7	Unk	Removed	NO
Handhole #1 Nut #5	BWC	unk	207	S-7	Unk	Installed	NO
Handhole #1 Nut #5	BWC	unk	207	S-7	Unk	Removed	NO

7. Description of Work  
 During removal of handholes for Steam Generator Secondary Side FOSAR work on the 2A ROTSG, one handhole stud need to be replaced due to thread galling. Stud, nut, & washer will be replaced to maintain as a set. Galling appears to be due to normal maintenance during installation and removal. The items replaced met code for pressure boundary, but threads were damaged due to normal wear and tear during the removal process

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
02070140	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① 2A SG Handhole # 1 Stud number 5 (by torque sequence) replaced with stud stock code 5205980 UTC Number 1062597

② 2A SG Handhole # 1 Nut number 5 (by torque sequence) replaced with nut stock code 5206105 UTC Number 1993777

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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 \_\_\_\_\_

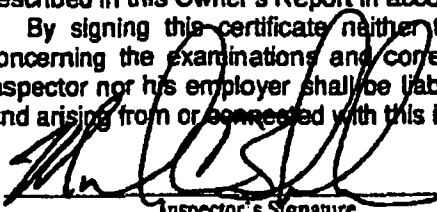
Signed  Mitch Hatley/Principal Engineer Date 10/31/2013

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-26-13 to 2/18/14, 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 13048, 201, A, N, I, E, S  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18/14 **MARK E. ZURBUCH**

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>02070142</b>	Sheet <b>1 of 2</b>
--------------------------------------	------------------------

1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>10/31/2013</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Feedwater, ASME Class 2**

5.  
 (a) Applicable Construction Code: ASME Section III 19 29 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
Inspection Port M10 Stud #4.	BWC	B7 006K 982 279	207	JB7/NM14628/9 82	Unk	Installed	NO
Inspection Port M10 Stud #4	BWC	B7 006K 980 279	207	B7	Unk	Removed	NO
Inspection Port M10 Nut #4	BWC	unk	207	S-7	Unk	Installed	NO
Inspection Port M10 Nut #4	BWC	unk	207	S-7	Unk	Removed	NO
Inspection Port M10 Diaphragm	BWC	T8K-7	207		unk	Installed	NO
Inspection Port M10 Diaphragm	BWC	G04A-1	207		unk	Removed	NO
Inspection Port R11 Diaphragm	BWC	T8K-14	207		unk	Installed	NO
Inspection Port R11 Diaphragm	BWC	G04A-4	207		unk	Removed	NO

7. Description of Work  
 During removal of handholes for Steam Generator Secondary Side FOSAR work on the 2A ROTSG, one inspection port stud needs to be replaced due to thread galling. Stud, nut, & washer will be replaced to maintain as a set. Galling appears to be due to normal maintenance during installation and removal. The items replaced met code for pressure boundary, but threads were damaged due to normal wear and tear during the removal process. The diaphragms are being replaced due to the fact that during installation, the gasket had dropped out of the gasket groove and was crushed into the diaphragm lip.

8. Test Conducted  
 Hydrostatic Pressure   
  Pneumatic   
  Nominal Operating Pressure PSI   
 Exempt   
 Other \_\_\_\_\_ °F  
 Test Temperature

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

As required by the provisions of the ASME Code Section XI

Work Order Number 02070148 <i>WLL</i>	Sheet 2 of 2
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**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**

① 2A SG Inspection Port #M10 Stud number 4 (by torque sequence) replaced with stud stock code 5549761 UTC Number 1063782

② 2A SG Inspection Port #M10 Nut number 4 (by torque sequence) replaced with nut stock code 5206104 UTC Number 1061993

③ Inspection Port #M10 Diaphragm replaced with Stock Code 5206118 UTC 1935039

④ Inspection Port #R11 Diaphragm replaced with Stock Code 5206118 UTC 1935039

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed *[Signature]* Mitch Hatley/Principal Engineer Date 10/31/2013  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 10-26-13 to 2/18/14, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions 13048, 201, AN, I, IS  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18/14 **MARK E. ZURBUCH**



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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>02077742</b>	Sheet <b>1 of 2</b>
--------------------------------------	------------------------

