

# **INSERVICE INSPECTION REPORT**

**DUKE POWER COMPANY  
OCONEE NUCLEAR STATION  
UNIT 1  
NINETEENTH REFUELING  
OUTAGE**



*A Duke Energy Company*

# INSERVICE INSPECTION REPORT

## UNIT 1 OCONEE 2000 REFUELING OUTAGE EOC19 (OUTAGE 4)

Location: 7800 Rochester Highway, Seneca, South Carolina 29672

NRC Docket No. 50-269

Commercial Service Date: July 15, 1973

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

Revision 0

Prepared By:	<u>Larry C. Keith</u>	Date	<u>3-29-01</u>
Reviewed By:	<u>Andrew J. Hogge, Jr.</u>	Date	<u>3/29/2001</u>
Approved By:	<u>R. Kevin Rhyme</u>	Date	<u>3/30/01</u>

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

**As required by the Provisions of the ASME Code Rules**

- 1. Owner: Duke Energy Corporation, 526 S. Church St., Charlotte, NC 28201-1006  
(Name and Address of Owner)
- 2. Plant: Oconee Nuclear Station, 7800 Rochester Highway, Seneca, SC 29672  
(Name and Address of Plant)
- 3. Plant Unit: 1      4. Owner Certificate of Authorization (if required) N/A
- 5. Commercial Service Date: July 15, 1973      6. National Board Number for Unit N/A
- 7. Components Inspected:

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

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this 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 July 8, 1999 to January 13, 2001
- 9. Inspection Period Identification: Second Period of the Third Interval
- 10. Inspection Interval Identification: Third Inservice Inspection Interval
- 11. Applicable Edition of Section XI 1989 Addenda None
- 12. Date/Revision of Inspection Plan: February 2, 2000 / Revision 5
- 13. Abstract of Examinations and Test. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Sections 3.0 and 4.0
- 14. Abstract of Results of Examination and Tests. See Section 5.0
- 15. Abstract of Corrective Measures. See Section 8.0

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 MARCH 30, 2001 Signed Duke Energy Corp. By L. Kevin Rhyme  
Owner

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia employed by \*The HSBI&I Co. of Hartford, Conn. have inspected the components described in this Owner's Report during the period July 8, 1999 to January 13, 2001, 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

E. J. [Signature] Commissions GA 360 NIC  
Inspector's Signature National Board, State, Province, and Endorsements

Date April 09 20 01

\* The Hartford Steam Boiler Inspection & Insurance Co.  
200 Ashford Center North  
Suite 300  
Atlanta, GA. 30338

## **DISTRIBUTION LIST**

- 1) Duke Energy Corporation  
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Company (ANII)  
c/o Clayton T. Smith  
Oconee Nuclear Station
- 5) D. E. LaBarge  
Project Manager  
Office of NRR  
USNRC  
Washington, DC 20555
- 6) Laura Burba  
Nuclear GO  
Regulatory & Industrial Affairs  
Mail Code= EC050

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## 1.0 General Information

This report describes the Inservice Inspection of Duke Energy Corporation's Oconee Nuclear Station, Unit 1, during the 2000 Refueling Outage, also referred to as EOC 19 (Outage 4). This is the last outage in the second inspection period of the third ten year interval.

Included in this report are the final Inservice Inspection Plan, the inspection results for each item, a summary for each category of examination and corrective action taken when unacceptable conditions were found. In addition, there is a section included for completed NIS-2 documentation of repairs and replacements.

### 1.1 Identification Numbers

Item	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Babcock & Wilcox	620-0003-51-52	N/A	N-101
Steam Generator A	Babcock & Wilcox	620-0003-55-1	N/A	N-103
Steam Generator B	Babcock & Wilcox	620-0003-55-2	N/A	N-104
Pressurizer	Babcock & Wilcox	620-0003-59	N/A	N-102
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
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 Authorized Nuclear Inservice Inspector(s)**

Name: Clayton T. Smith

Employer: The Hartford Steam Boiler Inspection & Insurance Company

Business Address: The Hartford Steam Boiler Inspection & Insurance Co.  
 200 Ashford Center North  
 Suite 300  
 Atlanta, GA 30338

## 2.0 Summary of Inservice Inspections

The information shown below provides an abstract of ASME Section XI Class 1, Class 2, and Augmented Items scheduled and examined during EOC19 (Outage 4) at Oconee Nuclear Station Unit 1.

### 2.1 *Class 1 Inspection*

#### Examination Category B-A      Pressure Retaining Welds in Reactor Vessel

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B01.010	<b>Shell Welds</b>	
B01.011	Circumferential	0
B01.012	Longitudinal	NA
B01.020	<b>Head Welds</b>	
B01.021	Circumferential	0
B01.022	Meridional	NA
B01.030	Shell to Flange Welds	0
B01.040	Head to Flange Welds	0
B01.050	<b>Repair Welds</b>	
B01.051	Beltline Region	N/A
<b>TOTALS</b>		0

**Examination Category B-B**

**Pressure Retaining Welds in Vessels Other than Reactor Vessels**

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Pressurizer</b>	
B02.010	<b>Shell to Head Welds</b>	
B02.011	Circumferential	0
B02.012	Longitudinal	0
B02.020	<b>Head Welds</b>	
B02.021	Circumferential	NA
B02.022	Meridional	NA
	<b>Steam Generator (Primary Side)</b>	
B02.030	<b>Head Welds</b>	
B02.031	Circumferential	0
B02.032	Meridional	N/A
B02.040	Tubesheet to Head Weld	1
	<b>Heat Exchangers (Primary Side) -- Head</b>	
B02.050	<b>Head Welds</b>	
B02.051	Circumferential	NA
B02.052	Meridional	NA
	<b>Heat Exchangers (Primary Side) -- Shell</b>	
B02.060	Tubesheet to Head Welds	0
B02.070	Longitudinal Welds	NA
B02.080	Tubesheet-to-Shell Welds	NA
<b>TOTALS</b>		<b>1</b>

**Examination Category B-D Full Penetration Welds of Nozzles in Vessels  
Inspection Program B**

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Reactor Vessel</b>	
B03.090	Nozzle-to-Vessel Welds	0
B03.100	Nozzle Inside Radius Section	0
	<b>Pressurizer</b>	
B03.110	Nozzle-to-Vessel Welds	3
B03.120	Nozzle Inside Radius Section	3
	<b>Steam Generators (Primary Side)</b>	
B03.130	Nozzle-to-Vessel Welds	2
B03.140	Nozzle Inside Radius Section	2
	<b>Heat Exchangers (Primary Side)</b>	
B03.150	Nozzle-to-Vessel Welds	0
B03.160	Nozzle Inside Radius Section	0
<b>TOTALS</b>		<b>10</b>

**Examination Category B-E Pressure Retaining Partial Penetration Welds in Vessels**

REFERENCE SECTION 11.0 OF THIS REPORT

**Examination Category B-F Pressure Retaining Dissimilar Metal Welds**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b><i>Reactor Vessel</i></b>	
B05.010	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	0
B05.020	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Weld	NA
B05.030	Nozzle-to-Safe End Socket Welds	NA
	<b><i>Pressurizer</i></b>	
B05.040	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	0
B05.050	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	1
B05.060	Nozzle-to-Safe End Socket Welds	NA
	<b><i>Steam Generators</i></b>	
B05.070	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	NA
B05.080	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	NA
B05.090	Nozzle-to-Safe End Socket Welds	NA

**Examination Category B-F (Continued)**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b><i>Heat Exchangers</i></b>	
B05.100	Nominal Pipe Size 4" or Larger Nozzle-to-Safe End Butt Welds	NA
B05.110	Nominal Pipe Size Less Than 4" Nozzle-to-Safe End Butt Welds	NA
B05.120	Nozzle-to-Safe End Socket Welds	NA
	<b><i>Piping</i></b>	
B05.130	Nominal Pipe Size 4" or Larger Dissimilar Metal Butt Welds	2
B05.140	Nominal Pipe Size Less Than 4" Dissimilar Metal Butt Welds	1
B05.150	Dissimilar Metal Socket Welds	NA
<b>TOTALS</b>		4

**Examination Category B-G-1**

**Pressure Retaining Bolting, Greater Than 2" in Diameter**

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Reactor Vessel</b>	
B06.010	Closure Head Nuts	0
B06.020	Closure Studs, (in place)	NA
B06.030	Closure Studs, (when removed)	0
B06.040	Threads in Flange	0
B06.050	Closure Washers, Bushings	0
	<b>Pressurizer</b>	
B06.060	Bolts and Studs	1
B06.070	Flange Surface, (when connection disassembled)	0
B06.080	Nuts , Bushings and Washers	0
	<b>Steam Generators</b>	
B06.090	Bolts and Studs	NA
B06.100	Flange Surface, (when connection disassembled)	NA
B06.110	Nuts , Bushings and Washers	NA
	<b>Heat Exchangers</b>	
B06.120	Bolts and Studs	NA
B06.130	Flange Surface, (when connection disassembled)	NA
B06.140	Nuts , Bushings and Washers	NA

**Examination Category B-G-1 (Continued)**

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Piping</b>	
B06.150	Bolts and Studs	NA
B06.160	Flange Surface, (when connection disassembled)	NA
B06.170	Nuts , Bushings and Washers	NA
	<b>Pumps</b>	
B06.180	Bolts and Studs	0
B06.190	Flange Surface, (when connection disassembled)	1
B06.200	Nuts , Bushings and Washers	0
	<b>Valves</b>	
B06.210	Bolts and Studs	NA
B06.220	Flange Surface, (when connection disassembled)	NA
B06.230	Nuts , Bushings and Washers	NA
<b>TOTALS</b>		2

**Examination Category B-G-2**

**Pressure Retaining Bolting, 2" and Less in Diameter**

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Reactor Vessel</b>	
B07.010	Bolts, Studs, and Nuts	NA
	<b>Pressurizer</b>	
B07.020	Bolts, Studs, and Nuts	1
	<b>Steam Generators</b>	
B07.030	Bolts, Studs, and Nuts	0
	<b>Heat Exchangers</b>	
B07.040	Bolts, Studs, and Nuts	NA
	<b>Piping</b>	
B07.050	Bolts, Studs, and Nuts	0
	<b>Pumps</b>	
B07.060	Bolts, Studs, and Nuts	NA
	<b>Valves</b>	
B07.070	Bolts, Studs, and Nuts	2
	<b>CRD Housings</b>	
B07.080	Bolts, Studs, and Nuts In CRD Housing When Disassembled	2
<b>TOTALS</b>		<b>5</b>

**Examination Category B-H Integral Attachments for Vessels**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Reactor Vessel</b>	
B08.010	Integrally Welded Attachments	NA
	<b>Pressurizer</b>	
B08.020	Integrally Welded Attachments	NA
	<b>Steam Generators</b>	
B08.030	Integrally Welded Attachments	NA
	<b>Heat Exchangers</b>	
B08.040	Integrally Welded Attachments	NA
<b>TOTALS</b>		NA

**Examination Category B-J Pressure Retaining Welds in Piping**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B09.010	Nominal Pipe Size 4" or Larger	
B09.011	Circumferential Welds	8
B09.012	Longitudinal Welds <sup>1</sup>	0
B09.020	Nominal Pipe Size Less Than 4"	
B09.021	Circumferential Welds	18
B09.022	Longitudinal Welds <sup>1</sup>	NA

<sup>1</sup> Longitudinal welds in Examination Category B-J that intersect circumferential welds are examined per Code Case N-524.

**Examination Category B-J (Continued)**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B09.030	Branch Pipe Connection Welds	
B09.031	Nominal Pipe Size 4" or Larger	0
B09.032	Less Than Nominal Pipe Size 4"	3
B09.040	Socket Welds	5
<b>TOTALS</b>		34

**Examination Category B-K-1 Integral Attachments for Piping, Pumps and Valves**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Piping</b>	
B10.010	Integrally Welded Attachments	NA
	<b>Pumps</b>	
B10.020	Integrally Welded Attachments	NA
	<b>Valves</b>	
B10.030	Integrally Welded Attachments	NA
<b>TOTALS</b>		NA

Examination Category B-L-1, B-M-1 Pressure Retaining Welds in Pump Casings and Valve Bodies

B-L-2, B-M-2 Pump Casings and Valve Bodies

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Pumps</b>	
B12.010	Pump Casing Welds (B-L-1)	0
B12.020	Pump Casing (B-L-2) (when disassembled for Maintenance, Repair or Volumetric Examination)	0
	<b>Valves</b>	
B12.030	Valves, Nominal Pipe Size Less Than 4" Valve Body Welds (B-M-1)	NA
B12.040	Valves, Nominal Pipe Size 4" or Larger Valve Body Welds (B-M-1)	NA
B12.050	Valve Body, Exceeding 4" Nominal Pipe Size (B-M-2)	0
<b>TOTALS</b>		0

**Examination Category B-N-1 Interior of Reactor Vessel**

**B-N-2 Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessels**

**B-N-3 Removable Core Support Structures**

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Reactor Vessel</b>	
B13.010	Vessel Interior (B-N-1)	1
	<b>Reactor Vessel (PWR)</b>	
B13.050	Interior Attachments Within The Beltline Region (B-N-2)	NA
B13.060	Interior Attachments Beyond The Beltline Region (B-N-2)	NA
B13.070	Core Support Structure (B-N-3)	0
<b>TOTALS</b>		1

**Examination Category B-O Pressure Retaining Welds in Control Rod Housings**

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
	<b>Reactor Vessel</b>	
B14.010	Welds in CRD Housing	4
<b>TOTALS</b>		4

**Examination Category B-P All Pressure Retaining Components**

REFERENCE SECTION 11.0 OF THIS REPORT

**Examination Category B-Q Steam Generator Tubing<sup>2</sup>**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
B16.010	Steam Generator Tubing in Straight Tube Design	NA
B16.020	Steam Generator Tubing in U-Tube Design	NA
<b>TOTALS</b>		NA

**Examination Category F-A Class 1 Component Supports**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
F1.010	Class 1 Piping Supports Reference Section 4.0 of this report	4
F1.040	Class 1 Supports Other Than Piping Reference Section 4.0 of this report	0
F1.050	Class 1 Snubbers	27
<b>TOTALS</b>		31

<sup>2</sup> Steam Generator Tubing is examined and documented by Steam Generator Maintenance Group of the Station Support Division as required by the Station Technical Specifications and is not included in this report.

**2.2 Class 2 Inspections**

**Examination Category C-A Pressure Retaining Welds in Pressure Vessel**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C01.010	Shell Circumferential Welds	1
C01.020	Head Circumferential Welds	0
C01.030	Tubesheet to Shell Weld	0
<b>TOTALS</b>		1

**Examination Category C-B Pressure Retaining Nozzle Welds in Vessels**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C02.010	Nozzles in Vessels $\leq 1/2$ " Nominal Thickness	
C02.011	Nozzle-to-Shell (or Head) Weld	0
C02.020	Nozzles Without Reinforcing Plate In Vessels $> 1/2$ " Nominal Thickness	
C02.021	Nozzle-to-Shell (or Head) Weld	1
C02.022	Nozzle Inside Radius Section	0
C02.030	Nozzles With Reinforcing Plate in Vessels $> 1/2$ " Nominal Thickness	

**Examination Category C-B (Continued)**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C02.031	Reinforcing Plate Welds to Nozzle and Vessel	0
C02.032	Nozzle-to-Shell (or Head) Welds When Inside of Vessel Is Accessible	0
C02.033	Nozzle-to-Shell (or Head) Welds When Inside of Vessel is Inaccessible	0
<b>TOTALS</b>		1

**Examination Category C-C Integral Attachments For Vessels, Piping, Pumps and Valves**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Pressure Vessels</b>	
C03.010	Integrally Welded Attachments	0
	<b>Piping</b>	
C03.020	Integrally Welded Attachments	11
	<b>Pumps</b>	
C03.030	Integrally Welded Attachments	0
	<b>Valves</b>	
C03.040	Integrally Welded Attachments	NA
<b>TOTALS</b>		11

**Examination Category C-D      Pressure Retaining Bolting Greater Than 2”  
in Diameter**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b><i>Pressure Vessels</i></b>	
C04.010	Bolts and Studs	NA
	<b><i>Piping</i></b>	
C04.020	Bolts and Studs	NA
	<b><i>Pumps</i></b>	
C04.030	Bolts and Studs	0
	<b><i>Valves</i></b>	
C04.040	Bolts and Studs	0
<b>TOTALS</b>		0

**Examination Category C-F-1 Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
C05.010	Piping Welds $\geq 3/8$ " Nominal Wall Thickness for Piping > Nominal Pipe Size 4	
C05.011	Circumferential Weld	1
C05.012	Longitudinal Welds <sup>3</sup>	NA
C05.020	Piping Welds $> 1/5$ " Nominal Wall Thickness for Piping $\geq$ Nominal Pipe Size 2 and $\leq$ Nominal Pipe Size 4	
C05.021	Circumferential Welds	18
C05.022	Longitudinal Welds <sup>3</sup>	NA
C05.030	Socket Welds	0
C05.040	Pipe Branch Connections of Branch Piping $\geq$ Nominal Pipe Size 2	
C05.041	Circumferential Weld	3
C05.042	Longitudinal Weld <sup>3</sup>	NA
<b>TOTALS</b>		<b>22</b>

<sup>3</sup> Longitudinal welds in Examination Categories C-F-1 and C-F-2 that intersect circumferential welds are examined per Code Case N-524.

**Examination Category C-F-2 Pressure Retaining Welds in Carbon or Low Alloy Steel Piping**

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
C05.050	Piping Welds $\geq \frac{3}{8}$ " Nominal Wall Thickness for Piping > Nominal Pipe Size 4	
C05.051	Circumferential Weld	10
C05.052	Longitudinal Weld <sup>3</sup>	NA
C05.060	Piping Welds > $\frac{1}{5}$ " Nominal Wall Thickness for Piping $\geq$ Nominal Pipe Size 2 and $\leq$ Nominal Pipe Size 4	
C05.061	Circumferential Weld	NA
C05.062	Longitudinal Weld <sup>3</sup>	NA
C05.070	Socket Welds	NA
C05.080	Pipe Branch Connections of Branch Piping $\geq$ Nominal Pipe Size 2	
C05.081	Circumferential Weld	0
C05.082	Longitudinal Weld <sup>3</sup>	NA
<b>TOTALS</b>		10

<sup>3</sup> Longitudinal welds in Examination Categories C-F-1 and C-F-2 that intersect circumferential welds are examined per Code Case N-524.

**Examination Category C-G      Pressure Retaining Welds in Pumps and Valves**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
	<b>Pumps</b>	
C06.010	Pump Casing Welds	NA
	<b>Valves</b>	
C06.020	Valve Body Welds	0
<b>TOTALS</b>		0

**Examination Category C-H      All Pressure Retaining Components**

REFERENCE SECTION 11.0 OF THIS REPORT

**Examination Category F-A      Class 2 Component Supports**

<i>Item Number</i>	<i>Description</i>	<i>Total Examined During Outage</i>
F1.020	Class 2 Piping Supports Reference Section 4.0 of this report	18
F1.040	Class 2 Supports Other Than Piping Reference Section 4.0 of this report	1
F1.050	Class 2 Snubbers Reference Section 4.0 of this report	40
<b>TOTALS</b>		59

### 2.3 Augmented Inspections

<b>Item Number</b>	<b>Description</b>	<b>Total Examined During Outage</b>
G01.001	Reactor Coolant Pump Flywheel	4
G02.001	HPI Nozzle Safe End Examinations	24
G03.001	Pressurizer Surge Line Examinations	1
G04.001	Thermal Stress Piping (NRC Bulletin 88-08)	12
G05.001	Pressurizer Spray Piping Thermal Transient Inspection	0
G06.001	Auxiliary Feedwater Header Water Hammer Examinations (PSC21-82)	0
G07.001	Augmented Examination of Longitudinal Piping Welds With A Nominal Wall Thickness $< \frac{3}{8}$ " and $>$ Nominal Pipe Size 4"	0
G08.001	Pressurizer Sensing/ Sampling Nozzle Safe Ends	0
G09.001	Class 2 Piping Welds Nominal Pipe Size $>$ 4" With Nominal Wall Thickness $< \frac{3}{8}$ "	11
G10.001	Class 1 RTE Mounting Bosses	1
G11.001	Reactor Coolant Pumps 3A2 and 3B1 Alternate Examinations	0
G12.001	HPI System Upgrade Piping Welds With A Nominal Wall Thickness $\leq \frac{1}{5}$ " on Piping with a Nominal Pipe Size $\geq 2$ " and Nominal Pipe Size $\leq 4$ ".	4

A detailed description of each examination listed in Sections 2.1 through 2.3 are located in Section 4 of this report. Results of each examination are located in Section 5 of this report.