1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>12/11/2013</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Gaseous Waste Disposal System, ASME Class 2**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, None Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2GWD-13	ITT	UNK	UNK	See Remarks (1 & 2)	UNK	Corrected	YES

7. Description of Work  
 Work order 02077742 installed a bonnet/actuator assembly that was not a direct replacement on 2GWD-13. The replacement actuator/bonnet assembly was a set consisting of a stainless steel bonnet and an actuator with a ductile iron housing removed from 1LWD-2. The original actuator/bonnet assembly was a set consisting of a ductile iron bonnet and actuator with an aluminum housing. Reference OM 201. -0479.001 (for original 2GWD-13) and OM 249. -0235.001 (for 1LWD-2 and similar valves with item number DMV-1235). Based upon a review of the PM work order, the original body/bonnet bolting material was used, instead of the bolting material specified for the DMV-1235. EC111862 evaluated the acceptance of the actuator/bonnet assembly and the bolting.

8. Test Conducted

Hydrostatic   
  Pneumatic   
  Nominal Operating Pressure   
  Exempt   
  Other PT/2/A/0151/018  
 Pressure \_\_\_\_\_ PSI      Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number 02077742	Sheet 2 of 2
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9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Valve 2GWD-13 - replaced bonnet assembly , UTC#0002024096. Original body/bonnet bolting material was used, material is A193 Grade B7 bolting.

② Valve 2GWD-13 was NOT replaced.

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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 \_\_\_\_\_

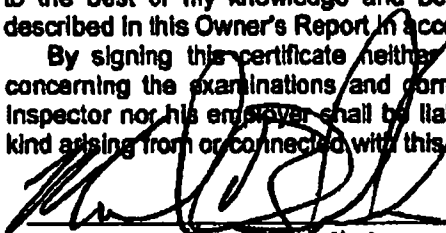
Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed Rick Burgess Rick Burgess, Sr. Technical Specialist Date 12/11/2013  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11.14.13 to 12.19.13, 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 1304B, 201, A, N, I, T, S  
National Board, State, Province, and Endorsements

Date 12.19.13 **MARK E. ZURBUCH**

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>02078755-01</b>	Sheet <b>1 of 2</b>
---	------------------------

1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>11/20/2013</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**High Pressure Injection, ASME Class 2**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2HP-31	Fisher Controls	4768610	N/A	N/A	1971	Corrected	NO

7. Description of Work  
**Stem / plug assembly replaced due to normal flow erosion with like one from stock.**

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
02078755-01	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Plug Stem assembly - Cat ID 860541, ASME SB166 N06600/COCR-A (plug), UTC #2005011. Certificate of Compliance and ASME Code Data Report attached.

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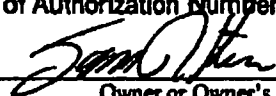
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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

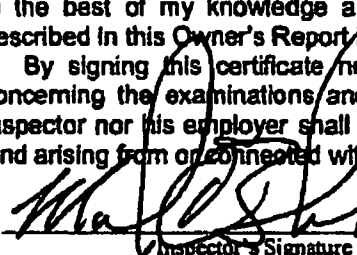
Signed  James R. Kiser, Sr. Engineer Date 11/20/2013

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 9.19.13 to 2/18/14, 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 13048, 201 A, N, F, IS  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/18/14 **MARK E. ZURBUCH**

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>02078907-01</b>	Sheet <b>1 of 2</b>
---	------------------------

1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>11/10/2013</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**High Pressure Injection, ASME Class 2**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2HP-302	Crosby	N67966-00-0001	N/A	none	1985	Corrected	YES

7. Description of Work  
**Replaced inlet body studs form stock**

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number

02078907-01

Sheet

2 of 2

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**

① Double ended studs, 1/2", 13 UNC-2A, ASME SA193 GR B7, CID: 205482, UTC #: 960819

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed *John O'Keefe, Sr. Engineer* 1 Date 11-15-13  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-10-13 to 12-20-13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]* Commissions 13048, 201, A, N, I, TS  
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-20-13



# 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
02078961-01	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

● SPINDLE, VALVE, DRAG, 2-1/2", INCONEL, ASME SB637-N07718, CID 486801, UTC# 1931100

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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 Will Beekman Will Beekman, Engineer II Date 11/14/2013  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of South Carolina and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-12-13 to 12-20-13, 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.