### 3.0 Third Ten Year Inspection Status

The completion status of inspections required in the third ten year inspection interval by the 1989 ASME Section XI Code, no 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, and in Table IWC-2500-1 for Class 2 Inspections. Augmented inspections are also included.

#### Class 1 Inspections

<b>Examination Category</b>	<b>Description</b>	<b>Inspections Required</b>	<b>Inspections Completed</b>	<b>Percentage Completed</b>	<b><sup>4</sup>Deferral Allowed</b>
B-A	Pressure Retaining Welds in Reactor Vessel	15 Welds	2.5 Welds	17%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessel	11 Welds	6 Welds	55%	No
B-D	Full Penetration Welds of Nozzles in Vessels Inspection Program B	30 Inspections	18 Inspections	60%	Partial
B-E	Pressure Retaining Partial Penetration Welds in Vessels	REFERENCE SECTION 11.0 OF THIS REPORT			
B-F	Pressure Retaining Dissimilar Metal Welds	32 Welds	19 Welds	59%	No
B-G-1	Pressure Retaining Bolting Greater than 2 Inch Diameter	126 Items	84.16 Items	67%	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	23 Items	14 Items	61%	No
B-H	Integral Attachment for Vessels	N/A	N/A	N/A	N/A
B-J	Pressure Retaining Welds in Piping	152 Welds	88 Welds	58%	No

<sup>4</sup>Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1.

### Class 1 Inspections (Continued)

<b>Examination Category</b>	<b>Description</b>	<b>Inspections Required</b>	<b>Inspections Completed</b>	<b>Percentage Completed</b>	<b><sup>5</sup> Deferral Allowed</b>
B-K-1	Integral Attachments for Piping, Pumps and Valves	N/A	N/A	N/A	N/A
B-L-1	Pressure Retaining Welds in Pump Casings	1 Weld	1 Weld	100%	Yes
B-L-2	Pump Casings	1 Casing	1 Casing	100%	Yes
B-M-1	Pressure Retaining Welds in Valve Bodies	N/A	N/A	N/A	N/A
B-M-2	Valve Body > 4 in. Nominal Pipe Size	3 Valves	3 Valves	100%	Yes
B-N-1	Interior of Reactor Vessel	3 Inspections	2 Inspection	67%	No
B-N-2	Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessels	N/A	N/A	N/A	N/A
B-N-3	Removable Core Support Structures	1 Item	0 Items	0%	Yes
B-0	Pressure Retaining Welds in Control Rod Housings	3 Housings	2 Housings	67%	Yes
B-P	All Pressure Retaining Components	REFERENCE SECTION 11.0 OF THIS REPORT			
B-Q	Steam Generator Tubing	N/A	N/A	N/A	N/A
F-A F1.10 & F1.040 items.	Class 1 Component Supports (Except Snubbers)	32 Supports	20 Supports	63%	No
F-A F1.050 items	Class 1 Component Supports, Snubbers	27 Snubbers	27 Snubbers	100%	No

<sup>5</sup> Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1.

## Class 2 Inspections

<b>Examination Category</b>	<b>Description</b>	<b>Inspections Required</b>	<b>Inspections Completed</b>	<b>Percentage Completed</b>	<b><sup>5</sup> Deferral Allowed</b>
C-A	Pressure Retaining Welds in Pressure Vessels	8 Welds	5 Welds	63%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	4 Welds	2 Welds	50%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	93 Attachments	59 Attachments	63%	No
C-D	Pressure Retaining Bolting Greater Than 2 Inches in Diameter	2 Items	1 Item	50%	No
C-F-1	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	142 Welds	92 Welds	65%	No
C-F-2	Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	63 Welds	36 Welds	57%	No
C-G	Pressure Retaining Welds in Pumps and Valves	1	1	100%	No
C-H	All Pressure Retaining Components	REFERENCE SECTION 11.0 OF THIS REPORT			
F-A F1.020 & F1.040 items.	Class 2 Component Supports (Except Snubbers)	120 Supports	75 Supports	63%	No
F-A F1.050 items	Class 2 Component Supports, Snubbers	40 Snubbers	40 Snubbers	100%	No

<sup>5</sup> Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1.

## Augmented Inspections

<i>Description</i>	<i>Percentage Complete</i>
Reactor Coolant Pump Flywheels (Item No. Series G01)	100% of EOC 19 Requirements
High Pressure Injection and Make-Up Nozzle Safe-Ends (Item No. Series G02)	100% of EOC 19 Requirements
Pressurizer Surge Line Drain Line (Item No. Series G03)	100% of EOC 19 Requirements
Thermal Stress Piping (Item No. Series G04)	100% of EOC 19 Requirements
Pressurizer Spray Piping Thermal Transient Inspection (Item No. Series G05)	Not Scheduled
Auxiliary Feedwater Header Preliminary Safety Concern (PSC 21-82) Water Hammer Examinations (Item No. Series G06)	Not Scheduled
Augmented Examination of Longitudinal Piping Welds With A Nominal Wall Thickness Less Than 3/8" and Greater Than Nominal Pipe Size 4" (Item No. Series G07)	No longer applicable. Code Case N-524 is being used for the examination of all longitudinal piping welds.
Pressurizer Sensing/Sampling Nozzle Safe Ends (Item No. Series G08)	Not Scheduled
Class 2 Piping Welds Nominal Pipe Size Greater Than 4" With A Nominal Wall Thickness Less Than 3/8" (Item No. Series G09)	100% of EOC 19 Requirements
Class 1 RTE Mounting Bosses (Item No. Series G10)	100% of EOC 19 Requirements
HPI System Upgrade (Item No. Series G12)	100% of EOC 19 Requirements

#### **4.0 Final Inservice Inspection Plan**

The final ISI Plan shown in this section lists all ASME Section XI Class 1 and ASME Section XI Class 2, and Augmented examinations credited for EOC 19 (Outage 4) at Oconee Nuclear Station Unit 1.

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

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

**CATEGORY B-B, Pressure Retaining Welds  
in Vessels Other Than Reactor Vessels**

**DUKE ENERGY CORPORATION  
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**Steam Generators (Primary Side)**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Tubesheet-to-Head Weld ****</b>								
B02.040.002	1-SGB-WG58-2	50 ISI-OCN1-004	NDE-970	UT	CS	119.000	40393	Steam Generator 1B Lower Head to Lower tubesheet. Piece 07 to 50.
	Circumferential	OM-201-1873	NDE-640			8.500		
	Class A							SGB Lower Head to LowerTubesheet

**Total B02.040 Items: 1**

**Total B02 Items: 1**

**CATEGORY B-D, Full Penetration Welds of  
Nozzles in Vessels**

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**Pressurizer**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Nozzle-to-Vessel Welds ****</b>									
B03.110.005	1-PZR-WP33-1	50	ISI OCN1-002	NDE-620	UT	CS	6.875	40394	Pzr Relief Nozzle Pc. 31 to Uppper Head Pc. 5
	Circumferential		OM-201-1878	See			4.750	50236	between W & X Axis.
Class A			B&W129262E	Comment		Pzr Relief Nozzle to Pzr Upper Head			Calibration block 50236 is being added as a result of revision 8 to examination procedure NDE-620. Depending upon the examiner's qualifications, procedure PDI-UT-6 may be used in lieu of procedure NDE-620.
B03.110.009	1-PZR-WP26-1	50	ISI OCN1-002	NDE-620	UT	CS	5.750	40338	Pressurizer Sensing & Sampling Nozzle Pc. 30 to
	Circumferential		OM-201-91	See			6.187	50236	Shell Pc. 4 W & X Quadrant.
Class A			OM-201-1878	Comment		Pzr Nozzle to Pzr Heater Belt Shell			Calibration block 50236 is being added as a result of revision 8 to examination procedure NDE-620. Depending upon the examiner's qualifications, procedure PDI-UT-6 may be used in lieu of procedure NDE-620.
B03.110.010	1-PZR-WP26-2	50	ISI OCN1-002	NDE-620	UT	CS	5.750	40338	Pressurizer Sensing and Sampling Nozzle Pc. 30 to
	Circumferential		OM-201-91	See			6.187	50236	Shell Pc.4 Y & Z Quadrant.
Class A			OM-201-1878	Comment		Pzr Nozzle to Pzr Heater Belt Shell			Calibration block 50236 is being added as a result of revision 8 to examination procedure NDE-620. Depending upon the examiner's qualifications, procedure PDI-UT-6 may be used in lieu of procedure NDE-620.

**Total B03.110 Items: 3**

**CATEGORY B-D, Full Penetration Welds of  
Nozzles in Vessels**

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**Pressurizer**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Nozzle Inside Radius Section ****</b>									
B03.120.005	1-PZR-WP33-1	50	ISI OCN1-002 B&W129262E OM-201-1878	NDE-680	UT	CS	6.875 4.750	40394	Pressurizer Relief Nozzle Pc. 31 to Upper Head Pc. 5 between W & X Axis. (Inside Radius Section).
Class A									Pzr Relief Nozzle to Pzr Upper Head
B03.120.009	1-PZR-WP26-1	50	ISI OCN1-002 OM-201-91 OM-201-1878	NDE-680	UT	CS	5.750 2.531	40338	Pressurizer Sensing and Sampling Nozzle Pc. 30 to Shell Pc.4 W & X Quadrant. (Inside Radius Section).
Class A									Pzr Nozzle to Pzr Heater Belt Shell
B03.120.010	1-PZR-WP26-2	50	ISI OCN1-002 OM-201-91 OM-201-1878	NDE-680	UT	CS	5.750 2.531	40338	Pressurizer Sensing and Sampling Nozzle Pc. 30 to Shell Pc.4 Y & Z Quadrant. (Inside Radius Section).
Class A									Pzr Nozzle to Pzr Heater Belt Shell

**Total B03.120 Items: 3**

**CATEGORY B-D, Full Penetration Welds of  
Nozzles in Vessels**

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**Steam Generators (Primary Side)**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Nozzle-to-Vessel Welds ****</b>									
B03.130.003	1-SGB-WG50-2	50	ISI-OCN1-004	NDE-970	UT	CS	38.380	40393	Steam Generator 1B Outlet Nozzle Pc. 65 to Head
	Circumferential		OM-201-1873	NDE-640			8.000		Pc. 07 W-Z Axis.
	Class A		B&W129317E						SGB Lower Head to Nozzle Outlet Nozzle
B03.130.004	1-SGB-WG50-1	50	ISI-OCN1-004	NDE-970	UT	CS	38.380	40393	Steam Generator 1B Outlet Nozzle Pc.65 to Head
	Circumferential		OM-201-1873	NDE-640			8.000		Pc. 07 Y-Z Axis.
	Class A		B&W129317E						SGB Lower Head to Nozzle Outlet Nozzle

**Total B03.130 Items: 2**

**CATEGORY B-D, Full Penetration Welds of  
Nozzles in Vessels**

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**Steam Generators (Primary Side)**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS	ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Nozzle Inside Radius Section ****</b>									
B03.140.003	1-SGB-WG50-2	50	ISI-OCN1-004 OM-201-1873 B&W129317E	NDE-680	UT	CS	38.380 8.000	40393	Steam Generator 1B Outlet Nozzle Pc. 65 to Head Pc. 7. W-Z Axis. (Inside Radius Section).
Class A						SGB Lower Head to Outlet Nozzle			
B03.140.004	1-SGB-WG50-1	50	ISI-OCN1-004 OM-201-1873 B&W129317E	NDE-680	UT	CS	38.380 8.000	40393	Steam Generator 1B Outlet Nozzle Pc. 65 to Head Pc. 7. Y-Z Axis. (Inside Radius Section).
Class A						SGB Lower Head to Nozzle Outlet Nozzle			

**Total B03.140 Items: 2**  
**Total B03 Items: 10**

**CATEGORY B-F, Pressure Retaining  
Dissimilar Metal Welds**

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**Pressurizer**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Less Than NPS 4; Nozzle-to-Safe End Butt Welds ****</b>								
B05.050.001	1-PZR-WP91-1	50 ISI OCN1-002	NDE-35	PT	SS-CS	2.500		Pressurizer Relief Nozzle Pc. 31 to Safe End Pc. 32
	Circumferential	B&W129262E				0.000		W-X Axis.
	Class A							Nozzle Piece 31 to
	Dissimilar							Safe End Pc.32
<b>Total B05.050 Items:</b>		<b>1</b>						

**CATEGORY B-F, Pressure Retaining**  
**Dissimilar Metal Welds**

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**Piping**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
<b>**** NPS 4 or Larger; Dissimilar Metal Butt Welds ****</b>								
B05.130.003	1-PIA2-7	50 ISI OCN1-008 OM-201-1845	NDE-610	UT	SS-CS	33.500 2.330	40350	Examine from the pipe side.
Class A	Circumferential Stress weld Dissimilar			Pipe to Safe end				
B05.130.003A	1-PIA2-7	50 ISI OCN1-008 OM-201-1845	NDE-610	UT	SS-CS	33.500 2.330	40397	Examine from safe end side.
Class A	Circumferential Stress weld Dissimilar			Pipe to Safe end				
B05.130.003B	1-PIA2-7	50 ISI OCN1-008	NDE-35	PT	SS-CS	33.500 2.330		
Class A	Circumferential Stress weld Dissimilar			Pipe to Safe end				
B05.130.004	1-PDA2-2	50 ISI OCN1-012 OM-201-1844	NDE-610	UT	SS-CS	33.500 2.330	40350	Examine from the elbow side.
Class A	Circumferential Dissimilar			Safe end to Elbow				
B05.130.004A	1-PDA2-2	50 ISI OCN1-012 OM-201-1844	NDE-610	UT	SS-CS	33.500 2.330	40397	Examine from the safe end side
Class A	Circumferential Dissimilar			Safe end to Elbow				
B05.130.004B	1-PDA2-2	50 ISI OCN1-012 OM-201-1845	NDE-35	PT	SS-CS	33.500 2.330		
Class A	Circumferential Dissimilar			Safe end to Elbow				
<b>Total B05.130 Items: 6</b>								

**CATEGORY B-F, Pressure Retaining**

**Dissimilar Metal Welds**

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**Piping**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Less Than NPS 4; Dissimilar Metal Butt Welds ****</b>								
B05.140.002	1-PIA2-11	50 ISI OCN1-008	NDE-35	PT	CS-Inconel	3.500		
	Circumferential	OM-201-1870				0.816		
	Class A							Nozzle Nozzle to
	Dissimilar							Safe end
<hr/>								
<b>Total B05.140 Items:</b>	<b>1</b>							
<b>Total B05 Items:</b>	<b>8</b>							

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater than 2" In Diameter**

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**Pressurizer**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Bolts and Studs ****</b>								
B06.060.001	1-PZR-STUDS	OM-201-1262	See Com ments	UT	CS	2.750 0.000	40425	Pressurizer Manway Studs Pc. 67; 12 Studs. Stud Length = 14.875 Use Procedure PDI-UT-5
Class A								
<b>Total B06.060 Items: 1</b>								

**CATEGORY B-G-1, Pressure Retaining  
Bolting, Greater than 2" In Diameter**

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**Pumps**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Flange Surface, when connection disassembled ****</b>								
B06.190.004	1-RCP-1B2-FLANGE	OM-201D-34 OM-201D-35A	QAL-13	VT-1	SS	77.000 0.000		Reactor Coolant Pump 1B2 Main Flange. 1" annular surface of flange surrounding each stud.(Inspect Only If Disassembled.)
Class A								

**Total B06.190 Items: 1**  
**Total B06 Items: 2**

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2" And Less In Diameter**

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**Pressurizer**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
<b>**** Bolts, Studs, and Nuts ****</b>								
B07.020.002	1-PZR-CHB-STUDS		QAL-13	VT-1	CS		2.000 0.000	Pressurizer Center Heater Bundle Studs Pc. 75. (Total 16 Studs). Length = 17.875. All bolts, studs and nuts.
	Class A	OM-201-9 OM-201-1262						
<b>Total B07.020 Items:</b>		<b>1</b>						

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2" And Less In Diameter**

**DUKE ENERGY CORPORATION  
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Inservice Inspection Database Management System**

**Valves**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Bolts, Studs, and Nuts ****</b>								
B07.070.007	1-53A-LP1-BOLTS	53A	QAL-13	VT-1	CS		0.000 0.000	12" Decay Heat Suction from RCS - Valve 1LP -1 Bolting.
	Class A	OM-201-165 OFD-102A-1.1						
B07.070.013	1-53A-LP103-BOLTS	53A	QAL-13	VT-1	NA		0.000 0.000	Decay Heat Emergency Dump Valve 1LP-103 Bolting (Total 6 Bolts Pc. 20, 6 Nuts/Washers Pc. 41 & 44).
	Class A	OM-245-755 OFD-102A-1.1						
<b>Total B07.070 Items:</b>		<b>2</b>						

**CATEGORY B-G-2, Pressure Retaining  
Bolting, 2" And Less In Diameter**

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

**CRD Housings**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Bolts, Studs, and Nuts ****</b>								
B07.080.001	1-RPV-CRD-BOLTS	OM-201-2248 DPS 706599-1056 B&W152006E	QAL-13	VT-1	CS		1.250 0.000	CRD Housing Bolts (8 bolts on each connection) Total Connections inspected to date; CRD # 38, 59, 35, 43, 60, 69, 45, 25, 20, 13, 19, 24, 42, 66, 57, 37, 21, 9, 5, 8, 18, 34, 54, 46, 26, 10, 2, 1, 4, 12, 28, 48, 50, 30, 14, 6, 68, 56, 49, 55, 67, 61, 44, 36, 29, 3, 7, 17, 33, 53, 62, 22, 15, 11, 16, 23, 41, 65, 58, 39, 31, 27, 32, 40, 63, 51, 47, 52, 64. (Inspect only if Disassembled). Reference Request for Relief ONS-004 & ONS-005.
	Class A							
B07.080.002	1-RPV-CRD-RINGS	OM-201-2248 DPS 706599-1056 B&W152006E	QAL-13	VT-1	CS		11.500 1.250	CRD Housing Rings ; 1 Pair per CRD Housing. Total CRD Housings inspected to date; CRD # 38, 59, 35, 43, 60, 69, 45, 25, 20, 13, 19, 24, 42, 66, 57, 37, 21, 9, 5, 8, 18, 34, 54, 46, 26, 10, 2, 1, 4, 12, 28, 48, 50, 30, 14, 6, 68, 56, 49, 55, 67, 61, 44, 36, 29, 3, 7, 17, 33, 53, 62, 22, 15, 11, 16, 23, 41, 65, 58, 39, 31, 27, 32, 40, 63, 51, 47, 52, 64.. (Inspect only if Disassembled)
	Class A							
<b>Total B07.080 Items:</b>		<b>2</b>						
<b>Total B07 Items:</b>		<b>5</b>						