Mark E. Zurbuch  
Inspector's Signature      Commissioners 1504B, 201, ANI, IS  
National Board, State, Province, and Endorsements

Date 12-20-13      **MARK E. ZURBUCH**





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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
01923036 - 01	Page 2 of 2

7. Remarks (Applicable Manufacturer's Data Reports to be attached)

1) Snubber replaced due to fluid leak

### CERTIFICATION 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	<u>Donald H. Hall, Sr. Eng.</u>	Date	<u>11-9-11</u>
	Owner or Owner's Designee, Title		

### CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and State or province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in the Owner's Report during the period 11-7-11 to 10-4-2012, 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 make any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commission(s) 1304B ANTI IS 201  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-4-12



**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
01963065	1 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① 2B SG Primary Handhole Nut: Replaced original nut with replacement nut. Stock Code 5577971 UTC Number 1910369.

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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 \_\_\_\_\_

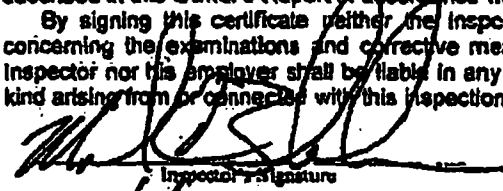
Signed  Mitch Hatley/Principal Engineer Date 11-7-11 704-787-2383

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by USB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11/7/2011 to 11/6/2012 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 13048, 201, A, N, I  
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/4/2012

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>02009996</b>	Sheet <b>1 of 2</b>
--------------------------------------	------------------------

1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>11/21/2011</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Reactor Coolant, ASME Class I**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2RC-78	Velan	Unk	Unk	Unk	Unk	Removed	NO
2RC-78	Flowserve	59AXR	1185	UTC 1067004	2003	Installed	YES
Piping	DECo	None	None	None	2011	Installed	NO

7. Description of Work  
**EC107149 - Replace 3/4" Class AC, drain valve 2RC-78 and associated piping**

8. Test Conducted

Hydrostatic   
  Pneumatic   
  Nominal Operating Pressure   
  Exempt   
  Other

Pressure \_\_\_\_\_ PSI      Test Temperature \_\_\_\_\_ °F

*(R. B.) Foster / JCL*

# 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
02009996	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed William Foster \_\_\_\_\_ Bill Foster, Engineer III Date \_\_\_\_\_ 11/21/2011 \_\_\_\_\_

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of South Carolina and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11-8-11 to 12-12-11, 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.

William Foster \_\_\_\_\_ Commissions 13048, 201, A, N, I \_\_\_\_\_  
Inspector Signature National Board, State, Province, and Endorsements

Date 12-12-11 \_\_\_\_\_

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>01925037</b>	Sheet <b>1 of 2</b>
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1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>1/9/2012</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Steam Generator Flush Drain, ASME Class 2**

5. (a) Applicable Construction Code: USAS B31.7 19 67 Edition, No Addenda, None Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) n/a

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)
S/R 04A-0-1478A-H5B	DUKE	N/A	N/A	N/A	1973	Installed	NO

7. Description of Work  
**Replaced a threaded rod (item #3) with a longer one to allow for spring can adjustment**

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number 1925037	Sheet 2 of 2
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9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① 1, threaded rod and rod eye fig. 278N, carbon steel, UTC # 0001978904 Trace: M PN#278N

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed *Amal K. G. Engineer II* Date 1/9/12  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11/27/12 to 11/27/12, 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.

*Nomay P. Ricketts-Sloster* Commissions 1B8447 NC1169 ABOK IS  
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/27/12



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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>1926635</b>	Sheet <b>1 of 2</b>
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1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>12/15/2011</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Main Steam, ASME Class 2**

5.  
 (a) Applicable Construction Code: USAS B31.1 19 67 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components							
Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2-01A-0-1401B-H10	DECo	N/A	N/A	See Remarks	1973	Corrected	NO

7. Description of Work  
**Adjusted S dimension, installed spacer bolt and nuts**

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI                      Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
1926635	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① 2 1/2" threaded rod, spacer bolt alloy steel ASME SA 193 Gr B7 UTC# 0001971602 Trace: M HT#A100413

② 4, 2/12" nuts, heavy hex, carbon std, ASTM A194 Gr 2H UTC# 0001931134 Trace: M HT#614

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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 Anna W. Bair, Engineer II Date 12/15/11  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11/24/12 to 11/24/12, 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.