**CATEGORY B-J, Pressure Retaining Welds In  
Piping**

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**NPS 4 or Larger**

**Oconee 1**

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Welds ****</b>								
B09.011.017	1-PIA2-9	50 ISI OCN1-008	NDE-600	UT	SS		36.500	
	Circumferential	OM-201-1846					2.330	
Class A	Stress weld							Safe end to RC Pump 1A2
B09.011.017A	1-PIA2-9	50 ISI OCN1-008	NDE-35	PT	SS		36.500	
	Circumferential	OM-201-1846					2.330	
Class A	Stress weld							Safe end to RC Pump 1A2
B09.011.093	1-53A-02-63L	53A 1-53A-02(2)	NDE-600	UT	SS		10.000	
	Circumferential	OFD-102A-1.3					1.000	
Class A								Pipe to Elbow
B09.011.093A	1-53A-02-63L	53A 1-53A-02(2)	NDE-35	PT	SS		10.000	
	Circumferential	OFD-102A-1.3					1.000	
Class A								Pipe to Elbow
B09.011.098	1-53A-01-8L	53A 1-53A-01(2)	NDE-600	UT	SS		14.000	
	Circumferential	OFD-102A-1.3					1.250	
Class A								Elbow to Valve 1CF-13
B09.011.098A	1-53A-01-8L	53A 1-53A-01(2)	NDE-35	PT	SS		14.000	
	Circumferential	OFD-102A-1.3					1.250	
Class A								Elbow to Valve 1CF-13
B09.011.099	1-53A-01-6L	53A 1-53A-01(2)	NDE-600	UT	SS		14.000	
	Circumferential	OFD-102A-1.3					1.250	
Class A								Elbow to Pipe
B09.011.099A	1-53A-01-6L	53A 1-53A-01(2)	NDE-35	PT	SS		14.000	
	Circumferential	OFD-102A-1.3					1.250	
Class A								Elbow to Pipe

**CATEGORY B-J, Pressure Retaining Welds In****Piping**

**DUKE ENERGY CORPORATION**  
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**NPS 4 or Larger**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.011.102	1-53A-01-28L	53A 1-53A-01(2)	NDE-600	UT	SS	10.000		
	Circumferential	OFD-102A-1.3				1.000		
Class A				Pipe to Elbow				
B09.011.102A	1-53A-01-28L	53A 1-53A-01(2)	NDE-35	PT	SS	10.000		
	Circumferential	OFD-102A-1.3				1.000		
Class A				Pipe to Elbow				
B09.011.103	1-53A-01-21L	53A 1-53A-01(2)	NDE-600	UT	SS	10.000		
	Circumferential	OFD-102A-1.3				1.000		
Class A				Elbow to Pipe				
B09.011.103A	1-53A-01-21L	53A 1-53A-01(2)	NDE-35	PT	SS	10.000		
	Circumferential	OFD-102A-1.3				1.000		
Class A				Elbow to Pipe				
B09.011.113	1HP-285-52C	51A 1HP-285	NDE-600	UT	SS	4.000		This weld was listed previously as 1-51A-05-52C until iso 1-51A-05 was redrawn.
	Circumferential	OFD-101A-1.4				0.531		
Class A				Tee to Reducer				
B09.011.113A	1HP-285-52C	51A 1HP-285	NDE-35	PT	SS	4.000		This weld was listed previously as 1-51A-05-52C until iso 1-51A-05 was redrawn.
	Circumferential	OFD-101A-1.4				0.531		
Class A				Tee to Reducer				
B09.011.120	1-51A-04-3C	51A 1-51A-04	NDE-600	UT	SS	4.000		
	Circumferential	OFD-101A-1.4				0.531		
Class A				Pipe to Elbow				
B09.011.120A	1-51A-04-3C	51A 1-51A-04	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-1.4				0.531		
Class A				Pipe to Elbow				

**Total B09.011 Items: 16**

**CATEGORY B-J, Pressure Retaining Welds In****Piping****Less Than NPS 4**

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

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Welds ****</b>								
B09.021.008	1RC-201-102	51A 1RC-201	NDE-35	PT	SS	2.500		This weld was listed previously as 1-51A-11-87 until iso 1-51A-11 was redrawn. Revision 2 to isometric changed weld number from 1RC-201-2. Weld 1-51A-11-87 was deleted and weld 1RC-201-102 replaced it. Inspect this weld at the same time item number G04.001.001 is inspected.
	Circumferential	OFD-101A-1.4				0.375		
Class A	Stress weld			Pipe to Safe-End				
B09.021.009	1RC-201-92	51A 1RC-201	NDE-35	PT	SS	2.500		This weld was listed previously as 1-51A-11-88 until iso 1-51A-11 was redrawn. Revision 2 to isometric changed weld number from 1RC-201-1. Weld 1-51A-11-88 was deleted and weld 1RC-201-92 replaced it. Inspect this weld at the same time item number G04.001.002 is inspected.
	Circumferential	OFD-101A-1.4				0.375		
Class A				Pipe to Valve 1HP-152				
B09.021.009A	1RC-201-101	51A 1RC-201	NDE-35	PT	SS	2.500		This weld was listed previously as 1-51A-11-89 until iso 1-51A -11 (3) was redrawn. Revision 2 to isometric changed weld number from 1RC-201-3. Inspect this weld at the same time item number G04.001.003 is inspected.
	Circumferential	OFD-101A-1.4				0.375		
Class A	Stress weld			Pipe to Safe-End				
B09.021.029	1-51A-7-109	51A 1-51A-7(2)	NDE-35	PT	SS	2.000		
	Circumferential	OFD-101A-1.1				0.344		
Class A				Elbow to Pipe				
B09.021.053	1HP-190-1	51A 1HP-190	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-1.4				0.375		
Class A				Pipe to Elbow				
B09.021.054	1-51A-05-65C	51A 1-51A-05	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-1.4				0.375		
Class A				Pipe to Elbow				
B09.021.055	1-51A-05-62C	51A 1-51A-05	NDE-35	PT	SS	2.500		
	Circumferential	OFD-101A-1.4				0.375		
Class A				Elbow to Pipe				

**CATEGORY B-J, Pressure Retaining Welds In Piping**

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**Less Than NPS 4**

**Oconee 1**

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.021.056	1-51A-05-59C	51A 1-51A-05 OFD-101A-1.4	NDE-35	PT	SS	2.500 0.375		Pipe to Elbow
Class A	Circumferential							
B09.021.057	1-51A-05-56C	51A 1-51A-05 OFD-101A-1.4	NDE-35	PT	SS	2.500 0.375		Elbow to Pipe
Class A	Circumferential							
B09.021.063	1-51A-136-3	51A 1-51A-136 OFD-101A-1.1	NDE-35	PT	SS	3.000 0.438		Elbow to Pipe
Class A	Circumferential							
B09.021.067	1-51A-134A-43	51A 1-51A-134A OFD-101A-1.1	NDE-35	PT	SS	3.000 0.438		Elbow to Reducer Letdown Clr 1A
Class A	Circumferential							
B09.021.068	1-51A-136-36	51A 1-51A-136 OFD-101A-1.1	NDE-35	PT	SS	3.000 0.438		Reducer Letdown Clr. 1A to Pipe
Class A	Circumferential							
B09.021.069	1-PSP-24	50 ISI OCN1-016 1-50-03(1)	NDE-35	PT	SS 160	1.500 0.281		Tee 2.5 x 1.5 to Reducing Insert 1.5 x 0.5
Class A	Circumferential Stress weld							
B09.021.070	1-PSP-25	50 ISI OCN1-016 1-50-03(1)	NDE-35	PT	SS 160	1.500 0.281		Tee 2.5 x 1.5 to Reducing Insert 1.5 x 0.5
Class A	Circumferential Stress weld							
B09.021.071	1-PSP-8	50 ISI OCN1-016 1-50-03(1)	NDE-35	PT	SS 160	2.875 0.375		Pipe to Valve 1RC-3
Class A	Circumferential Stress weld							
B09.021.072	1RC-199-154	51A 1RC-199 OFD-101A-1.4	NDE-35	PT	SS	2.500 0.375		This weld was listed previously as 1-51A-11-94 until iso 1-51A-11 was redrawn. Revision 2 to iso changed weld number to 1-RC-199-154. Inspect this weld at the same time item number
Class A	Circumferential Stress weld							

**CATEGORY B-J, Pressure Retaining Welds In Piping**

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

**Less Than NPS 4**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
								G02.001.008A is inspected.

B09.021.073	1-PSP-6	50	ISI OCN1-016	NDE-35	PT	SS	2.875	
	Circumferential					160	0.375	
Class A	Stress weld					Elbow to Tee 2.5 x 1.5		
B09.021.076	1LP-102-10	53A	1LP-102	NDE-35	PT	SS	3.000	
	Circumferential		OFD-102A-1.1				0.438	
Class A						Valve 1LP-104 to Pipe		

**Total B09.021 Items: 18**

**CATEGORY B-J, Pressure Retaining Welds In Piping**

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

**Branch Pipe Connection Welds**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Less Than NPS 4 ****</b>								
B09.032.001	1-PIA1-10	50 ISI OCN1-007 B&W 131918E6	NDE-25	MT	CS	12.000 2.250		The NPS of the branch piping is 1.5 inches.
Class A	Branch							Nozzle Nozzle to Pipe
B09.032.006	1-PDA2-10	50 ISI OCN1-012 OM-201-597	NDE-25	MT	CS	12.000 2.250		The NPS of the branch piping is 2.5 inches.
Class A	Branch Stress weld							Pipe to Nozzle Pressure injection nozzle
B09.032.007	1-PDB1-10	50 ISI OCN1-013 OM-201-597	NDE-25	MT	CS	12.000 2.250		The NPS of the branch piping is 2.5 inches.
Class A	Branch Stress weld							Pipe to Nozzle Pressure injection nozzle
<b>Total B09.032 Items:</b>		<b>3</b>						

**CATEGORY B-J, Pressure Retaining Welds In Piping**

**DUKE ENERGY CORPORATION  
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Inservice Inspection Database Management System**

**Socket Welds**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
B09.040.012	1-51A-135-25	51A 1-51A-135	NDE-35	PT	SS		2.000	
	Socket	OFD-101A-1.1					3.440	
Class A								Elbow to Pipe
B09.040.014	1-50-01-179	50 1-50-01(1)	NDE-35	PT	SS		1.500	
	Socket				160		0.281	
Class A								Pipe to Elbow
B09.040.015	1-50-01-183	50 1-50-01(1)	NDE-35	PT	SS		1.500	
	Socket				160		0.281	
Class A								Pipe to Valve 1RC-29
B09.040.016	1-50-01-206	50 1-50-01(1)	NDE-35	PT	SS		1.500	
	Socket				160		0.281	
Class A								Pipe to Valve 1RC-24
B09.040.017	1-50-01-209	50 1-50-01(1)	NDE-35	PT	SS		1.500	
	Socket				160		0.281	
Class A								Pipe to Elbow

**Total B09.040 Items: 5**

**Total B09 Items: 42**

**CATEGORY B-N-1, Interior of Reactor Vessel**

DUKE ENERGY CORPORATION  
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**Reactor Vessel**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Vessel Interior ****</b>								
B13.010.001	1-RPV-INT-SURFACE 50	OM-201-1008 ISI OCN1-001	QAL-14	VT-3	SS		0.000 0.000	Reactor Vessel - Interior Surfaces of Vessel.
Class A				Interior Surfaces to				
<b>Total B13.010 Items:</b>		<b>1</b>						
<b>Total B13 Items:</b>		<b>1</b>						

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

**DUKE ENERGY CORPORATION  
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**Reactor Vessel**

**Oconee 1**

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Welds in CRD Housing ****</b>								
B14.010.002	1-RPV-CRD-46WH9	50 OM-201-2186 OM-201-1059	NDE-35	PT	SS-Inconel	4.025 0.650		CRDM Housing Body MK-67 to Adapter MK-55.
	Class A							Housing Body to Adapter
B14.010.005	1-RPV-CRD-46W60	50 DPS 706599-1056 OFD-100A-1.1	NDE-35	PT	SS-CS	5.000 0.500		CRDM Base to Motor Tube - CRDM # 46.
	Class A							Base to Motor Tube
B14.010.008	1-RPV-CRD-46	50 DPS 706599-1056 OFD-100A-1.1	NDE-35	PT	SS-CS	4.300 0.400		CRDM Motor Tube to Extension - CRDM #46.
	Class A							Motor Tube to Extension
B14.010.011	1-RPV-CRD-46W61	50 DPS 706605-1058 OFD-100A-1.1	NDE-35	PT	SS	4.190 0.380		Peripheral CRDM Extension to Cap - CRDM # 46.
	Class A							Extension to Cap
<b>Total B14.010 Items:</b>		<b>4</b>						
<b>Total B14 Items:</b>		<b>4</b>						

**CATEGORY C-A, Pressure Retaining Welds  
In Pressure Vessels**

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

**Shell Circumferential Welds**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C01.010.003	1-SGB-WG8-1	03 ISI-OCN1-004	NDE-620	UT	CS	138.000	40339	Steam Generator 1B Shell Pc. 01 to Shell Pc. 02. Calibration block 50236 is being added as a result of revision 8 to examination procedure NDE-620. Depending upon the examiner's qualifications, procedure PDI-UT-6 may be used in lieu of procedure NDE-620.
	Circumferential	OM-201-1873	See			4.188	50236	
	Class B		Comment	SGB Shell to SGB Shell				
<b>Total C01.010 Items:</b>		<b>1</b>						
<b>Total C01 Items:</b>		<b>1</b>						

**CATEGORY C-B, Pressure Retaining Nozzle**

**Welds In Vessels**

DUKE ENERGY CORPORATION  
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**Nozzles Without Reinforcing Plate In Vessels >  
 1/2 in. Nom. Thickness**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Nozzle-to-Shell (or Head) Weld ****</b>								
C02.021.001	1-SGA-WG23-1	03 ISI-OCN1-003	NDE-620	UT	CS	29.000	40338	Steam Generator 1A Outlet Nozzle, W-X Axis, Piece 14 to Shell Pc. 03.
	Circumferential	OM-201-1873	See			6.750	50236	Calibration block 50236 is being added as a result of revision 8 to examination procedure NDE-620. Depending upon the examiner's qualifications, procedure PDI-UT-6 may be used in lieu of procedure NDE-620.
Class B		OM-201-0034	Comment	Outlet Nozzle to Shell				
C02.021.001A	1-SGA-WG23-1	03 ISI-OCN1-003	NDE-25	MT	CS	29.000		Steam Generator 1A Outlet Nozzle, W-X Axis, Piece 14 to Shell Pc. 03.
	Circumferential	OM-201-1873				6.750		
Class B		OM-201-0034		Outlet Nozzle to Shell				
<b>Total C02.021 Items:</b>		<b>2</b>						
<b>Total C02 Items:</b>		<b>2</b>						



**CATEGORY C-C, Integral Attachments For  
Vessels, Piping, Pumps, And Valves**

**DUKE ENERGY CORPORATION  
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**Piping**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C03.020.063	1-54A-R6	54A 3-0-436D	NDE-35	PT	SS	8.000		Calcalaton No. OSC-1628 Page 60; Problem No. 1-54-01 Sheet 1 of 1. System 54A Auxiliary Building.
	Rigid Restraint	OFD-103A-1.1				0.750		
Class B								
C03.020.081	1-51-SR50	51B 0-444	NDE-35	PT	SS	4.000		Integral Attachment Inspect with F01.020.047
	Rigid Restraint	OFD-101A-1.1				0.750		
Class B								
C03.020.085	1-51-SR9	51B 0-436D	NDE-35	PT	SS	4.000		Integral Attachment Inspect with F01.020.051
	Rigid Restraint	OFD-101A-1.1				0.750		
Class B								
<b>Total C03.020 Items:</b>		<b>11</b>						
<b>Total C03 Items:</b>		<b>11</b>						

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

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

Oconee 1

Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>								
C05.011.006	1-53A-02-65L	53A 1-53A-02(1)	NDE-600	UT	SS	10.000		Inspecting this weld in order to meet 7.5% of system 53B. Borrowing from system 53A category C5.11.
	Circumferential	OFD-102A-1.2				1.125		
	Class B			Valve 1LP-47 to Pipe				
C05.011.006A	1-53A-02-65L	53A 1-53A-02(1)	NDE-35	PT	SS	10.000		Inspecting this weld in order to meet 7.5% of system 53B. Borrowing from system 53A category C5.11.
	Circumferential	OFD-102A-1.2				1.125		
	Class B			Valve 1LP-47 to Pipe				
<b>Total C05.011 Items:</b>		<b>2</b>						

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

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

Oconee 1

Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>								
C05.021.004	1-51A-04-1C	51A 1-51A-04 OFD-101A-1.4	NDE-600	UT	SS		4.000 0.674	Pipe to Valve 1HP-194
Class B	Circumferential							
C05.021.004A	1-51A-04-1C	51A 1-51A-04 OFD-101A-1.4	NDE-35	PT	SS		4.000 0.674	Pipe to Valve 1HP-194
Class B	Circumferential							
C05.021.010	1-51A-123-1	51A 1-51A-123 OFD-101A-1.4	NDE-600	UT	SS		4.000 0.531	Elbow to Pipe
Class B	Circumferential							
C05.021.010A	1-51A-123-1	51A 1-51A-123 OFD-101A-1.4	NDE-35	PT	SS		4.000 0.531	Elbow to Pipe
Class B	Circumferential							
C05.021.015	1-51A-124-4	51A 1-51A-124 OFD-101A-1.3	NDE-600	UT	SS		4.000 0.531	Elbow to Pipe
Class B	Circumferential							
C05.021.015A	1-51A-124-4	51A 1-51A-124 OFD-101A-1.3	NDE-35	PT	SS		4.000 0.531	Elbow to Pipe
Class B	Circumferential							
C05.021.021	1HP-184-5	51A 1HP-184 OFD-101A-1.4	NDE-600	UT	SS		4.000 0.531	Elbow to Pipe
Class B	Circumferential							
C05.021.021A	1HP-184-5	51A 1HP-184 OFD-101A-1.4	NDE-35	PT	SS		4.000 0.531	Elbow to Pipe
Class B	Circumferential							

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

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

Oconee 1

## Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.027	1HP-191-4	51A 1HP-191	NDE-600	UT	SS	4.000		
	Circumferential	OFD-101A-1.4				0.531		
Class B				Elbow to Pipe				
C05.021.027A	1HP-191-4	51A 1HP-191	NDE-35	PT	SS	4.000		
	Circumferential	OFD-101A-1.4				0.531		
Class B				Elbow to Pipe				
C05.021.033	1HP-200-17	51A 1HP-200	NDE-600	UT	SS	4.000		This weld was previously listed as weld 1-51A-14-17 until the iso was redrawn.
	Circumferential	OFD-101A-1.1				0.674		
Class B				Pipe to Pipe				
C05.021.033A	1HP-200-17	51A 1HP-200	NDE-35	PT	SS	4.000		This weld was previously listed as weld 1-51A-14-17 until the iso was redrawn.
	Circumferential	OFD-101A-1.1				0.674		
Class B				Pipe to Pipe				
C05.021.042	1HP-282-87AB	51A 1HP-282	NDE-600	UT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 53B. Borrowing from system 51A category C5.21. This weld was listed previously as 1-51A-01-87AB until iso 1-51A-01 part 3 was redrawn.
	Circumferential	OFD-101A-1.3				0.531		
Class B				Pipe to Tee				
C05.021.042A	1HP-282-87AB	51A 1HP-282	NDE-35	PT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 53B. Borrowing from system 51A category C5.21. This weld was listed previously as 1-51A-01-87AB until iso 1-51A-01 part 3 was redrawn.
	Circumferential	OFD-101A-1.3				0.531		
Class B				Pipe to Tee				
C05.021.048	1-51A-01-118A	51A 1-51A-01(4)	NDE-600	UT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 53B. Borrowing from system 51A category C5.21.
	Circumferential	OFD-101A-1.3				0.531		
Class B				Valve 1HP-118 to Elbow				
C05.021.048A	1-51A-01-118A	51A 1-51A-01(4)	NDE-35	PT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 53B. Borrowing from system 51A category C5.21.
	Circumferential	OFD-101A-1.3				0.531		
Class B				Valve 1HP-118 to Elbow				
C05.021.054	1-51A-02-20B	51A 1-51A-02	NDE-600	UT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 53B. Borrowing from system 51A category C5.21.
	Circumferential	OFD-101A-1.4				0.531		
Class B				Valve 1HP-135 to Pipe				

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

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

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.054A	1-51A-02-20B	51A 1-51A-02	NDE-35	PT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 53B. Borrowing from system 51A category C5.21
	Circumferential	OFD-101A-1.4				0.531	Valve 1HP-135 to Pipe	
	Class B							
C05.021.058	1-51A-03-70B	51A 1-51A-03(1)	NDE-600	UT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 54A. Borrowing from system 51A category C5.21.
	Circumferential	OFD-101A-1.4				0.531	Pipe to Elbow	
	Class B							
C05.021.058A	1-51A-03-70B	51A 1-51A-03(1)	NDE-35	PT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 54A. Borrowing from system 51A category C5.21
	Circumferential	OFD-101A-1.4				0.531	Pipe to Elbow	
	Class B							
C05.021.064	1HP-193-17	51A 1HP-193	NDE-600	UT	SS	2.500		Inspecting this weld in order to meet 7.5% of system 54A. Borrowing from system 51A category C5.21.
	Circumferential	OFD-101A-1.4				0.375	Tee to Pipe	
	Class B							
C05.021.064A	1HP-193-17	51A 1HP-193	NDE-35	PT	SS	2.500		Inspecting this weld in order to meet 7.5% of system 54A. Borrowing from system 51A category C5.21
	Circumferential	OFD-101A-1.4				0.375	Tee to Pipe	
	Class B							
C05.021.071	1-51A-137-25	51A 1-51A-137	NDE-600	UT	SS	2.500		Inspecting this weld in order to meet 7.5% of system 54B. Borrowing from system 51A category C5.21.
	Circumferential	OFD-101A-1.1				0.375	Elbow to Pipe	
	Class B							
C05.021.071A	1-51A-137-25	51A 1-51A-137	NDE-35	PT	SS	2.500		Inspecting this weld in order to meet 7.5% of system 54B. Borrowing from system 51A category C5.21
	Circumferential	OFD-101A-1.1				0.375	Elbow to Pipe	
	Class B							
C05.021.080	1-51A-01-84A	51A 1-51A-01(3)	NDE-600	UT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 51B. Borrowing from system 51A Category C5.21
	Circumferential	OFD-101A-1.3				0.531	Elbow to Elbow	
	Class B							
C05.021.080A	1-51A-01-84A	51A 1-51A-01(3)	NDE-35	PT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 51B. Borrowing from system 51A Category C5.21
	Circumferential	OFD-101A-1.3				0.531	Elbow to Elbow	
	Class B							

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

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

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.086	1-51A-02-16BH	51A 1-51A-02	NDE-600	UT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 51B. Borrowing from system 51A Category C5.21
Class B	Circumferential	OFD-101A-1.4		Pipe to Flange		0.531		
C05.021.086A	1-51A-02-16BH	51A 1-51A-02	NDE-35	PT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 51B. Borrowing from system 51A Category C5.21
Class B	Circumferential	OFD-101A-1.4		Pipe to Flange		0.531		
C05.021.092	1-51A-02-56B	51A 1-51A-02	NDE-600	UT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 51B. Borrowing from system 51A Category C5.21
Class B	Circumferential	OFD-101A-1.3		Elbow to Pipe		0.531		
C05.021.092A	1-51A-02-56B	51A 1-51A-02	NDE-35	PT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 51B. Borrowing from system 51A Category C5.21
Class B	Circumferential	OFD-101A-1.3		Elbow to Pipe		0.531		
C05.021.098	1HP-192-5A	51A 1HP-192	NDE-600	UT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 51B. Borrowing from system 51A Category C5.21
Class B	Circumferential	OFD-101A-1.4		Elbow to Pipe		0.531		
C05.021.098A	1HP-192-5A	51A 1HP-192	NDE-35	PT	SS	4.000		Inspecting this weld in order to meet 7.5% of system 51B. Borrowing from system 51A Category C5.21
Class B	Circumferential	OFD-101A-1.4		Elbow to Pipe		0.531		
C05.021.108	1-51A-01-101A	51A 1-51A-01(4)	NDE-600	UT	SS	3.000		
Class B	Circumferential	OFD-101A-1.3		Elbow to Valve 1HP-110		0.438		
C05.021.108A	1-51A-01-101A	51A 1-51A-01(4)	NDE-35	PT	SS	3.000		
Class B	Circumferential	OFD-101A-1.3		Elbow to Valve 1HP-110		0.438		
C05.021.114	1HP-199-2	51A 1HP-199	NDE-600	UT	SS	4.000		
Class B	Circumferential	OFD-101A-1.1		Pipe to Elbow		0.531		

**CATEGORY C-F-1, Pressure Retaining Welds  
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**Piping Welds > 1/5 in. Nom Wall For Piping >=  
NPS 2 And <= NPS 4**

Oconee 1

Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.021.114A	1HP-199-2	51A 1HP-199	NDE-35	PT	SS		4.000	
	Circumferential	OFD-101A-1.1					0.531	
	Class B			Pipe to Elbow				

**Total C05.021 Items: 36**

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

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**Pipe Branch Connections of Branch Piping >=  
NPS 2**

Oconee 1

Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>								
C05.041.006	1LP-004-12J	53B 1LP-004 OFD-101A-1.3	NDE-35	PT	SS	6.000 0.134		This weld was previously listed as 1-53B-04-12J before the Iso was redrawn.
	Branch							Pipe to Pipe
C05.041.007	1LP-004-12JA	53B 1LP-004 OFD-101A-1.3	NDE-35	PT	SS	6.000 0.134		Reinforcing collar weld at weld 12J. This weld was previously listed as 1-53B-04-12JA before the Iso was redrawn.
	Branch							Reinforcing collar to Pipe
C05.041.033	1-51A-01-54A	51A 1-51A-01(2) OFD-101A-1.3	NDE-35	PT	SS	3.000 0.216		This is a saddle weld - 3" pipe to 6" pipe.
	Branch							Pipe to Pipe
<b>Total C05.041 Items: 3</b>								

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

**DUKE ENERGY CORPORATION  
QUALITY ASSURANCE TECHNICAL SERVICES  
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**Piping Welds <sup>3</sup> 3/8 in. Nominal Wall Thickness for  
Piping > NPS 4**

Oconee 1

Inservice Inspection Plan for Interval 3 Outage 4

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
<b>**** Circumferential Weld ****</b>								
C05.051.008	1MS-001-29E	01A 1MS-001 OFD-122A-1.2	NDE-600	UT	CS	12.000 0.562		This weld was previously listed as 1-01A-01-29E before the Iso was redrawn.
	Class B						Pipe to Elbow	
C05.051.008A	1MS-001-29E	01A 1MS-001 OFD-122A-1.2	NDE-25	MT	CS	12.000 0.562		This weld was previously listed as 1-01A-01-29E before the Iso was redrawn.
	Class B						Pipe to Elbow	
C05.051.016	1-MS2A-A	01A 1MS-074	NDE-600	UT	CS	24.000 0.875		Grinnell subassembly MS-2A.
	Class B						Elbow to Pipe	
C05.051.016A	1-MS2A-A	01A 1MS-074	NDE-25	MT	CS	24.000 0.875		Grinnell subassembly MS-2A.
	Class B						Elbow to Pipe	
C05.051.021	1-03-3-43B	03 1-03-3(1) OFD-121B-1.3	NDE-600	UT	CS	24.000 1.219		
	Class B						Elbow to Pipe	
C05.051.021A	1-03-3-43B	03 1-03-3(1) OFD-121B-1.3	NDE-25	MT	CS	24.000 1.219		
	Class B						Elbow to Pipe	
C05.051.027	1-FWD65-A	03 1-03-3(1)	NDE-600	UT	CS	20.000 1.031		Grinnell subassembly FWD-65.
	Class B						Pipe to Elbow	
C05.051.027A	1-FWD65-A	03 1-03-3(1)	NDE-25	MT	CS	20.000 1.031		Grinnell subassembly FWD-65
	Class B						Pipe to Elbow	

**CATEGORY C-F-2, Pressure Retaining Welds  
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**Piping Welds <sup>3</sup> 3/8 in. Nominal Wall Thickness for  
Piping > NPS 4**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.051.029	1-FWD87-A Circumferential Class B	03 1-03-3(1)	NDE-600	UT	CS	14.000 0.750		Grinnell subassembly FWD-87.
								Elbow to Pipe
C05.051.029A	1-FWD87-A Circumferential Class B	03 1-03-3(1)	NDE-25	MT	CS	14.000 0.750		Grinnell subassembly FWD-87.
								Elbow to Pipe
C05.051.034	1-20B-21-16-7 Circumferential Class B	20B 1-20B-21-16 OFD-116A-1.1	NDE-600	UT	CS	48.000 0.500		
								Pipe to Valve 1PRV-6
C05.051.034A	1-20B-21-16-7 Circumferential Class B	20B 1-20B-21-16 OFD-116A-1.1	NDE-25	MT	CS	48.000 0.500		
								Pipe to Valve 1PRV-6
C05.051.043	1LPSW-345-35 Circumferential Class B	14B 1LPSW-345 OFD-124B-1.2	NDE-600	UT	CS	8.000 0.500		This weld was listed previously as 1-LPSW-345-35 until iso 1-LPSW-345 was redrawn. This weld was listed previously as 1-LPS-345-35 until iso 1-LPS-345 was deleted.
								Pipe to Tee
C05.051.043A	1LPSW-345-35 Circumferential Class B	14B 1LPSW-345 OFD-124B-1.2	NDE-25	MT	CS	8.000 0.500		This weld was listed previously as 1-LPSW-345-35 until iso 1-LPSW-345 was redrawn. This weld was listed previously as 1-LPS-345-35 until iso 1-LPS-345 was deleted.
								Pipe to Tee
C05.051.048	1-LPSW-346-19 Circumferential Class B	14B 1-LPSW-346 OFD-124B-1.2	NDE-600	UT	CS	8.000 0.500		
								Elbow to Pipe
C05.051.048A	1-LPSW-346-19 Circumferential Class B	14B 1-LPSW-346 OFD-124B-1.2	NDE-25	MT	CS	8.000 0.500		
								Elbow to Pipe
C05.051.053	1-14-19-47M Circumferential Class B	14B 1-14-19 OFD-124B-1.2	NDE-600	UT	CS	8.000 0.500		
								Pipe to Valve 1LPSW-16

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

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

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
C05.051.053A	1-14-19-47M	14B 1-14-19	NDE-25	MT	CS	8.000		
	Circumferential	OFD-124B-1.2				0.500		
Class B				Pipe to Valve 1LPSW-16				
C05.051.054	1-14-19-47MA	14B 1-14-19	NDE-600	UT	CS	8.000		
	Circumferential	OFD-124B-1.2				0.500		
Class B				Pipe to Elbow				
C05.051.054A	1-14-19-47MA	14B 1-14-19	NDE-25	MT	CS	8.000		
	Circumferential	OFD-124B-1.2				0.500		
Class B				Pipe to Elbow				

**Total C05.051 Items: 20**

**Total C05 Items: 61**

**CATEGORY D-B, Systems In Support Of ECC,  
CHR, Atmos. Cleanup, And Reactor RHR**

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**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Component Supports and Restraints ****</b>								
D02.020.004	1-03-H49	03 0-551	QAL-14	VT-3	NA		24.000	Calculation No.OS-336 Page45A.1;Problem No.1-03-01 Sheet 1 of 2.System 03 Auxiliary and Turbine Building
	Rigid Restraint	OFD-121B-1.3					2.500	
	Class C							
D02.020.005	1-03-H51	03 0-551	QAL-14	VT-3	NA		24.000	Calculation No. OS-336 Page 45a.1; Problem No. 1-03-01 Sheet 1 of 2. System 03 Auxiliary and Turbine Building.
	Rigid Restraint	OFD-121B-1.3					2.500	
	Class C			Sway Strut to				
D02.020.012	1-03A-H11	03A 1-0-439C	QAL-14	VT-3	NA		6.000	Calculaton No. OSC-1224-19 Page 27;Problem No.1- 03A-13. System 03A AUX. SERVICE WATER PIPE
	Rigid Restraint	OFD-121D-1.1					0.375	
	Class C							
D02.020.013	1-03A-H12	03A 1-0-439C	QAL-14	VT-3	NA		6.000	Calculaton No. OSC-1224-19 Page 27;Problem No.1- 03A-13. System 03A AUX. SERVICE WATER PIPE
	Rigid Restraint	OFD-121D-1.1					0.500	
	Class C							
D02.020.018	1-03A-H201	03A 1-0-400A	QAL-14	VT-3	NA		6.000	Calculaton No. OSC-1215 Page 21; Problem No.1- 03A-12. System 03A EMER. FEED.WTR. DISCHARGE
	Rigid Restraint	OFD-121D-1.1					0.203	
	Class C			SS to				
D02.020.019	1-03A-H24	03A 1-0-439A	QAL-14	VT-3	NA		6.000	Calculaton No. OSC-1224-19 Page 27;Problem No.1- 03A-13. System 03A AUX. SERVICE WATER PIPE
	Rigid Restraint	OFD-121D-1.1					0.500	
	Class C							
D02.020.020	1-03A-H28	03A 1-0-439B	QAL-14	VT-3	NA		6.000	Calculaton No. OSC-1224-19 Page 27;Problem No.1- 03A-13. System 03A AUX. SERVICE WATER PIPE
	Rigid Restraint	OFD-121D-1.1					0.216	
	Class C							

**CATEGORY D-B, Systems In Support Of ECC,  
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**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
D02.020.032	1-03A-H72 Rigid Restraint Class C	03A 1-0-439A OFD-121D-1.1	QAL-14	VT-3	NA	6.000 0.500		Calcuton No. OSC-339 Page 81; Problem No. 1-03A-5 . System 03A 6"EMER. F.WTR. TO 24"MAIN F.WTR.
D02.020.042	1-03A-SR18 Rigid Restraint Class C	03A 1-0-401A OFD-121D-1.1	QAL-14	VT-3	NA	6.000 1.000		Calcuton No. OSC-343 Page 49; Problem No. 03A-10 . System 03A 6"EMER. FEED.WTR.
D02.020.046	1-03A-SR39 Rigid Restraint Class C	03A 1-0-439A OFD-121D-1.1	QAL-14	VT-3	NA	6.000 1.000		Calcuton No. OSC-1224-19 Page 27;Problem No.1- 03A-13. System 03A AUX. SERVICE WATER PIPE
D02.020.049	1-03A-SR47 Rigid Restraint Class C	03A 1-0-439B OFD-121D-1.1	QAL-14	VT-3	NA	6.000 1.000		Calcuton No. OSC-339 Page 80; Problem No. 1-03A-5 . System 03A 6"EMER. F.WTR. TO 24"MAIN F.WTR.
D02.020.057	1-03A-SR86 Rigid Restraint Class C	03A 1-0-400B OFD-121D-1.1	QAL-14	VT-3	NA	6.000 1.000		Calcuton No. OSC-342 Page 104; Problem No. 03A-9 . System 03A 6"EMER. F.WTR. BYPASS
D02.020.058	1-03A-SR87 Rigid Restraint Class C	03A 1-0-400B OFD-121D-1.1	QAL-14	VT-3	NA	6.000 0.500		Calcuton No. OSC-1215 Page 21; Problem No.1- 03A-12. System 03A EMER. FEED.WTR. DISCHARGE
D02.020.073	1-08-H4056 Rigid Restraint Class C	08 0-400A OFD-122A-1.4	QAL-14	VT-3	NA	10.000 0.250		Calculation Number OSC-1902 Sheet 2 of 2; Problem 1-08-01 Page 39. System 08 Emergency Feedwater Pump Turbine Exhaust to Condenser1B.
D02.020.080	1-14B-DE036 Rigid Restraint Class C	14B 0-437A OFD-124B-1.1	QAL-14	VT-3	NA	16.000 0.187		Calcuton No. OSC-396; Problem No. 1-14-04 SHT.2 OF 3. System 14B;PAGE 77; LP SERVICE WATER DISCHARGE

FIG# 162 to

**CATEGORY D-B, Systems In Support Of ECC,  
CHR, Atmos. Cleanup, And Reactor RHR**

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**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
D02.020.092	1-14B-SR38	14B 0-437A	QAL-14	VT-3	NA		16.000	Calcalaton No. OSC-396;
	Rigid Restraint	OFD-124B-1.1					2.000	Problem No. 1-14-04 SHT.2 OF 3. System
	Class C							14B;PAGE 77; LP SERVICE WATER DISCHARGE
D02.020.100	1-14B-SR62	14B 0-437A	QAL-14	VT-3	NA		20.000	Calcalaton No. OSC-1541;
	Rigid Restraint	OFD-124B-1.1					1.000	Problem No. 1-14-06 SHT. 1 OF 3. System
	Class C							14B;PAGE 100.1; LPSW SUPPLY TO RB COMPONENT COOLERS & LP COOLERS 1A & 1B

**Total D02.020 Items: 17**

**CATEGORY D-B, Systems In Support Of ECC,  
CHR, Atmos. Cleanup, And Reactor RHR**

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

**Integral Attachment**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
<b>**** Spring Type Supports ****</b>								
D02.040.002	1-02A-H12	01A 1-0-403A	QAL-14	VT-3	NA		6.000	Calculation Number OSC-325 Sheet 3 of 3; Problem 1-01-06 Page 91. System 01A Steam Supply to Emergency Feedwater Pump Turbine.
	Spring Hgr	OFD-122A-1.4					0.500	
Class C								
<b>Total D02.040 Items:</b>		<b>1</b>						
<b>Total D02 Items:</b>		<b>18</b>						

**CATEGORY D-C, Systems In Support Of RHR  
From Spent Fuel Storage Pool**

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

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**Integral Attachment**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
<b>**** Component Supports and Restraints ****</b>								
D03.020.005	1-56-H34	56 2-0-437B	QAL-14	VT-3	NA	8.000		Calcalaton No. OS-421
	Rigid Restraint	OFD-104A-1.2				0.125		Page 95; Problem No.4-56-02. System 56 Spent Fuel Cooling Fig.162 Size 8
	Class C							
D03.020.014	1-56-SR14	56 0-438C	QAL-14	VT-3	NA	8.000		Calcalaton No. OSC-421
	Rigid Restraint	OFD-104A-1.1				0.750		Page 93; Problem No.4-56-02 Spent Fuel Cooling System 56
	Class C							
D03.020.015	1-56-SR15	56 0-438C	QAL-14	VT-3	NA	8.000		Calcalaton No. OSC-421
	Rigid Restraint	OFD-104A-1.1				0.500		Page 93; Problem No.4-56-02 Spent Fuel Cooling System 56
	Class C							
D03.020.018	1-56-SR22	56 0-439A	QAL-14	VT-3	NA	8.000		Calcalaton No. OSC-421
	Rigid Restraint	OFD-104A-1.1				0.750		Page 94; Problem No.4-56-02 Spent Fuel Cooling System 56
	Class C							
D03.020.019	1-56-SR23	56 4-0-443	QAL-14	VT-3	NA	8.000		Calcalaton No. OSC-421
	Rigid Restraint	OFD-104A-1.1				0.500		Page 94; Problem No.4-56-02 Spent Fuel Cooling System 56
	Class C							
D03.020.020	1-56-SR24	56 0-443	QAL-14	VT-3	NA	8.000		Calcalaton No. OSC-421
	Rigid Restraint	OFD-104A-1.1				0.500		Page 94; Problem No.4-56-02 Spent Fuel Cooling System 56
	Class C							
D03.020.022	1-56-SR9	56 0-437B	QAL-14	VT-3	NA	8.000		Calcalaton No. OS-421
	Rigid Restraint	OFD-104A-1.2				0.750		Page 95; Problem No.4-56-02. System 56 Spent Fuel Cooling
	Class C							