11/24/12 North Carolina Nancy Chitchee Slaughter Commissions NB8447 NC1169 ABNE IS  
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/24/12

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

As required by the provisions of the ASME Code Section XI

Work Order Number 01944543 - 03	Sheet Page 1 of 2
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1. Owner Duke Energy Carolinas, LLC 525 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672-0752	Unit 2
		Date 11/9/2011

3. Work Performed By Duke Energy Carolinas, LLC 525 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class  
Reactor Coolant , ASME Class 2

5. *B31.7 RRC 1967*  
 (a) Applicable Construction Code ~~UBAS 2002~~ *1967* Edition, No Addenda No Code Case None  
 (b) Applicable Edition Section XI Utilized For RIR Activity *1967* Edition, 2002 Addenda  
 (c) Applicable Section XI Codes Cases(s) *None*

6. Identification of Components

Name of Component	Manufacturer	Manufacturer Serial Number	National Board No	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamped (Yes/No)
03-0-148B-H8B, 2 Anvil 2 1/2 x 10 Hydraulic Snubber	Anvil	38500	UNK	UTC 1690687	UNK	Installed	No
1) 03-0-148B-H8B, 2 Anvil 2 1/2 x 10 Hydraulic Snubber	Anvil	36135	UNK	N/A	UNK	Removed	No

7. Description of Work  
Snubber replaced due to sticking cylinder piston rod.

8. Test Conducted

<input type="checkbox"/> Hydrostatic	<input type="checkbox"/> Pneumatic	<input type="checkbox"/> Nominal Operating Pressure	<input checked="" type="checkbox"/> Exempt	<input type="checkbox"/> Other <u>Visual</u>
Pressure	PSI		Test Temperature	Deg. F

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

As required by the provisions of the ASME Code Section XI

Work Order Number 01944543 - 03	Sheet Page 2 of 2
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7. Remarks (Applicable Manufacturer's Data Reports to be attached)

1) Snubber replaced due to sticking cylinder piston rod.

## CERTIFICATION 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 Donald White, Sr. Eng. Date 11-9-11  
Owner or Owner's Designee, Title

## CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and State or province of North Carolina and employed by NSB CT of Hartford, Connecticut have inspected the components described in the Owner's Report during the period 11/7/11 to 2/29/12 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 make 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.

Donny Clute Commission(s) NB 8447 NJS NC 1169  
Inspector's Signature National Board, State, Province, and Endorsements  
 Date 2/29/12



# 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
1963989-01	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① Replaced (2), 3/4", 10 UNC-2B, SS, SA194 GR 8 bonnet nuts, UTC #: 1976439, Cat Id 131717

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed John Tun / Sr. Tech. SPC Date 11/8/2011  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11/27/12 to 11/27/12, 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.

Dwayne Patrick Slight Commissions NB 8447 NC1169 ABNT IS  
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/27/12

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

As required by the provisions of the ASME Code Section XI

Work Order Number <b>01983659</b>	Sheet <b>1 of 2</b>
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1. Owner <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	2. Plant <b>Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672</b>	Unit <b>ONS - 2</b>
		Date <b>7/11/2011</b>

3. Work Performed by <b>Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006</b>	Type Code Symbol Stamp <b>Not Applicable</b>
	Authorization Number <b>Not Applicable</b>
	Expiration Date <b>Not Applicable</b>

4. Identification of System, ASME Class  
**Reactor Building Hydrogen Purge System, ASME Class 2**

5.  
 (a) Applicable Construction Code: USAS B31.7 19 69 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2PR-141	Anchor Darling	EZ797-1-3	1968	UTC-1016365	1997	Installed	YES
Piping	DEC	None	None	None	2011	Installed	NO
2-67-440A-H5657	DEC	None	None	None	2011	Installed	NO
2-67-440A-H5658	DEC	None	None	None	2011	Installed	NO