**Total D03.020 Items: 7**

**Total D03 Items: 7**

**CATEGORY F-A, Supports (Category A)**

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**Class 1 Mech. Conn. to Press. Retaining Comp. &  
 Bld. Structure**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.010.008	1-59-H33	59 0-478A	QAL-14	VT-3	NA	1.500		Calculation Number OSC-1311-06 Sheet 2 of 2; Problem 1-59-03 . System 59 Reactor Building Component Drain
	Rigid Restraint	OFD-100A-1.1				0.375		
Class A								
<b>Total F01.010 Items:</b>		<b>1</b>						
F01.011.005	1-53-H2	53 0-479A	QAL-14	VT-3	NA	12.000		Calculaton No. OSC-1301-06; Problem No. 1-53-07; PAGE# 91; SYSTEM 53A; DECAY HEAT REMOVAL SYS
	Rigid Restraint	OFD-102A-1.1				0.750		
Class A								
<b>Total F01.011 Items:</b>		<b>2</b>						
F01.011.006	1-53A-H36C	53A 0-481A	QAL-14	VT-3	NA	1.500		File OSC-1304-06 page 63. Low Pressure Injection to Pressurizer Spray.
	Rigid Restraint	OFD-100A-1.2				0.000		
Class A								
<b>Total F01.011 Items:</b>		<b>2</b>						
F01.012.017	1-50-RCPM-S9	50 0-66A	QAL-14	VT-3	NA	5.000		Calculaton No. OSC-0971-01-0009, Reactor Coolant Pump 1B1 Motor Snubbers. Reference PIP 0-096-1575. Inspect with F01.050.101.
	Hyd Snubber	OFD-100A-1.1				0.000		
		OFD-100A-1.3						
Class A								
<b>Total F01.012 Items:</b>		<b>1</b>						

**CATEGORY F-A, Supports (Category A)**

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**QUALITY ASSURANCE TECHNICAL SERVICES**  
**Inservice Inspection Database Management System**

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**Class 2 Weld Connections to Building Structure**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.020.004	1-03-H1B	03 0-479A	QAL-14	VT-3	NA		14.000	Calculation No. OSC-1297-06 ; Problem No. 1-03-05 . System 03 Steam Generator 1B.
	Rigid Restraint	OFD-121B-1.3					0.280	
	Class B			SS to				
F01.020.013	1-51-DE064	51B 0-435C	QAL-14	VT-3	NA		6.000	Calculation No. OSC-1535 Page 136; Problem No. 1-51-2 Sheet 2 of 8. System 51
	Rigid Restraint	OFD-101A-1.3					0.000	
	Class B			SS to				
F01.020.018	1-51A-H2	51A 1-0-444	QAL-14	VT-3	NA		4.000	Calculation No. OSC-1539, page 73; Problem No. 1-51-07. High Pressure Injection.
	Rigid Restraint	OFD-101A-1.4					0.000	
	Class B	1-51-07		ss to				
F01.020.020	1-51A-SR58	51A 6-0-435B	QAL-14	VT-3	NA		6.000	Calculation No. OSC-1535 Page 136; Problem No. 1-51-2 Sheet 2 of 8. System 51
	Rigid Restraint	OFD-101A-1.3					0.000	
	Class B							
F01.020.026	1-53B-DE065	53B 0-435B	QAL-14	VT-3	NA		10.000	Calculation No. OS-407; Problem No. 1-53-1;SHT.1 OF 4 PAGE#104; SYSTEM 53B; LP INJECTION LINE
	Rigid Restraint	OFD-102A-1.1					0.000	
	Class B			SS to				
F01.020.030	1-53B-H33	53B 5-0-439C	QAL-14	VT-3	NA		10.000	Calculation Number OS-408 Sheet 2 of 3; Problem No. 1-53-02 . System 53B LPI Injection and Decay Heat Removal
	Rigid Restraint	OFD-102A-1.2					0.000	
	Class B							
F01.020.033	1-53B-H67	53B 5-0-435B	QAL-14	VT-3	NA		6.000	Calculation Number OS-408 Sheet 2 of 3; Problem No. 1-53-02 . System 53B LPI Injection and Decay Heat Removal
	Rigid Restraint	OFD-102A-1.2					0.000	
	Class B							
F01.020.047	1-51-SR50	51B 0-444	QAL-14	VT-3	NA		4.000	Calc No.=OSC-1538, Page 94 Problem No.=1-51-06,Sht. 2 of 3
	Rigid Restraint	OFD-101A-1.1					0.750	
	Class B							

**CATEGORY F-A, Supports (Category A)**

**DUKE ENERGY CORPORATION**  
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**Class 2 Weld Connections to Building Structure**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.020.051	1-51-SR9	51B 0-436D	QAL-14	VT-3	NA		4.000	Calc No.=OSC-400, Page 50
	Rigid Restraint	OFD-101A-1.1					0.750	Problem No.=1-51-01,Sht. 1 of 3
Class B								
<b>Total F01.020 Items:</b>		<b>9</b>						
F01.021.004	1-14B-H17B	14 0-479A	QAL-14	VT-3	NA		8.000	File OSC-1407 Sh 16. Low Pressure Service Water from Penetration 32 to Cooler1B.
	Rigid Restraint	OFD-124B-1.2					0.000	Problem No.1-14-14. This hanger is being moved to outage 4 so that we can inspect it during outage 4. This is due to construction related problems id'd in Unit 3 on like hangers. Hanger F01.022.018 will be moved to outage 5 to take this hangers place in the line-up.
Class B								
F01.021.015	1-53A-DBR-H0001	53A 0-479A	QAL-14	VT-3	NA		8.000	Calcalton No. OSC-1301-06;
	Rigid Restraint	OFD-102A-1.1					0.000	Problem No. 1-53-07; PAGE#93; SYSTEM 53A; DECAY HEAT REMOVAL SYS
Class B								
F01.021.017	1-53B-DE053	53B 0-439C	QAL-14	VT-3	NA		12.000	Calcalton No. OS-404;
	Rigid Restraint	OFD-102A-1.1					0.000	Problem No. 1-53-04;SHT.1 OF 1; PAGE#39; SYSTEM 53B; DECAY HEAT REMOVAL SYS & LP INJECTION
Class B								
F01.021.018	1-53B-H38	53B 2-0-435B	QAL-14	VT-3	NA		14.000	Calcalton No. OS-407;
	Rigid Restraint	OFD-102A-1.1					0.750	Problem No. 1-53-1;SHT.1 OF 4 PAGE#104; SYSTEM 53B; LP INJECTION LINE
Class B								
F01.021.020	1-53B-R8	53B 5-0-435	QAL-14	VT-3	NA		8.000	Calculation Number OS-408 Sheet 2 of 3; Problem No. 1-53-02 . System 53B LPI Injection and Decay Heat Removal
	Rigid Restraint	OFD-102A-1.2					1.000	
Class B								
F01.021.029	1-51A-H13C	51A 0-478A	QAL-14	VT-3	NA		2.500	Calc No. OSC-1660-11, Page 66 ; Problem No. 1-55-03 Sht. 2 of 4. System 51A
	Rigid Restraint	OFD-101A-1.1					0.000	
Class B								
<b>Total F01.021 Items:</b>		<b>6</b>						

**CATEGORY F-A, Supports (Category C)**

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**Class 2 Weld Connections to Building Structure**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.022.019	1-53B-H23	53B 5-0-436D	QAL-14	VT-3	NA		10.000	Calculation Number OS-408 Sheet 1 of 3; Problem No. 1-53-02 . System 53B LPI Injection and Decay Heat Removal
	Spring Hgr	OFD-102A-1.2					0.237	
Class B								
F01.022.021	1-53B-R3	53B 3-0-444	QAL-14	VT-3	NA		12.000	Calculaton No. OS-404; Problem No. 1-53-04;SHT.1 OF 1; PAGE#39; SYSTEM 53B; DECAY HEAT REMOVAL SYS & LP INJECTION
	Rigid Restraint	OFD-102A-1.1					0.375	
Class B								
F01.022.022	1-54A-DE015	54A 0-435B	QAL-14	VT-3	NA		8.000	Calculaton No. OSC-1628 Page 60; Problem No. 1-54-01, Sheet 1 of 1. System 54A Auxiliary Building. Inspect with Item No. F01.050.062
	Mech Snubber	OFD-103A-1.1					0.000	
Class B								

**Total F01.022 Items: 3**

**CATEGORY F-A, Supports (Category A)**

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**Class 3 Weld/Mech Conns at Inter Joints in**  
**Multiconn Int & Nonint Supp**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.030.007	1-03A-H131	03A 03A 1-400B	QAL-14	VT-3	NA		6.000	Calculaton No. OSC-1215 Page 21; Problem No.1- 03A-12. System 03A EMER. FEED.WTR. DISCHARGE
	Rigid Restraint	OFD-121D-1.1					0.000	
	Class C			SS to				
F01.030.026	1-14B-DE036	14B 0-437A	QAL-14	VT-3	NA		16.000	Calculaton No. OSC-396; Problem No. 1-14-04 SHT.2 OF 3. System 14B;PAGE 77; LP SERVICE WATER DISCHARGE
	Rigid Restraint	OFD-124B-1.1					0.187	
	Class C			FIG# 162 to				
F01.030.027	1-14B-DE064	14B 0-436D	QAL-14	VT-3	NA		8.000	Calculation No. OSC-394, page 79; Problem No. 4-14-3, sh. 4. Auxiliary Feed water Lines from Auxiliary Sevice Water Pump
	Rigid Restraint	OFD-121D-1.2					0.000	
	Class C	4-14-3						
F01.030.028	1-14B-DE086	14B 0-400B	QAL-14	VT-3	NA		24.000	Calculation No. OS-395 Page 40, problem no. 1-14A-01 page 1 of 2. Low Pressure Service Water
	Rigid Restraint	OFD-124A-1.1					0.000	
	Class C							
F01.030.038	1-56-JTC-2901	56 0-443	QAL-14	VT-3	NA		8.000	Calculaton No. OSC-421 Page 94; Problem No.4-56-02 Spent Fuel Cooling System 56
	Rigid Restraint	OFD-104A-1.1					0.000	
	Class C							
F01.030.039	1-56-SR14	56 0-438C	QAL-14	VT-3	NA		8.000	Calculaton No. OSC-421 Page 93; Problem No.4-56-02 Spent Fuel Cooling System 56
	Rigid Restraint	OFD-104A-1.1					0.750	
	Class C							
<b>Total F01.030 Items:</b>	<b>6</b>							
F01.031.003	1-03A-H120	03A 1-0-400B	QAL-14	VT-3	NA		6.000	Calculaton No. OSC-1214 Page 25; Problem No.1- 03A-11. System 03A 6"EMER. FEED.WTR.
	Rigid Restraint	OFD-121D-1.1					0.000	
	Class C							
F01.031.006	1-04A-R5	04A 2-0-439B	QAL-14	VT-3	NA		6.000	Calculaton No. OSC-1404 Page 77;Problem No.1- 04A-06. System 04A OTSG SECONDARY SIDE DRAIN TO COND.
	Rigid Restraint	OFD-121B-1.5					1.000	
	Class C							

**CATEGORY F-A, Supports (Category B)**

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**Class 3 Weld/Mech Conns at Inter Joints in**  
**Multiconn Int & Nonint Supp**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
F01.031.013	1-56-H5129	56 0-443	QAL-14	VT-3	NA		8.000	The inspection in outage 1 found the support to be unacceptable for service and this causes us to inspect this support again in outage 4 to meet the requirements of code case N-491 paragraph 2420(successive inspections).The inspection in outage 4 is a surveillance inspection.
	Rigid Restraint	OFD-104A-1.1					0.000	
Class C								
<b>Total F01.031 Items:</b>		<b>3</b>						
F01.032.002	1-02A-H12	01A 1-0-403A	QAL-14	VT-3	NA		6.000	Calculation Number OSC-325 Sheet 3 of 3; Problem 1-01-06 Page 91. System 01A Steam Supply to Emergency Feedwater Pump Turbine.
	Spring Hgr	OFD-122A-1.4					0.500	
Class C								
F01.032.007	1-07A-H8	07A 6-0-402A	QAL-14	VT-3	NA		8.000	Calculation No. OSC-362 Page 55; Problem No.1-07A-2 L.P.& H.P.Condensate System 07A
	Spring Hgr	OFD-121A-1.8					0.000	
Class C								
<b>Total F01.032 Items:</b>		<b>2</b>						

**CATEGORY F-A, Supports**

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**Clearances of Guides & Stops, Align of Supps,  
Assembly of Supp Items**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.040.014	1-LPSW-PU-B	14B OM-208-0027 OFD-124A-1.1	QAL-14	VT-3	NA		0.000 0.000	Low Pressure Service Water Pump 1B, Support Pad & Legs. Class C
								Class C
F01.040.016	1-MCD-C	07A OM-202-5 OM-202-25 OFD-121A-1.3	QAL-14	VT-3	NA		0.000 0.000	Main Condenser 1C Support Legs. Class C
								Class C
F01.040.017	1-RBCC-A	53A OM-2201-278 OFD-124B-1.1	QAL-14	VT-3	NA		0.000 0.000	Reactor Building Component Cooler "A" Support A & B. Class C
								Class C
F01.040.025	1-BWS-TANK	OM-201-684 OFD-102A-1.1	QAL-14	VT-3	NA		0.000 0.000	Borated Water Storage Tank Class B
								Class B
F01.040.028	1-CON-BOR-TANK	OM-201-61 OFD-106A-1.2	QAL-14	VT-3	NA		0.000 0.000	Concentrated Boric Acid Storage Tank Support Class C
								Class C
F01.040.029	1-PEN-ROOM-FLTR-A	OM-272-10 OFD-116B-1.1	QAL-14	VT-3	NA		0.000 0.000	Penetration Room Filter Train A Support Class C
								Class C
F01.040.030	1-PEN-ROOM-FAN 1A	O-485C OFD-116B-1.1	QAL-14	VT-3	NA		0.000 0.000	Penetration Room Fan 1A Support Class C
								Class C

**Total F01.040 Items: 7**

**CATEGORY F-A, Supports**

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**Spring Supports & Constant Load Supports**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.001	1-50-H12 Hyd Snubber Class A	50 0-479A OFD-100A-1.1	QAL-14	VT-3	NA	2.500 0.000		Calcutaton No. OSC-1314-06 Page 129; Problem No.1-50-01 Pressurizer Spray System System 50
F01.050.002	1-50-H1A Hyd Snubber Class A	50 0-479A OFD-100A-1.1	QAL-14	VT-3	NA	10.000 0.000		Pressurizer Surge Lines
F01.050.003	1-50-H2A Hyd Snubber Class A	50 0-479A OFD-100A-1.1	QAL-14	VT-3	NA	10.000 0.000		Pressurizer Surge Lines.
F01.050.004	1-50-H3 Hyd Snubber Class A	50 0-481A OFD-100A-1.2 1-50-01	QAL-14	VT-3	NA	2.500 0.154		File OSC-1314-06 page 129. Pressurizer Relief Valve System
F01.050.005	1-50-H3A Hyd Snubber Class A	50 0-479A OFD-100A-1.1	QAL-14	VT-3	NA	10.000 0.000		Pressurizer Surge Lines
F01.050.006	1-50-H7 Hyd Snubber Class A	50 0-481A OFD-100A-1.1	QAL-14	VT-3	NA	2.500 0.500		Calcutaton No. OSC-1314-06 Page 129; Problem No.1-50-01 Pressurizer Spray System System 50
F01.050.007	1-50-H8 Hyd Snubber Class A	50 0-480A OFD-100A-1.1	QAL-14	VT-3	NA	2.500 0.000		Calcutaton No. OSC-1314-06 Page 129; Problem No.1-50-01 Pressurizer Spray System System 50
F01.050.008	1-50-H9 Hyd Snubber Class A	50 0-480A OFD-100A-1.1	QAL-14	VT-3	NA	2.500 0.000		Calcutaton No. OSC-1314-06 Page 129; Problem No.1-50-01 Pressurizer Spray System System 50

**CATEGORY F-A, Supports**

**DUKE ENERGY CORPORATION**  
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**Spring Supports & Constant Load Supports**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.009	1-50-H10 Hyd Snubber Class A	50 0-480A OFD-100A-1.1	QAL-14	VT-3	NA	2.500 0.000		Calcalaton No. OSC-1314-06 Page 129; Problem No.1-50-01 Pressurizer Spray System System 50
F01.050.011	1-50-H1 Hyd Snubber Class A	50 0-481A OFD-100A-1.2 1-50-01	QAL-14	VT-3	NA	2.500 0.000		File OSC-1314-06 page 129. Pressurizer Relief Valve System.
F01.050.012	1-51A-H17A Hyd Snubber Class A	51A 0-479A OFD-101A-1.4 1-51-15	QAL-14	VT-3	NA	2.500 0.145		Calculation No. OSC-1304-06, page 61; Problem No. 1-51-15. High Pressure Injection.
F01.050.013	1-53A-H5A Hyd Snubber Class B	53A 0-479A OFD-102A-1.1	QAL-14	VT-3	NA	12.000 0.000		Calcalaton No. OSC-1301-06; Problem No. 1-53-07; Page #92; System 53A; Decay Heat Removal System
F01.050.014	1-53A-H5B Hyd Snubber Class B	53A 0-479A OFD-102A-1.1	QAL-14	VT-3	NA	12.000 0.000		Calcalaton No. OSC-1301-06; Problem No. 1-53-07; Page #92; System 53A; Decay Heat Removal System.
F01.050.015	1-03-H7B Hyd Snubber Class B	03 0-480A OFD-121B-1.3	QAL-14	VT-3	NA	24.000 0.237		Calculation No. OSC-1297-06 ; Problem No. 1-03-05 . System 03 Steam Generator 1B .
F01.050.016	1-50-H11 Hyd Snubber Class A	50 0-480A OFD-100A-1.1	QAL-14	VT-3	NA	1.500 0.000		Calcalaton No. OSC-1314-06 Page 129; Problem No.1-50-01 Pressurizer Spray System System 50.
F01.050.017	1-03-H10A Hyd Snubber Class B	03 0-480B OFD-121B-1.3	QAL-14	VT-3	NA	20.000 0.000		Calculation No. OSC-1297-06; Problem No. 1-03-06 Sheet 1 of 2; System 03 Steam Generator 1A .
F01.050.018	1-53A-H40C Hyd Snubber Class A	53A 0-481A OFD-100A-1.2 1-50-01	QAL-14	VT-3	NA	1.500 0.000		File OSC-1314-06 page 129. Pressurizer Relief Valve System

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.019	1-53A-H41C Hyd Snubber Class A	53A 0-481A OFD-100A-1.2 1-50-01	QAL-14	VT-3	NA	2.500 0.000		File OSC-1314-06 page 129. Pressurizer Relief Valve System
F01.050.020	1-57-H10 Hyd Snubber Class C	57 0-481A OFD-100A-1.2	QAL-14	VT-3	NA	6.000 0.000		Calcalaton No. OS-1313-06 Page 44.1;Problem No.1-57-01. System 57 Pressurizer Relief Valve System
F01.050.021	1-57-H11 Hyd Snubber Class C	57 0-481A OFD-100A-1.2	QAL-14	VT-3	NA	6.000 0.000		Calcalaton No. OS-1313-06 Page 44.1;Problem No.1-57-01. System 57 Pressurizer Relief Valve System
F01.050.022	1-50-H13A Hyd Snubber Class A	50 0-481A OFD-100A-1.2	QAL-14	VT-3	NA	4.000 0.000		Calcalaton No. OS-1313-06 Page 44.1;Problem No.1-50-01. System 50 Pressurizer Relief Valve System.
F01.050.023	1-57-H14 Hyd Snubber Class C	57 0-481A OFD-100A-1.2	QAL-14	VT-3	NA	8.000 0.216		Calcalaton No. OS-1313-06 Page 44.1;Problem No.1-57-01. System 57 Pressurizer Relief Valve System.
F01.050.024	1-57-H15 Hyd Snubber Class C	57 0-481A OFD-100A-1.2	QAL-14	VT-3	NA	8.000 0.000		Calcalaton No. OS-1313-06 Page 44.1;Problem No.1-57-01. System 57 Pressurizer Relief Valve System
F01.050.025	1-57-H17 Hyd Snubber Class C	57 0-481A OFD-100A-1.2	QAL-14	VT-3	NA	6.000 0.000		Calcalaton No. OS-1313-06 Page 44.1;Problem No.1-57-01. System 57 Pressurizer Relief Valve System
F01.050.026	1-57-H18 Hyd Snubber Class C	57 0-481A OFD-100A-1.2	QAL-14	VT-3	NA	6.000 0.000		Calcalaton No. OS-1313-06 Page 44.1;Problem No.1-57-01. System 57 Pressurizer Relief Valve System
F01.050.027	1-57-H22 Hyd Snubber Class C	57 0-481A OFD-100A-1.2	QAL-14	VT-3	NA	6.000 0.000		Calcalaton No. OS-1313-06 Page 44.1;Problem No.1-57-01. System 57 Pressurizer Relief Valve System