7. Description of Work  
**EC106147, Provide vent path from containment to atmosphere**

8. Test Conducted

Hydrostatic   
  Pneumatic   
  Nominal Operating Pressure   
  Exempt   
  Other \_\_\_\_\_

Pressure 66 PSI   
 Test Temperature Ambient °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
01983659	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ Not Applicable \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ Not Applicable \_\_\_\_\_ Expiration Date \_\_\_\_\_ Not Applicable \_\_\_\_\_

Signed Rick Burgess Rick Burgess, Sr. Technical Specialist Date 7/11/2011  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SOUTH CAROLINA and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 5/26/11 to 1/12/13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions 13048, 201, A, N, T, I, S  
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/12/13



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

As required by the provisions of the ASME Code Section XI

Work Order Number 2009992	Sheet 1 of 2
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1. Owner Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006	2. Plant Oconee Nuclear Station 7800 Rochester Hwy Seneca, SC 29672	Unit ONS - 2
		Date 12/15/2011

3. Work Performed by Duke Energy Carolinas, LLC 526 South Church Street Charlotte, NC 28201-1006	Type Code Symbol Stamp Not Applicable
	Authorization Number Not Applicable
	Expiration Date Not Applicable

4. Identification of System, ASME Class  
Steam Generator Flush, ASME Class 2

5.  
 (a) Applicable Construction Code: USAS B31.1 19 67 Edition, No Addenda, No Code Case  
 (b) Applicable Edition Section XI Utilized For R/R Activity 19 98 Edition, 2000 Addenda.  
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial Number	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes / No)
2-04A-0-1478A-NPS-H8	DECo	N/A	N/A	See Remarks	1973	Corrected	NO

7. Description of Work  
Installed nut and tightened pipe clamp

8. Test Conducted  
 Hydrostatic     Pneumatic     Nominal Operating Pressure     Exempt     Other \_\_\_\_\_  
 Pressure \_\_\_\_\_ PSI    Test Temperature \_\_\_\_\_ °F

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

As required by the provisions of the ASME Code Section XI

Work Order Number	Sheet
2009992	2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

① 3/4" heavy hex nut on spacer bolt, UTC 1971749

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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 Shane W. G... Engineer II Date 12-15-11  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 11/24/12 to 11/24/12, 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.

Nancy Patricia Shafter Commissions NB8447 DC1169 ABNI IS  
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/24/12

## 6.0 Pressure Testing

This section contains a pressure test completion status for the examinations required during refueling outage 2EOC26 and the examinations required during the third period of the fourth ten-year interval. There was no through-wall leakage observed during any of these pressure tests.

Table 6-1 shows a completion status of pressure test zones conducted during the third period of the fourth ten-year interval. There are eleven Class 2 Zones remaining to be examined prior to the end of the interval which is July 15, 2014.

<b>Examination Category</b>	<b>Test Requirement</b>	<b>Total Examinations Required For This Period</b>	<b>Total Examinations Credited For This Period</b>	<b>Total Examinations Remaining</b>
B-P	System Leakage Test (IWB-5220)	10	10	0
C-H	System Leakage Test (IWC-5220)	51	40	11

The Class 1 (Category B-P) leakage test is required each refueling outage. Table 6-2 shows the completion status of the Class 1 (Category B-P) leakage test zones conducted during EOC26.

<b>Zone Number</b>	<b>Boundary Dwg.</b>	<b>EOC26 Completion Status</b>	<b>EOC26 VT-2 Examination Date</b>	<b>Code Case(s) Used</b>
OZ2L-1A	O-ISIL4-100A-2.1 O-ISIL4-100A-2.2 O-ISIL4-100A-2.3 O-ISIL4-101A-2.1 O-ISIL4-101A-2.4 O-ISIL4-101A-2.5 O-ISIL4-102A-2.1 O-ISIL4-102A-2.3 O-ISIL4-110A-2.1 O-ISIL4-110A-2.4	Complete	12/4/13	N-566-2
OZ2L-1AA	O-ISIL4-101A-2.4	Complete	12/4/13	N-566-2
OZ2L-1V	O-ISIL4-100A-2.2	Complete	12/4/13	N-566-2
OZ2L-1Z	O-ISIL4-101A-2.4	Complete	12/4/13	N-566-2
OZ2L-16	O-ISIL4-101A-2.4	Complete	12/4/13	N-566-2

Table 6-3 shows the completion status of the Class 2 (Category C-H) leakage tests zones required for the 3<sup>rd</sup> Inspection Period which ends 07/15/2014.