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.028	1-57-H26 Hyd Snubber	57 0-481A OFD-100A-1.2	QAL-14	VT-3	NA		6.000 0.000	Calcuton No. OS-1313-06 Page 44.1; Problem No. 1-57-01. System 57 Pressurizer Relief Valve System
Class C								
F01.050.029	1-57-H9 Hyd Snubber	57 0-481A OFD-100A-1.2	QAL-14	VT-3	NA		6.000 1.000	Calcuton No. OS-1313-06 Page 44.1; Problem No. 1-57-01. System 57 Pressurizer Relief Valve System.
Class C								
F01.050.030	1-01A-H10B Hyd Snubber	01A 0-481B OFD-122A-1.1	QAL-14	VT-3	NA		24.250 0.437	Calcuton No. OSC-1296-06; Problem No. 1-01-08; System 01A; Page# 6 (1)-25.18; Main Steam From Pen 28 TO SG 1B
Class B PIPE FAB SKETCH 6" PIPE to								
F01.050.031	1-01A-H11A Hyd Snubber	01A 0-481B OFD-122A-1.1	QAL-14	VT-3	NA		24.250 0.437	Calcuton No. OSC-1296-06; Problem No. 1-01-07; System 01A; Page# 6 (2)-24.23A Main Steam From Pen 26 TO SG 1A
Class B PIPE FAB SKETCH 6" PIPE to								
F01.050.032	1-01A-H11B Hyd Snubber	01A 0-481B OFD-122A-1.1	QAL-14	VT-3	NA		24.250 0.437	Calcuton No. OSC-1296-06; Problem No. 1-01-08; System 01A; Page# 6 (1)-25.18; Main Steam From Pen 28 TO SG 1B
Class B PIPE FAB SKETCH 6" PIPE to								
F01.050.033	1-01A-H12A Hyd Snubber	01A 0-481B OFD-122A-1.1	QAL-14	VT-3	NA		24.250 0.375	Calcuton No. OSC-1296-06; Problem No. 1-01-07; System 01A; Page# 6 (2)-24.23A Main Steam From Pen 26 TO SG 1A
Class B								
F01.050.034	1-01A-DE005 Hyd Snubber	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.000	Calcuton No. OSC-320; Problem No. 1-01-01; Sht. 1 of 3; System 01A; Page# 131.1; Main Steam Piping.
Class B								
F01.050.035	1-01A-DE006 Hyd Snubber	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.000	Calcuton No. OSC-320; Problem No. 1-01-01; Sht. 1 of 3; System 01A; Page# 131.1; Main Steam Piping.
Class B								
F01.050.036	1-01A-R-2-1 Hyd Snubber	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.687	Calcuton No. OSC-320; Problem No. 1-01-01; Sht. 1 of 3; System 01A; Page# 131.1; Main Steam Piping
Class B								

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F01.050.037	1-01A-R-2-2 Hyd Snubber Class B	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.687	Calcalaton No. OSC-320; Problem No. 1-01-01;Sht. 1 of 3; System 01A;Page# 131.1; Main Steam Piping
F01.050.038	1-01A-R12 Hyd Snubber Class B	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.000	Calcalaton No. OSC-320; Problem No. 1-01-01;Sht.2 of 3; System 01A;Page# 132; Main Steam Piping
F01.050.039	1-01A-R9-1 Hyd Snubber Class B	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.687	Calcalaton No. OSC-320; Problem No. 1-01-01;Sht.1 of 3; System 01A; Page# 131.1; Main Steam Piping
F01.050.040	1-01A-R9-2 Hyd Snubber Class B	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.687	Calcalaton No. OSC-320; Problem No. 1-01-01; sht. 1 of 3; System 01A; Page# 131.1; Main Steam Piping
F01.050.041	1-01A-R9-3 Hyd Snubber Class B	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.687	Calcalaton No. OSC-320; Problem No. 1-01-01; Sht. 1 of 3; System 01A; Page# 131.1; Main Steam Piping
F01.050.042	1-01A-R9-4 Hyd Snubber Class B	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.687	Calcalaton No. OSC-320; Problem No. 1-01-01; Sht.1 of 3; System 01A; Page# 131.1; Main Steam Piping
F01.050.043	1-03-R12 Hyd Snubber Class C	03 0-551 OFD-121B-1.3	QAL-14	VT-3	NA		24.000 1.000	Calculation No. OS-336 Page 45a.1; Problem No. 1-03-01 Sheet 1 of 2. System 03 Auxiliary and Turbine Building.
F01.050.044	1-03-R7 Hyd Snubber Class C	03 0-551 OFD-121B-1.3	QAL-14	VT-3	NA		24.000 1.000	Calculation No. OS-336 Page 45a.1; Problem No. 1-03-01 Sheet 1 of 2. System 03 Auxiliary and Turbine Building.
F01.050.045	1-03A-SR56 Hyd Snubber Class C	03A 1-0-400B OFD-121D-1.1	QAL-14	VT-3	NA		6.000 0.000	Calcalaton No. OSC-342 Page 104; Problem No. 03A-9 . System 03A 6" Emergency Feedwater Bypass

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F01.050.046	1-03A-SR57	03A 1-0-400B	QAL-14	VT-3	NA		6.000	Calcalton No. OSC-342
	Hyd Snubber	OFD-121D-1.1					0.000	Page 104; Problem No. 03A-9 . System 03A 6" Emergency Feedwater Bypass
Class C								
F01.050.047	1-03A-SR58	03A 1-0-400B	QAL-14	VT-3	NA		6.000	Calcalton No. OSC-342
	Hyd Snubber	OFD-121D-1.1					0.000	Page 104; Problem No. 03A-9 . System 03A 6" Emergency Feedwater Bypass
Class C								
F01.050.048	1-03A-SR59	03A 1-0-400B	QAL-14	VT-3	NA		6.000	Calcalton No. OSC-342
	Hyd Snubber	OFD-121D-1.1					0.000	Page 104; Problem No. 03A-9 . System 03A 6" Emergency Feedwater Bypass
Class C								
F01.050.049	1-03A-SR50	03A 1-0-401A	QAL-14	VT-3	NA		6.000	Calculation Number OSC-339; Problem Number
	Hyd Snubber	OFD-121B-1.3					0.000	1-03A-5 Sheet 1 of 4; System 03A Emergency Feedwater.
Class C								
F01.050.050	1-03A-SR63	03A 1-0-438B	QAL-14	VT-3	NA		6.000	Calcalton No. OSC-342
	Hyd Snubber	OFD-121D-1.1					0.000	Page 102; Problem No. 03A-9 . System 03A 6" Emergency Feedwater Bypass
Class C								
F01.050.051	1-03A-SR64	03A 1-0-439B	QAL-14	VT-3	NA		6.000	Calcalton No. OSC-1224-19
	Hyd Snubber	OFD-121D-1.1					0.000	Page 27; Problem No.1- 03A-13. System 03A Aux. Service Water Pipe
Class C								
F01.050.053	1-01A-H44	01A 1-1-0-401A	QAL-14	VT-3	NA		12.000	Calcalton No. OSC-321;
	Hyd Snubber	OFD-122A-1.2					0.000	Problem No. 1-01-2 Sht. 3 of 5. System 01A; Main Steam Bypass To Condenser
Class B								
F01.050.055	1-01A-R2	01A 4-2-0-403C	QAL-14	VT-3	NA		6.000	Calculation Number OSC-325 Sheet 2 of 3; Problem
	Hyd Snubber	OFD-122A-1.4					0.000	1-01-06 Page 89.1. System 01A . Steam Supply to Emergency Feedwater Pump Turbine.
Class C								
F01.050.056	1-03A-DE058	03A 0-401A	QAL-14	VT-3	NA		6.000	Calcalton No. OSC-339
	Mech Snubber	OFD-121D-1.1					0.000	Page79; Problem No. 1-03A-5 . System 03A 6" Emergency Feedwater To 24" Main Feedwater.
Class C								

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.057	1-03-H4171 Mech Snubber Class C	03 0-401B OFD-121B-1.3	QAL-14	VT-3	NA		24.000 0.322	Calculation No. OS-336 Page 45a.1; Problem No. 1-03-01 Sheet 1 of 2. System 03 Auxiliary and Turbine Building.
F01.050.058	1-53B-DE056 Mech Snubber Class B	53B 0-435B OFD-102A-1.2	QAL-14	VT-3	NA		10.000 0.000	Calculation Number OS-406 Sheet 1 of 1; Problem No. 1-53-03 Page 71. System 53B Decay Heat Pump 1B and 1C to Decay Heat Cooler 1B .
F01.050.059	1-53B-DE059 Mech Snubber Class B	53B 0-435B OFD-102A-1.2	QAL-14	VT-3	NA		10.000 0.000	Calculation Number OS-408 Sheet 1 of 3; Problem No. 1-53-02 . System 53B LPI Injection and Decay Heat Removal
F01.050.060	1-53B-DE066 Mech Snubber Class B	53B 0-435B OFD-102A-1.1	QAL-14	VT-3	NA		14.000 0.000	Calculation No. OS-407; Problem No. 1-53-1;SHT.1 OF 4 Page #104; System 53B; LP Injection Line
F01.050.061	1-54A-DE-020 Mech Snubber Class B	54A 0-435B OFD-103A-1.1	QAL-14	VT-3	NA		8.000 0.000	Calculation No. OS-415 Page 50; Problem No. 1-54-2 Sheet 1 of 1. System 54A Auxiliary Building.
F01.050.062	1-54A-DE015 Mech Snubber Class B	54A 0-435B OFD-103A-1.1	QAL-14	VT-3	NA		8.000 0.000	Calculation No. OSC-1628 Page 60; Problem No. 1-54-01, Sheet 1 of 1. System 54A Auxiliary Building.
F01.050.063	1-51A-DE001A Mech Snubber Class B	51A 0-435C OFD-101A-1.3	QAL-14	VT-3	NA		4.000 0.000	Calculation No. OSC-1410 Page105; Problem No. 1-51-13 . System 51 HPI.
F01.050.064	1-53B-DE060 Mech Snubber Class B	53B 0-436D OFD-102A-1.2	QAL-14	VT-3	NA		10.000 0.000	Calculation Number OS-408 Sheet 1 of 3; Problem No. 1-53-02 . System 53B LPI Injection and Decay Heat Removal
F01.050.065	1-53B-DE055 Mech Snubber Class B	53B 0-438C OFD-102A-1.1	QAL-14	VT-3	NA		12.000 0.000	Calculation No. OS-404; Problem No. 1-53-04; Sht.1 of 1; Page #39; System 53B; Decay Heat RemovalL System & LP Injection.

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F01.050.066	1-53B-DE057	53B 0-438C	QAL-14	VT-3	NA	8.000		Calculaton No. OS-408; Problem No. 1-53-02; Sht.2 of 3; Page #73.3; System 53B; Decay Heat Removal System & LP Injection
	Mech Snubber	OFD-102A-1.1				0.000		
	Class B							
F01.050.067	1-51A-H102	51A 0-439A	QAL-14	VT-3	NA	4.000		Calculation No. OSC-1639, page 32.2; Problem No. 1-51-04. High Pressure Injection.
	Mech Snubber	OFD-101A-1.4				0.000		
	Class B	1-51-04						
F01.050.068	1-51A-H97	51A 0-439A	QAL-14	VT-3	NA	4.000		Calculation No. OSC-1639, page 32.2; Problem No. 1-51-04. High Pressure Injection.
	Mech Snubber	OFD-101A-1.4				0.000		
	Class B	1-51-04						
F01.050.069	1-54A-R16	54A 0-439A	QAL-14	VT-3	NA	8.000		Calculaton No. OS-416 Page 58.1; Problem No. 1-54-03, Sheet 1 of 1. System 54A Auxiliary Building.
	Mech Snubber	OFD-103A-1.1				1.000		
	Class B							
F01.050.070	1-51A-H80	51A 0-439C	QAL-14	VT-3	NA	4.000		Calculation No. OSC-1639, page 33; Problem No. 1-51-04. High Pressure Injection.
	Mech Snubber	OFD-101A-1.4				0.000		
	Class B	1-51-04						
F01.050.071	1-51A-H86	51A 0-439C	QAL-14	VT-3	NA	4.000		Calculation No. OSC-1639, page 32.2; Problem No. 1-51-04. High Pressure Injection.
	Mech Snubber	OFD-101A-1.4				0.000		
	Class B	1-51-04						
F01.050.072	1-53A-GPD-H0010	53A 0-479A	QAL-14	VT-3	NA	12.000		Calculaton No. OSC-1301-06; Problem No. 1-53-07; Page #92; System 53A; Decay Heat Removal System
	Mech Snubber	OFD-102A-1.1				0.000		
	Class B							
F01.050.073	1-03-H6068	03 0-479F	QAL-14	VT-3	NA	6.000		Calculaton No. OSC-1224-16 Page 42;Problem No.1- 03A-14. System 03A Aux. Service Water Pipe.
	Mech Snubber	OFD-121D-1.1				0.000		
	Class C							
F01.050.074	1-03-H6020	03 0-480A	QAL-14	VT-3	NA	6.000		Calculaton No. OSC-1224-16 Page 42;Problem No.1- 03A-14. System 03A Aux. Service Water Pipe
	Mech Snubber	OFD-121D-1.1				0.000		
	Class C							

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F01.050.075	1-03-H6070 Mech Snubber	03 0-480A OFD-121D-1.1	QAL-14	VT-3	NA		6.000 0.000	Calcalaton No. OSC-1224-16 Page 41;Problem No.1- 03A-14. System 03A Aux Service Water Pipe.
Class C								
F01.050.076	1-03-H6071 Mech Snubber	03 0-480A OFD-121D-1.1	QAL-14	VT-3	NA		6.000 0.000	Calcalaton No. OSC-1224-16 Page 42;Problem No.1- 03A-14. System 03A Aux. Service Water Pipe.
Class B								
F01.050.077	1-57-NW1Z Mech Snubber	57 0-480A OFD-107A-1.1	QAL-14	VT-3	NA		12.000 0.000	Calcalaton No. OSC-1313-06 Page 44.1; Problem No.1-57-01 Pressurizer Relief Valve System System 57
Class C								
F01.050.078	1-57-H23 Mech Snubber	57 0-481A OFD-100A-1.2	QAL-14	VT-3	NA		12.000 0.000	Calcalaton No. OS-1313-06 Page 44.1;Problem No.1-57-01. System 57 Pressurizer Relief Valve System
Class C								
F01.050.079	1-01A-R11 Mech Snubber	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.000	Calcalaton No. OSC-320; Problem No. 1-01-01; Sht.2 of 3; System 01A;Page # 132; Main Steam Piping
Class B								
F01.050.080	1-01A-R4 Mech Snubber	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.000	Calcalaton No. OSC-320; Problem No. 1-01-01; Sht.2 of 3; System 01A; Page # 132; Main Steam Piping
Class B								
F01.050.081	1-01A-R5 Mech Snubber	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 0.000	Calcalaton No. OSC-320; Problem No. 1-01-01; Sht.2 of 3; System 01A; Page# 132; Main Steam Piping
Class B								
F01.050.082	1-01A-R6 Mech Snubber	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 1.000	Calcalaton No. OSC-320; Problem No. 1-01-01; Sht. 2 of 3; System 01A; Page # 132; Main Steam Piping.
Class B								
F01.050.083	1-01A-R7 Hyd Snubber	01A 0-550 OFD-122A-1.1	QAL-14	VT-3	NA		34.000 1.000	Calcalaton No. OSC-320; Problem No. 1-01-01; Sht.1 of 3; System 01A; Page # 131.1; Main Steam Piping.
Class B								

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.084	1-03-R13 Mech Snubber Class C	03 0-551 OFD-121B-1.3	QAL-14	VT-3	NA	24.000 0.000		Calculation No. OS-336 Page 45a.1; Problem No. 1-03-01 Sheet 1 of 2. System 03 Auxiliary and Turbine Building.
F01.050.085	1-03A-H115 Mech Snubber Class C	03A 1-0-400B OFD-121D-1.1	QAL-14	VT-3	NA	6.000 0.000		Calculation No. OSC-1214 Page 25; Problem No.1- 03A-11. System 03A 6" Emergency Feedwater
F01.050.086	1-03A-H123 Mech Snubber Class C	03A 1-0-400B OFD-121D-1.1	QAL-14	VT-3	NA	6.000 0.000		Calculation No. OSC-1214 Page 25; Problem No.1- 03A-11. System 03A 6" Emergency Feedwater
F01.050.087	1-03A-SR62 Hyd Snubber Class C	03A 1-0-437A OFD-121D-1.1	QAL-14	VT-3	NA	6.000 0.000		Calculation No. OSC-339 Page 81; Problem No. 1-03A-5 . System 03A 6" Emergency Feedwater to 24" Main Feedwater.
F01.050.088	1-01A-H43 Mech Snubber Class B	01A 1-1-0-401A OFD-122A-1.2	QAL-14	VT-3	NA	12.000 0.000		Calculation No. OSC-321; Problem No. 1-01-2 Sht. 3 of 5. System 01A; Main Steam Bypass To Condenser.
F01.050.089	1-01A-R11 Mech Snubber Class C	01A 4-2-0-400A OFD-122A-1.4	QAL-14	VT-3	NA	6.000 0.250		Calculation Number OSC-325 Sheet 3 of 3; Problem 1-01-06 Page 91. System 01A Steam Supply to Emergency Feedwater Pump Turbine.
F01.050.090	1-07A-H39 Mech Snubber Class C	07A 6-0-400A OFD-121A-1.8	QAL-14	VT-3	NA	20.000 0.000		Calculation No. OSC-361 Page 85.1 Problem No.1-07A-01 L.P.& H.P.Condensate System 07A
F01.050.091	1-07A-H40 Mech Snubber Class C	07A 6-0-400A OFD-121A-1.8	QAL-14	VT-3	NA	20.000 0.000		Calculation No. OSC-361 Page 85.1 Problem No.1-07A-01 L.P.& H.P.Condensate System 07A
F01.050.092	1-07A-H41 Mech Snubber Class C	07A 6-0-400A OFD-121A-1.8	QAL-14	VT-3	NA	24.000 0.000		Calculation No. OSC-361 Page 85.1 Problem No.1-07A-01 L.P.& H.P.Condensate System 07A

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DI/THK	CAL BLOCKS	COMMENTS
F01.050.093	1-50-RCPM-S1	50 0-66A	QAL-14	VT-3	NA		5.000	Calculaton No. OSC-0971-01-0001, Reactor Coolant Pump 1A1 Motor Snubbers. Reference PIP 0-O96-1575. Inspect with F01.012.015.
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						
F01.050.094	1-50-RCPM-S2	50 0-66A	QAL-14	VT-3	NA		5.000	Calculaton No. OSC-0971-01-0002, Reactor Coolant Pump 1A1 Motor Snubbers. Reference PIP 0-O96-1575
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						
F01.050.095	1-50-RCPM-S3	50 0-66A	QAL-14	VT-3	NA		5.000	Calculaton No. OSC-0971-01-0003, Reactor Coolant Pump 1A1 Motor Snubbers. Reference PIP 0-O96-1575
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						
F01.050.096	1-50-RCPM-S4	50 0-66A	QAL-14	VT-3	NA		5.000	Calculaton No. OSC-0971-01-0004, Reactor Coolant Pump 1A2 Motor Snubbers. Reference PIP 0-O96-1575
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						
F01.050.097	1-50-RCPM-S5	50 0-66A	QAL-14	VT-3	NA		5.000	Calculaton No. OSC-0971-01-0005, Reactor Coolant Pump 1A2 Motor Snubbers. Reference PIP 0-O96-1575
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						
F01.050.098	1-50-RCPM-S6	50 0-66A	QAL-14	VT-3	NA		5.000	Calculaton No. OSC-0971-01-0006, Reactor Coolant Pump 1A2 Motor Snubbers. Reference PIP 0-O96-1575. Inspect with F01.012.016.
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						
F01.050.099	1-50-RCPM-S7	50 0-66A	QAL-14	VT-3	NA		5.000	Calculaton No. OSC-0971-01-0007, Reactor Coolant Pump 1B1 Motor Snubbers. Reference PIP 0-O96-1575
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						
F01.050.100	1-50-RCPM-S8	50 0-66A	QAL-14	VT-3	NA		5.000	Calculaton No. OSC-0971-01-0008, Reactor Coolant Pump 1B1 Motor Snubbers. Reference PIP 0-O96-1575
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						
F01.050.101	1-50-RCPM-S9	50 0-66A	QAL-14	VT-3	NA		5.000	Calculaton No. OSC-0971-01-0009, Reactor Coolant Pump 1B1 Motor Snubbers. Reference PIP 0-O96-1575. Inspect with F01.012.017.
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
F01.050.102	1-50-RCPM-S10	50 0-66A	QAL-14	VT-3	NA		5.000	Calcalaton No. OSC-0971-01-0010, Reactor Coolant Pump 1B2 Motor Snubbers. Reference PIP 0-O96-1575
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						
F01.050.103	1-50-RCPM-S11	50 0-66A	QAL-14	VT-3	NA		5.000	Calcalaton No. OSC-0971-01-0011, Reactor Coolant Pump 1B2 Motor Snubbers. Reference PIP 0-O96-1575
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						
F01.050.104	1-50-RCPM-S12	50 0-66A	QAL-14	VT-3	NA		5.000	Calcalaton No. OSC-0971-01-0012, Reactor Coolant Pump 1B2 Motor Snubbers. Reference PIP 0-O96-1575. Inspect with F01.012.018.
	Hyd Snubber	OFD-100A-1.1					0.000	
Class A		OFD-100A-1.3						