	<b>Zone Number</b>	<b>Boundary Dwg.</b>	<b>Completion Status</b>	<b>VT-2 Examination Date</b>	<b>Code Case(s) Used</b>
1	IZ2L-10	O-ISIL4-101A-2.3	Complete	10/21/11	N-566-2
2	IZ2L-11	O-ISIL4-101A-2.3	Complete	10/21/11	N/A
3	IZ2L-12	O-ISIL4-101A-2.3 O-ISIL4-101A-2.4	Not Yet Tested	N/A	N/A
4	IZ2L-13	O-ISIL4-101A-2.3	Complete	2/03/14	N-566-2
5	IZ2L-14A	O-ISIL4-101A-2.3	Complete	10/22/11	N/A
6	IZ2L-14B	O-ISIL4-101A-2.3	Complete	10/22/11	N/A
7	IZ2L-20	O-ISIL4-101A-2.3	Complete	1/27/14	N/A

	<b>Zone Number</b>	<b>Boundary Dwg.</b>	<b>Completion Status</b>	<b>VT-2 Examination Date</b>	<b>Code Case(s) Used</b>
8	IZ2L-22	O-ISIL4-101A-2.3 O-ISIL4-102A-2.1 O-ISIL4-102A-2.2 O-ISIL4-104A-1.2 O-ISIL4-106A-2.2	Not Yet Tested	N/A	N/A
9	IZ2L-24	O-ISIL4-102A-2.1 O-ISIL4-102A-2.2	Not Yet Tested	N/A	N/A
10	IZ2L-25	O-ISIL4-102A-2.1 O-ISIL4-103A-2.1	Not Yet Tested	N/A	N/A
11	IZ2L-27A	O-ISIL4-102A-2.1 O-ISIL4-102A-2.2	Complete	11/14/11	N-566-2
12	IZ2L-27B	O-ISIL4-102A-2.2	Complete	11/14/11	N-566-2
13	IZ2L-4	O-ISIL4-101A-2.1	Complete	2/03/14	N/A
14	IZ2L-41	O-ISIL4-109A-1.1	Incomplete	4/30/13	N-566-2
15	IZ2L-48	O-ISIL4-122A-2.1 O-ISIL4-122A-2.2 O-ISIL4-122A-2.3 O-ISIL4-122B-2.1 O-ISIL4-122A-2.4	Not Yet Tested	N/A	N/A
16	IZ2L-5	O-ISIL4-101A-2.1 O-ISIL4-101A-2.3	Complete	2/06/14	N/A

	<b>Zone Number</b>	<b>Boundary Dwg.</b>	<b>Completion Status</b>	<b>VT-2 Examination Date</b>	<b>Code Case(s) Used</b>
17	IZ2L-60	O-ISIL4-124A-1.1 O-ISIL4-124A-2.3 O-ISIL4-124B-2.1 O-ISIL4-124B-2.2 O-ISIL4-124B-2.4 O-ISIL4-124C-2.2 O-ISIL4-131A-2.2	Incomplete	2/21/13	N-566-2
18	OZ2L-14B	O-ISIL4-101A-2.4	Complete	10/22/11	N/A
19	OZ2L-15	O-ISIL4-101A-2.4	Complete	11/16/11	N/A
20	OZ2L-16	O-ISIL4-101A-2.4	Complete	11/15/11	N/A
21	OZ2L-17	O-ISIL4-101A-2.2	Complete	11/15/11	N/A
22	OZ2L-17B	O-ISIL4-101A-2.2	Complete	11/11/11	N/A
23	OZ2L-18	O-ISIL4-101A-2.2	Incomplete	11/28/11	N/A
24	OZ2L-19A	O-ISIL4-104A-1.1 O-ISIL4-101A-2.5	Complete	11/16/13	N/A
25	OZ2L-19B	O-ISIL4-101A-2.5	Complete	11/07/11	N/A
26	OZ2L-19C	O-ISIL4-101A-2.5	Complete	12/02/13	N/A
27	OZ2L-1A	O-ISIL4-101A-2.1 O-ISIL4-101A-2.5	Complete	12/16/11	N/A
28	OZ2L-2	O-ISIL4-101A-2.1 O-ISIL4-101A-2.4 O-ISIL4-101A-2.5	Complete	11/16/11	N/A
29	OZ2L-21	O-ISIL4-102A-2.1 O-ISIL4-102A-2.2 O-ISIL4-104A-1.2	Complete	11/14/11	N-566-2