**Total F01.050 Items: 101**

**Total F01 Items: 141**

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**Reactor Coolant Pump Flywheel**

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G01.001.001	1-RCP-1A1 Circumferential Class A	50 OM-201D-38	NDE-900	UT	CS	72.000 9.500	RCP 1A1 Flywheel to	The entire volume of the flywheel shall be examined by UT at approximately 3 year intervals. Ref. Section 7 of the ISI Plan Volume 1.
G01.001.002	1-RCP-1A2 Circumferential Class A	50 OM-201D-38	NDE-900	UT	CS	72.000 9.500	RCP 1A2 Flywheel to	The entire volume of the flywheel shall be examined by UT at approximately 3 year intervals. Ref. Section 7 of the ISI Plan Volume 1.
G01.001.003	1-RCP-1B1 Circumferential Class A	50 OM-201D-38	NDE-900	UT	CS	72.000 9.500	RCP 1B1 Flywheel to	The entire volume of the flywheel shall be examined by UT at approximately 3 year intervals. Ref. Section 7 of the ISI Plan Volume 1.
G01.001.004	1-RCP-1B2 Circumferential Class A	50 OM-201D-38	NDE-900	UT	CS	72.000 9.500	RCP 1B2 Flywheel to	The entire volume of the flywheel shall be examined by UT at approximately 3 year intervals. Ref. Section 7 of the ISI Plan Volume 1.
<b>Total G01.001 Items:</b>		<b>4</b>						
<b>Total G01 Items:</b>		<b>4</b>						

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G02.001.005A	1-PDA1-46	51A ISI OCN1-011 OM-201-597	NDE-690	UT	CS	3.500 2.500	40410 40350	Reference Section 7 of the ISI Plan, Volume 1. 1A1 Make-Up Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A								
G02.001.005B	1-PDA2-46	51A ISI OCN1-012 OM-201-597	NDE-690	UT	CS	3.500 2.500	40410 40350	Reference Section 7 of the ISI Plan, Volume 1. 1A2 Make-Up Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A								
G02.001.005C	1-PDB1-46	51A ISI OCN1-013 OM-201-597	NDE-690	UT	CS	3.500 2.500	40410 40350	Reference Section 7 of the ISI Plan, Volume 1. 1B1 HPI Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A								
G02.001.005D	1-PDB2-46	51A ISI OCN1-014 OM-201-597	NDE-690	UT	CS	3.500 2.500	40410 40350	Reference Section 7 of the ISI Plan, Volume 1. 1B2 HPI Nozzle PC 46. Perform UT on the nozzle inside radius (knuckle area). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A								
G02.001.006A	1-PDA1-11 Circumferential	51A ISI OCN1-011 OM-201-597	NDE-610	UT	SS-Inconel	3.500 0.750	Component 40416	Reference Section 7 of the ISI Plan, Volume 1. 1A1 Make-Up Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A								
Make-Up Nozzle, PC 46 to Safe End								

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G02.001.006B Class A	1-PDA2-11 Circumferential	51A ISI OCN1-012 OM-201-597	NDE-610	UT	SS-Inconel	3.500 0.750	Component 40416	Reference Section 7 of the ISI Plan, Volume 1. 1A2 Make-Up Nozzle PC 46 to Safe End PC 47 . Perform UT on the nozzle to safe end weld. Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
								Make-Up Nozzle, PC 46 to Safe End , PC 47
G02.001.006C Class A	1-PDB1-11 Circumferential	51A ISI OCN1-013 OM-201-597	NDE-610	UT	SS-Inconel	3.500 0.750	Component 40416	Reference Section 7 of the ISI Plan, Volume 1. 1B1 HPI Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
								HPI Nozzle, PC 46 to Safe End Pc 47
G02.001.006D Class A	1-PDB2-11 Circumferential	51A ISI OCN1-014 OM-201-597	NDE-610	UT	SS-Inconel	3.500 0.750	Component 40416	Reference Section 7 of the ISI Plan, Volume 1. 1B2 HPI Nozzle PC 46 to Safe End PC 47. Perform UT on the nozzle to safe end weld. Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
								HPI Nozzle, PC 46 to Safe End PC 47
G02.001.007A Class A	1-PDA1-47	51A ISI OCN1-011 OM-201-597	NDE-960	UT	SS	3.500 0.750	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining Make-Up nozzle 1A1. Perform UT on the Safe End base metal (between the nozzle to safe end weld and the safe end to pipe weld). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
G02.001.007B Class A	1-PDA2-47	51A ISI OCN1-012 OM-201-597	NDE-960	UT	SS	3.500 0.750	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining Make-Up nozzle 1A2. Perform UT on the Safe End base metal (between the nozzle to safe end weld and the safe end to pipe weld). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G02.001.007C	1-PDB1-47	51A ISI OCN1-013 OM-201-597	NDE-960	UT	SS	3.500 0.750	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining HPI nozzle 1B1. Perform UT on the Safe End base metal (between the nozzle to safe end weld and the safe end to pipe weld). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A								
G02.001.007D	1-PDB2-47	51A ISI OCN1-014 OM-201-597	NDE-960	UT	SS	3.500 0.750	Component	Reference Section 7 of the ISI Plan, Volume 1. Safe End PC 47 adjoining HPI nozzle 1B2. Perform UT on the Safe End base metal (between the nozzle to safe end weld and the safe end to pipe weld). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
Class A								
G02.001.008A	1RC-199-154 Circumferential	51A 1RC-199 OFD-100A-1.1	NDE-960	UT	SS	2.500 0.375	Component	Reference Section 7 of the ISI Plan, Volume 1. Make-Up nozzle 1A1. Perform UT on weld 1RC-199-154 and adjoining base metal out to weld 1RC-199-149 (at valve 1HP-127). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Revision 2 to iso changed weld number to 1-RC-199-154. Inspect this weld at the same time item number G04.001.029 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A								
G02.001.008B	1RC-200-161 Circumferential	51A 1RC-200 OFD 100A-1.1	NDE-960	UT	SS	2.500 0.375	Component	Reference Section 7 of the ISI Plan, Volume 1. Make-Up nozzle 1A2. Perform UT on weld 1RC-200-161 and adjoining base metal out to weld 1RC-200-160 (at valve 1HP-126). There is a circumferential weld located between weld 1RC-200-7 and 1RC-200-8. This weld (1RC200-9) will be documented as Item Number G02.001.009A. Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be
Class A								

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**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL	BLOCKS	COMMENTS
G02.001.008C	1RC-201-101	51A 1RC-201 OFD-100A-1.1	NDE-960	UT	SS	2.500	Component	0.375	<p>changed. Check with Engineering prior to scheduling the fourth interval. Revision 2 changed weld number from 1RC-200-7.</p> <p>Inspect at the same time item number G04.001.031 is inspected.</p> <p>Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.</p>
Class A				Safe End PC 47 to Pipe					Reference Section 7 of the ISI Plan, Volume 1. HPI nozzle 1B1. Perform UT on weld 1RC-201-101 and adjoining base metal out to weld 1RC-201-97 (at valve 1HP-153). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Revision 2 to isometric changed weld number from 1RC-201-3. Weld 1-51A-11-89 was deleted and weld 1RC-201-101 replaced it. Inspect this weld at the same time item number G04.001.003 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G02.001.008D	1RC-201-102	51A 1RC-201 OFD-100-1.1	NDE-960	UT	SS	2.500	Component	0.375	<p>Reference Section 7 of the ISI Plan, Volume 1. HPI nozzle 1B2. Perform UT on weld 1RC-201-102 and adjoining base metal out to weld 1RC-201-92 (at valve 1HP-152). Perform UT examination during outages 19 &amp; 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Revision 2 to isometric changed weld number from 1RC-201-2. Weld 1-51A-11-87 was deleted and weld 1RC-201-102 replaced it. Inspect this weld at the same time item G04.001.001 is inspected.</p> <p>Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.</p>
Class A	Circumferential			Safe End PC 47 to Pipe					

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G02.001.010A Class A	1RC-199-149 Circumferential	51A 1RC-199 OFD-100A-1.1	NDE-960	UT	SS	2.500 0.375	Component	Reference Section 7 of the ISI Plan, Volume 1. Make-Up nozzle 1A1. Perform UT on weld 1RC-199-10 (at valve 1HP-127). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Revision 2 to iso changed weld number to 1-RC-199-149. Inspect this weld at the same time item number G04.001.028 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G02.001.010B Class A	1RC-200-160 Circumferential	51A 1RC-200 OFD 100A-1.1	NDE-960	UT	SS	2.500 0.375	Component	Reference Section 7 of the ISI Plan, Volume 1. Make-Up nozzle 1A2. Perform UT on weld 1RC-200-8 (at valve 1HP-126). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Revision 2 changed weld number from 1RC-200-8. Inspect tis weld at the same time item number G04.001.030 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G02.001.010C Class A	1RC-201-97 Circumferential	51A 1RC-201 OFD-100A-1.1	NDE-960	UT	SS	2.500 0.375	Component	Reference Section 7 of the ISI Plan, Volume 1. HPI nozzle 1B1. Perform UT on weld 1RC-201-4 (at valve 1HP-153). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Revision 2 to isometric changed weld number from 1RC-201-4. Weld 1-51A-11-90 was deleted and weld 1RC-201-97 replaced it. Inspect this weld at the same time item number G04.001.004 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIATHK	CAL BLOCKS	COMMENTS
G02.001.010D Class A	1RC-201-92 Circumferential	51A 1RC-201 OFD-100A-1.1	NDE-960	UT	SS	2.500 0.375	Component	Reference Section 7 of the ISI Plan, Volume 1. HPI nozzle 1B2. Perform UT on weld 1RC-201-1 (at valve 1HP-152). Perform UT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval. Revision 2 to isometric changed weld number from 1RC-201-1. Weld 1-51A-11-88 was deleted and weld 1RC-201-92 replaced it. Inspect this weld at the same time item number G04.001.002 is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
G02.001.011A Class A	1A1-THERM SLEEVE Circumferential	51A ISI OCN1-011 OFD-100A-1.1	NDE-105	RT	SS	3.500 0.750		Reference Section 7 of the ISI Plan, Volume 1. Make-Up nozzle 1A1. 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. Perform RT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
G02.001.011B Class A	1A2-THERM SLEEVE Circumferential	51A ISI OCN1-012 OFD-100A-1.1	NDE-105	RT	SS	3.500 0.750		Reference Section 7 of the ISI Plan, Volume 1. Make-Up nozzle 1A2. 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. Perform RT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
G02.001.011C Class A	1B1-THERM SLEEVE Circumferential	51A ISI OCN1-013 OFD-100A-1.1	NDE-105	RT	SS	3.500 0.750		Reference Section 7 of the ISI Plan, Volume 1. HPI nozzle 1B1. 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. Perform RT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G02.001.011D	1B2-THERM SLEEVE	51A ISI OCN1-014	NDE-105	RT	SS	3.500		Reference Section 7 of the ISI Plan, Volume 1. HPI nozzle 1B2. 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. Perform RT examination during outages 19 & 21 for the third interval. This schedule cannot be changed. Check with Engineering prior to scheduling the fourth interval.
	Circumferential	OFD-100A-1.1				0.750		
Class A								

**Total G02.001 Items: 24**  
**Total G02 Items: 24**

**CATEGORY AUG, Augmented Inspections**

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 Inservice Inspection Database Management System**

**Pressurizer Surge Line**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G03.001.001	1-PSL-11	50 ISI OCN1-015	NDE-35	PT	SS		1.000	Reference Section 7 of the ISI Plan, Volume 1.
	Circumferential				160		0.250	
Class A	Stress weld			Nozzle Drain to Pipe				
<b>Total G03.001 Items:</b>		<b>1</b>						
<b>Total G03 Items:</b>		<b>1</b>						

**CATEGORY AUG, Augmented Inspections**

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**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G04.001.001	1RC-201-102	51A 1RC-201 OFD-100A-1.1	NDE-600	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. Weld 1-51A-11-87 (iso 1-51A-11(3)) was deleted and weld 1RC-201-102 replaced it. Inspect this weld at the same time G02.001.008D is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
	Circumferential			Pipe to Safe-End				
G04.001.002	1RC-201-92	51A 1RC-201 OFD-101A-1.4	NDE-600	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. Weld 1-51A-11-88 was deleted and weld 1RC-201-92 replaced it. Inspect this weld at the same time item number G02.001.010D is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
	Circumferential			Pipe to Valve 1HP-152				
G04.001.003	1RC-201-101	51A 1RC-201 OFD-101A-1.4	NDE-600	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. This weld was listed previously as 1-51A-11-89 until iso 1-51A-11 was redrawn. Revision 2 to isometric changed weld number from 1RC-201-3. Weld 1-51A-11-89 was deleted and weld 1RC-201-101 replaced it. Inspect this weld at the same time item number G02.001.008C is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
	Circumferential			Pipe to Safe-End				
G04.001.004	1RC-201-97	51A 1RC-201 OFD-101A-1.4	NDE-600	UT	SS	2.500 0.375		Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. This weld was listed previously as 1-51A-11-90 until iso 1-51A-11 was redrawn. Revision 2 to isometric changed weld number from 1RC-201-4. Weld
	Circumferential			Pipe to Valve 1HP-153				
	Class A							

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**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G04.001.013	1RC-201-91	51A 1RC-201	NDE-600	UT	SS		2.500	1-51A-11-90 was deleted and weld 1RC-201-97 replaced it. Inspect this weld at the same time item number G02.001.010C is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
	Circumferential	OFD-101A-1.4	NDE-12				0.375	
Class A						Valve 1HP-489 to Valve 1HP-152		
G04.001.014	1RC-201-96	51A 1RC-201	NDE-600	UT	SS		2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. Use procedure NDE-12 if needed to obtain necessary examination coverage due to configuration (vlv to vlv).
	Circumferential	OFD-101A-1.4	NDE-12				0.375	
Class A						Valve 1HP-488 to Valve 1HP-153		
G04.001.020	1RC-200-166	51A 1RC-200	NDE-600	UT	SS		2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. Use procedure NDE-12 if needed to obtain necessary examination coverage due to configuration (vlv to vlv).
	Circumferential		NDE-12		160		0.375	
Class A						Valve 1HP-486 to Valve 1HP-126		
G04.001.024	1RC-199-150	51A 1RC-199	NDE-600	UT	SS		2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. Use procedure NDE-12 if needed to obtain necessary examination coverage due to configuration (vlv to vlv).
	Circumferential		NDE-12		160		0.375	
Class A						Valve 1HP-127 to Valve 1HP-487		
G04.001.028	1RC-199-149	51A 1RC-199	NDE-600	UT	SS		2.500	Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. Revision 2 to iso changed weld number to 1-RC-199-149. Inspect this weld at the same time item number G02.001.010A is inspected. Note: The inspection performed for the G02 item
	Circumferential	OFD-100A-1.1					0.375	
Class A						Pipe to Vlv 1HP-127	Component	

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ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G04.001.029	1RC-199-154	51A 1RC-199 OFD-100A-1.1	NDE-600	UT	SS	2.500	Component 0.375	number will be sufficient to meet the requirements for the G04 inspection.  Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. Revision 2 to iso changed weld number to 1-RC-199-154. Inspect this weld at the same time item number G02.001.008A is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	Circumferential							Safe End, PC 47 to Pipe
G04.001.030	1RC-200-160	51A 1RC-200 OFD 100A-1.1	NDE-600	UT	SS	2.500	Component 0.375	Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. Revision 2 changed weld number from 1RC-200-8. Inspect this weld at the same time item number G02.001.010B is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	Circumferential							Pipe to Vlv. 1HP-126
G04.001.031	1RC-200-161	51A 1RC-200 OFD 100A-1.1	NDE-600	UT	SS	2.500	Component 0.375	Inspect 100% of weld & 1" of base material (axial & circumferential). Reference Section 7 of the ISI Plan, Volume 1. Revision 2 changed weld number from 1RC-200-7. Inspect at the same time item number G02.001.008B is inspected. Note: The inspection performed for the G02 item number will be sufficient to meet the requirements for the G04 inspection.
Class A	Circumferential							Safe End PC 47 to Pipe
<b>Total G04.001 Items:</b>	<b>12</b>							
<b>Total G04 Items:</b>	<b>12</b>							

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**Circumferential Pipe Welds With A Nom. Wall**  
**Thk. < 3/8" and > NPS 4"**

Oconee 1

**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G09.001.004	1-51A-01-64A	51A 1-51A-01(2) OFD-101A-1.3	NDE-35	PT	SS	6.000 0.280		
Class B	Circumferential						Valve 1HP-111 to Pipe	
G09.001.010	1-53B-03-33E	53B 1-53B-03(1) OFD-102A-1.2	NDE-35	PT	SS	8.000 0.250		
Class B	Circumferential						Elbow to Pipe	
G09.001.016	1-53B-05-54JB	53B 1-53B-05(3) OFD-102A-1.2	NDE-35	PT	SS	10.000 0.250		
Class B	Circumferential						Elbow to Reducer	
G09.001.022	1-53B-07-24	53B 1-53B-07(1) OFD-102A-1.2	NDE-35	PT	SS	6.000 0.134		
Class B	Circumferential						Pipe to Elbow	
G09.001.028	1LP-94-2	53B 1LP-94 OFD-102A-1.2	NDE-35	PT	SS	10.000 0.250		
Class B	Circumferential						Pipe to Elbow	
G09.001.034	1-54A-03-05C	54A 1-54A-03(1) OFD-103A-1.1	NDE-35	PT	SS	8.000 0.250		
Class B	Circumferential						Valve 1BS-12 to Elbow	
G09.001.040	1-54A-04-88C	54A 1-54A-04(2) OFD-103A-1.1	NDE-35	PT	SS	8.000 0.250		
Class B	Circumferential						Tee to Pipe	
G09.001.046	1SF-107-30A	56 1SF-107 OFD-104A-1.1	NDE-35	PT	SS	8.000 0.148		This weld was listed previously as 1-56-2-30A until isometric 1-56-2 was redrawn.
Class B	Circumferential						Pipe to Elbow	

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**Circumferential Pipe Welds With A Nom. Wall  
 Thk. < 3/8" and > NPS 4"**

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**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G09.001.047	1LPS-411-1	14B 1LPS-411	NDE-35	PT	SS	6.000		
	Circumferential	OFD-124B-1.2				0.280		Pipe to Flange
	Class B							
G09.001.048	1LPS-414-5	14B 1LPS-414	NDE-35	PT	SS	6.000		
	Circumferential	OFD-124B-1.2				0.280		Pipe to Tee
	Class B							
G09.001.049	1LPS-417-5	14B 1LPS-417	NDE-35	PT	SS	6.000		
	Circumferential	OFD-124B-1.2				0.280		Pipe to Elbow
	Class B							

**Total G09.001 Items: 11**

**Total G09 Items: 11**



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**HPI System Upgrade**

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**Inservice Inspection Plan for Interval 3 Outage 4**

ITEM NUMBER	ID NUMBER	SYS ISO/DWG NUMBERS	PROC	INSP REQ	MAT/SCH	DIA/THK	CAL BLOCKS	COMMENTS
G12.001.003	1-51B-1-11A	51B 1-51B-1	NDE-35	PT	SS		2.500	
	Circumferential	OFD-101A-1.2					0.120	
	Class B							Tee to Elbow
G12.001.006	1-51B-1-81A	51B 1-51B-1	NDE-35	PT	SS		2.500	
	Circumferential	OFD-101A-1.2					0.120	
	Class B							Tee to Pipe
G12.001.011	1-51B-2-91AH	51B 1-51B-2	NDE-35	PT	SS		2.500	
	Circumferential	OFD-101A-1.2					0.120	
	Class B							Valve 1HP-196 to Elbow
G12.001.017	1-51B-5-6BJ	51B 1-51B-5	NDE-35	PT	SS		2.500	
	Circumferential	OFD-101A-1.2					0.120	
	Class B							Pipe to Elbow

**Total G12.001 Items: 4**

**Total G12 Items: 4**

## 5.0 Results Of Inspections Performed

The results of each examination shown in the final ISI Plan (Section 4 of this report) are included in this section. The completion date and status for each examination are shown. Limited examinations are described in further detail in Section 5.2. All examinations revealing reportable indications are described in further detail in Section 6.