	<b>Zone Number</b>	<b>Boundary Dwg.</b>	<b>Completion Status</b>	<b>VT-2 Examination Date</b>	<b>Code Case(s) Used</b>
30	OZ2L-23	O-ISIL4-101A-2.2 O-ISIL4-102A-2.1 O-ISIL4-102A-2.2	Complete	11/14/11	N-566-2
31	OZ2L-26	O-ISIL4-102A-2.2	Complete	11/14/11	N-566-2
32	OZ2L-28	O-ISIL4-102A-2.2	Complete	12/02/13	N-566-2
33	OZ2L-29	O-ISIL4-102A-2.2	Complete	11/14/11	N-566-2
34	OZ2L-29A	O-ISIL4-102A-2.2 O-ISIL4-102A-2.3	Complete	11/14/11	N-566-2
35	OZ2L-3	O-ISIL4-101A-2.1	Complete	11/16/11	N/A
36	OZ2L-30	O-ISIL4-102A-2.2	Complete	11/14/11	N-566-2
37	OZ2L-30A	O-ISIL4-102A-2.2 O-ISIL4-102A-2.3	Complete	11/14/11	N-566-2
38	OZ2L-31A	O-ISIL4-102A-2.3	Complete	12/04/13	N-566-2
39	OZ2L-31B	O-ISIL4-102A-2.3	Complete	12/04/13	N-566-2
40	OZ2L-31C	O-ISIL4-102A-2.3	Complete	11/14/11	N/A
41	OZ2L-39	O-ISIL4-104A-1.1	Complete	10/17/13	N-566-2
42	OZ2L-42A	O-ISIL4-110A-2.1	Complete	12/04/13	N/A
43	OZ2L-42B	O-ISIL4-110A-2.1	Complete	12/04/13	N/A
44	OZ2L-44	O-ISIL4-110A-2.1 O-ISIL4-121B-2.3 O-ISIL4-121B-2.5 O-ISIL4-121D-1.2 O-ISIL4-121D-2.1 O-ISIL4-122A-2.1 O-ISIL4-133A-2.5	Complete	12/04/13	N-566-2

	<b>Zone Number</b>	<b>Boundary Dwg.</b>	<b>Completion Status</b>	<b>VT-2 Examination Date</b>	<b>Code Case(s) Used</b>
45	OZ2L-6	O-ISIL4-101A-2.1 O-ISIL4-101A-2.2 O-ISIL4-109A-1.1 O-ISIL4-110A-2.1	Complete	11/22/13	N-566-2
46	OZ2L-6B	O-ISIL4-101A-2.2	Complete	11/22/13	N-566-2
47	OZ2L-64	O-ISIL4-124B-2.2	Incomplete	11/28/11	N/A
48	OZ2L-65	O-ISIL4-124B-2.4	Incomplete	11/28/11	N/A
49	OZ2L-7	O-ISIL4-101A-2.2 O-ISIL4-101A-2.3	Complete	11/14/11	N/A
50	OZ2L-7B	O-ISIL4-101A-2.3 O-ISIL4-102A-2.1 O-ISIL4-102A-2.2	Complete	11/14/11	N/A
51	OZ2L-9	O-ISIL4-101A-2.3 O-ISIL4-102A-2.1 O-ISIL4-102A-2.2	Incomplete	11/01/11	N-566-2