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

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

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Plant: Oconee 1

ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
B02.040.002	1-SGB-WG58-2	50	12/17/2000	CLR	92.20%	N	N	
B03.110.005	1-PZR-WP33-1	50	12/19/2000	CLR	37.10%	N	Y	Request for Relief # 01-01.
B03.110.009	1-PZR-WP26-1	50	12/06/2000	CLR	26.41%	N	Y	Request for Relief # 01-01.
B03.110.010	1-PZR-WP26-2	50	12/06/2000	REC	26.41%	N	Y	Request for Relief # 01-01. Indication # 1 is a subsurface scan. The maximum depth of 2.479" less the minimum depth of 2.326" equals a through wall dimension of 0.153". This calculates to an A/L aspect ratio of .17. After Linear interpolation was calculated there was an acceptable A/T percentage of 3.1%. The flaw actual A/L percentage was 1.3%. This is an acceptable indication in accordance with the acceptance standards of ASME, Section XI, IWA-3000, Table IWB-3512-1.
B03.120.005	1-PZR-WP33-1	50	12/19/2000	CLR	91.67%	N	N	
B03.120.009	1-PZR-WP26-1	50	12/06/2000	CLR	61.82%	N	Y	Request for Relief # 01-01.
B03.120.010	1-PZR-WP26-2	50	12/06/2000	CLR	61.82%	N	Y	Request for Relief # 01-01.
B03.130.003	1-SGB-WG50-2	50	12/04/2000	CLR	54.77%	N	Y	Request for Relief # 99-01.
B03.130.004	1-SGB-WG50-1	50	12/04/2000	CLR	54.77%	N	Y	Request for Relief # 99-01.
B03.140.003	1-SGB-WG50-2	50	12/04/2000	CLR	46.15%	N	Y	Request for Relief # 99-01.
B03.140.004	1-SGB-WG50-1	50	12/04/2000	CLR	46.15%	N	Y	Request for Relief # 99-01.
B05.050.001	1-PZR-WP91-1	50	12/05/2000	CLR	---	N	N	
B05.130.003	1-PIA2-7	50	12/05/2000	CLR	---	N	N	
B05.130.003A	1-PIA2-7	50	12/05/2000	CLR	---	N	N	
B05.130.003B	1-PIA2-7	50	11/30/2000	CLR	---	N	N	
B05.130.004	1-PDA2-2	50	12/06/2000	REC	---	Y	N	Indication # 1 is a 360° intermittent reflector due to id counterbore. Counterbore verified using previous 0° data. An additional scan using a 60° L wave revealed no evidence of an indication.
B05.130.004A	1-PDA2-2	50	12/06/2000	REC	---	Y	N	Indication # 1 is a 360° intermittent reflector due to id counterbore. Counterbore verified using previous 0° data. An additional scan using a 60° L wave revealed no evidence of an indication.
B05.130.004B	1-PDA2-2	50	12/05/2000	CLR	---	N	N	
B05.140.002	1-PIA2-11	50	12/06/2000	CLR	---	N	N	
B06.060.001	1-PZR-STUDS		12/04/2000	CLR	---	N	N	12 studs examined.
B06.190.004	1-RCP-1B2-FLANGE		12/05/2000	CLR	---	N	N	
B07.020.002	1-PZR-CHB-STUDS		12/02/2000	CLR	---	N	N	Inspected in place.
B07.070.007	1-53A-LP1-BOLTS	53A	12/02/2000	CLR	---	N	N	
B07.070.013	1-53A-LP103-BOLTS	53A	12/09/2000	CLR	---	N	N	

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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
B07.080.001	1-RPV-CRD-BOLTS		12/05/2000	CLR	---	N	N	The housing bolts for the following Control Rod Drives were inspected : 68, 56 , 49, 55, 67, 61, 44, 36, 29, 3, 7, 17, 33, 53, 62, 22, 15, 11, 16, 23, 41, 65, 58, 39, 31, 27, 32, 40, 63, 51, 47, 52, 64. Part of the bolts were inspected by W.C. Land on 12-5-00 and part of the bolts were inspected by Michael Moore on 12-18-00.
B07.080.002	1-RPV-CRD-RINGS		12/05/2000	CLR	---	N	N	The housing rings for the following Control Rod Drives were inspected : 68, 56 , 49, 55, 67, 61, 44, 36, 29, 3, 7, 17, 33, 53, 62, 22, 15, 11, 16, 23, 41, 65, 58, 39, 31, 27, 32, 40, 63, 51, 47, 52, 64. Part of the housing rings were inspected by W.C. Land on 12-5-00 and part of the housing rings were inspected by Michael Moore on 12-18-00.
B09.011.017	1-PIA2-9	50	12/05/2000	CLR	59.15%	N	Y	Request for Relief # 01-01.
B09.011.017A	1-PIA2-9	50	11/30/2000	CLR	---	N	N	
B09.011.093	1-53A-02-63L	53A	12/07/2000	REC	---	Y	N	Indication # 1 is a 360° intermittant indication due to id root geometry. Condition confirmed with 0° contours, profiles and RT film review. A 70° scan and 60° L wave was also used for confirmation.
B09.011.093A	1-53A-02-63L	53A	12/07/2000	CLR	---	N	N	
B09.011.098	1-53A-01-8L	53A	12/12/2000	CLR	---	N	N	
B09.011.098A	1-53A-01-8L	53A	12/07/2000	CLR	---	N	N	
B09.011.099	1-53A-01-6L	53A	12/12/2000	CLR	---	N	N	
B09.011.099A	1-53A-01-6L	53A	12/07/2000	CLR	---	N	N	
B09.011.102	1-53A-01-28L	53A	12/08/2000	REC	---	Y	N	Indication # 1 was scanned with a 70° shear wave and WSY-70. The indication is determined to be root geometry.
B09.011.102A	1-53A-01-28L	53A	12/08/2000	CLR	---	N	N	
B09.011.103	1-53A-01-21L	53A	12/08/2000	REC	---	Y	N	Indication # 1 was scanned with a 70° shear wave and WSY-70. The indication is determined to be root geometry.
B09.011.103A	1-53A-01-21L	53A	12/08/2000	CLR	---	N	N	
B09.011.113	1HP-285-52C	51A	12/07/2000	CLR	---	N	N	
B09.011.113A	1HP-285-52C	51A	12/07/2000	CLR	---	N	N	
B09.011.120	1-51A-04-3C	51A	12/14/2000	CLR	---	N	N	
B09.011.120A	1-51A-04-3C	51A	12/11/2000	CLR	---	N	N	
B09.021.008	1RC-201-102	51A	12/04/2000	CLR	---	N	N	
B09.021.009	1RC-201-92	51A	12/01/2000	CLR	---	N	N	
B09.021.009A	1RC-201-101	51A	12/01/2000	CLR	---	N	N	
B09.021.029	1-51A-7-109	51A	12/09/2000	CLR	---	N	N	

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ITEM NUMBER	ID NUMBER	SYSTEM	INSP DATE	INSP STATUS	INSP LIMITED	GEO REF	RFR	COMMENTS
B09.021.053	1HP-190-1	51A	12/12/2000	CLR	---	N	N	
B09.021.054	1-51A-05-65C	51A	12/12/2000	CLR	---	N	N	
B09.021.055	1-51A-05-62C	51A	12/12/2000	CLR	---	N	N	
B09.021.056	1-51A-05-59C	51A	12/12/2000	CLR	---	N	N	
B09.021.057	1-51A-05-56C	51A	12/12/2000	CLR	---	N	N	
B09.021.063	1-51A-136-3	51A	12/11/2000	CLR	---	N	N	
B09.021.067	1-51A-134A-43	51A	12/09/2000	CLR	---	N	N	
B09.021.068	1-51A-136-36	51A	12/09/2000	CLR	---	N	N	
B09.021.069	1-PSP-24	50	12/05/2000	CLR	---	N	N	
B09.021.070	1-PSP-25	50	12/05/2000	CLR	---	N	N	
B09.021.071	1-PSP-8	50	12/05/2000	CLR	---	N	N	
B09.021.072	1RC-199-154	51A	12/01/2000	CLR	---	N	N	
B09.021.073	1-PSP-6	50	12/05/2000	CLR	---	N	N	
B09.021.076	1LP-102-10	53A	12/10/2000	CLR	---	N	N	
B09.032.001	1-PIA1-10	50	12/01/2000	CLR	---	N	N	
B09.032.006	1-PDA2-10	50	12/01/2000	CLR	---	N	N	
B09.032.007	1-PDB1-10	50	12/01/2000	CLR	---	N	N	
B09.040.012	1-51A-135-25	51A	12/09/2000	CLR	---	N	N	
B09.040.014	1-50-01-179	50	11/30/2000	CLR	---	N	N	
B09.040.015	1-50-01-183	50	11/30/2000	CLR	---	N	N	
B09.040.016	1-50-01-206	50	11/30/2000	CLR	---	N	N	
B09.040.017	1-50-01-209	50	11/30/2000	CLR	---	N	N	
B13.010.001	1-RPV-INT-SURFACE	50	12/14/2000	REC	---	N	N	Indication that was found was reviewed by civil engineering and was determined to be a water stain caused by draining of RCS during low point maintenance. Water is trapped in retaining ring of vent valve and drains at this location. Therefore, VT-3 examination is complete and acceptable.
B14.010.002	1-RPV-CRD-46WH9	50	12/17/2000	CLR	---	N	N	
B14.010.005	1-RPV-CRD-46W60	50	12/17/2000	CLR	---	N	N	
B14.010.008	1-RPV-CRD-46	50	12/17/2000	CLR	---	N	N	
B14.010.011	1-RPV-CRD-46W61	50	12/16/2000	CLR	---	N	N	
C01.010.003	1-SGB-WG8-1	03	12/15/2000	REC	98.00%	N	N	Indication # 1 is a subsurface scan. The maximum depth of 0.65" less the minimum depth of 0.55" equals a through wall dimension of 0.100". This calculates to an a/l aspect ratio of .10. After linear interpolation was calculated there was an acceptable a/l percentage of 2.5%. The flaw actual a/l percentage was 1.2%. This is an acceptable indication in accordance with the

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								acceptance standards of ASME, Section XI, IWA-3000, Table IWB-3510-1. l= .5", T= 4.188", S= 3.538", 2a= 0.10", a= .05", a/l= .10, a/t= 1.2%.
C02.021.001	1-SGA-WG23-1	03	12/03/2000	CLR	31.58%	N	Y	Request for Relief # 01-01.
C02.021.001A	1-SGA-WG23-1	03	11/30/2000	CLR	---	N	N	
C03.020.012	1-01A-H9A	01A	12/17/2000	CLR	---	N	N	
C03.020.013	1-01A-H9B	01A	12/08/2000	CLR	---	N	N	
C03.020.041	1-53B-DE062	53B	08/22/2000	CLR	---	N	N	
C03.020.044	1-53B-H17	53B	08/22/2000	CLR	---	N	N	
C03.020.047	1-53B-H38	53B	08/21/2000	CLR	97.20%	N	N	
C03.020.054	1-53B-R29	53B	08/22/2000	CLR	---	N	N	
C03.020.056	1-53B-R8	53B	08/21/2000	CLR	---	N	N	
C03.020.057	1-54A-H5	54A	08/14/2000	CLR	---	N	N	
C03.020.063	1-54A-R6	54A	08/22/2000	CLR	---	N	N	
C03.020.081	1-51-SR50	51B	08/30/2000	CLR	---	N	N	
C03.020.085	1-51-SR9	51B	08/22/2000	CLR	---	N	N	
C05.011.006	1-53A-02-65L	53A	12/07/2000	REC	61.00%	Y	Y	Request for Relief # 01-01. Indication # 1 is a 360° intermittant indication due to id valve geometry. Condition verified with 0° contours, profiles and RT film review. Indication # 2 is a 360° intermittant indication due to id root geometry. Condition verified with 0° contours, profiles and RT film review. A 70° shear and 60° L was also used for confirmation. PIP O-00-04448 was written to document low thickness readings in the weld metal.
C05.011.006A	1-53A-02-65L	53A	12/07/2000	REC	---	N	N	During the inspection 5 indications were discovered. They were all rounded indications and were acceptable. A location of each indication is recorded on the NDE-35A form.
C05.021.004	1-51A-04-1C	51A	12/14/2000	REC	61.24%	Y	Y	Request for Relief # 01-01. Indication # 1-60° and Indication # 2-60° L are geometric reflectors from weld root configuration. This was verified using a 70° wedge on the 60° calibration, a WSY-70 Bi-Modal transducer and review of the RT film.
C05.021.004A	1-51A-04-1C	51A	12/11/2000	CLR	---	N	N	
C05.021.010	1-51A-123-1	51A	08/15/2000	CLR	---	N	N	
C05.021.010A	1-51A-123-1	51A	08/15/2000	CLR	---	N	N	
C05.021.015	1-51A-124-4	51A	08/15/2000	CLR	---	N	N	

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C05.021.015A	1-51A-124-4	51A	08/15/2000	CLR	---	N	N	
C05.021.021	1HP-184-5	51A	08/16/2000	CLR	---	N	N	
C05.021.021A	1HP-184-5	51A	08/16/2000	CLR	---	N	N	
C05.021.027	1HP-191-4	51A	08/15/2000	CLR	---	N	N	
C05.021.027A	1HP-191-4	51A	08/14/2000	CLR	---	N	N	
C05.021.033	1HP-200-17	51A	12/14/2000	REC	---	Y	N	Indication # 1-60° and Indication # 2-60° are geometric reflectors due to weld root configuration. This was verified using a 70° wedge on the 60° calibration and with a Bi-Modal transducer (WSY-70).
C05.021.033A	1HP-200-17	51A	12/11/2000	CLR	---	N	N	
C05.021.042	1HP-282-87AB	51A	08/24/2000	CLR	91.25%	N	N	
C05.021.042A	1HP-282-87AB	51A	08/23/2000	CLR	---	N	N	
C05.021.048	1-51A-01-118A	51A	08/28/2000	CLR	59.56%	N	Y	Request for Relief # 01-01.
C05.021.048A	1-51A-01-118A	51A	08/23/2000	CLR	---	N	N	
C05.021.054	1-51A-02-20B	51A	12/14/2000	CLR	58.10%	N	Y	Request for Relief # 01-01.
C05.021.054A	1-51A-02-20B	51A	12/12/2000	CLR	---	N	N	
C05.021.058	1-51A-03-70B	51A	08/16/2000	CLR	---	N	N	
C05.021.058A	1-51A-03-70B	51A	08/16/2000	CLR	---	N	N	
C05.021.064	1HP-193-17	51A	08/16/2000	CLR	60.40%	N	Y	Request for Relief # 01-01.
C05.021.064A	1HP-193-17	51A	08/16/2000	CLR	---	N	N	
C05.021.071	1-51A-137-25	51A	12/19/2000	CLR	---	N	N	
C05.021.071A	1-51A-137-25	51A	12/11/2000	CLR	---	N	N	
C05.021.080	1-51A-01-84A	51A	08/29/2000	CLR	---	N	N	
C05.021.080A	1-51A-01-84A	51A	08/23/2000	CLR	---	N	N	
C05.021.086	1-51A-02-16BH	51A	12/14/2000	CLR	58.10%	N	Y	Request for Relief # 01-01.
C05.021.086A	1-51A-02-16BH	51A	12/12/2000	CLR	---	N	N	
C05.021.092	1-51A-02-56B	51A	12/14/2000	CLR	---	N	N	
C05.021.092A	1-51A-02-56B	51A	12/12/2000	CLR	---	N	N	
C05.021.098	1HP-192-5A	51A	08/15/2000	CLR	---	N	N	
C05.021.098A	1HP-192-5A	51A	08/15/2000	CLR	---	N	N	
C05.021.108	1-51A-01-101A	51A	08/24/2000	CLR	60.16%	N	Y	Request for Relief # 01-01.
C05.021.108A	1-51A-01-101A	51A	08/23/2000	CLR	---	N	N	
C05.021.114	1HP-199-2	51A	12/14/2000	CLR	---	N	N	
C05.021.114A	1HP-199-2	51A	12/11/2000	CLR	---	N	N	
C05.041.006	1LP-004-12J	53B	08/22/2000	CLR	---	N	N	
C05.041.007	1LP-004-12JA	53B	08/22/2000	CLR	---	N	N	
C05.041.033	1-51A-01-54A	51A	08/23/2000	CLR	---	N	N	

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C05.051.008	1MS-001-29E	01A	12/08/2000	REC	---	Y	N	Indications # 1 and # 2 are determined to be geometric reflectors from the backing ring. This was verified by using a 70° shear wave and review of RT film. Indication # 3 is a reflector from a tack on the backing ring. This was found while scanning in the circumferential direction and is verified by the RT film.
C05.051.008A	1MS-001-29E	01A	12/09/2000	CLR	---	N	N	
C05.051.016	1-MS2A-A	01A	12/16/2000	REC	---	Y	N	Indications # 1 and # 2 are geometric reflectors due to backing ring. Indications would not hold a skew and amplitude with the 60° versus the amplitude with the 70° was 100% (60°) to 40% (70°). With a WSY-70 there was no response.
C05.051.016A	1-MS2A-A	01A	12/14/2000	CLR	---	N	N	
C05.051.021	1-03-3-43B	03	12/18/2000	REC	---	Y	N	Indications #1 and # 2 are geometric reflectors off of backing ring. Indications would not hold up to skewing. 70° shear produced less than 50% amplitude of 60°.
C05.051.021A	1-03-3-43B	03	12/18/2000	CLR	---	N	N	
C05.051.027	1-FWD65-A	03	12/20/2000	REC	---	Y	N	Indication # 1 is a geometrical reflector off counterbore. Indication # 2 is a geometrical reflector off the thickness change in weld root. 70° shear produced less than 50% amplitude of 60° shear. Indications would not hold up to skewing.
C05.051.027A	1-FWD65-A	03	12/14/2000	CLR	---	N	N	
C05.051.029	1-FWD87-A	03	12/18/2000	REC	---	Y	N	Indications # 1 and # 2 are geometrical reflectors off of backing ring. Indication # 3 is a geometrical reflector off of counterbore. Indications did not hold up to skewing. 70° shear produced less than 50% amplitude of 60°.
C05.051.029A	1-FWD87-A	03	12/18/2000	CLR	---	N	N	
C05.051.034	1-20B-21-16-7	20B	12/21/2000	CLR	---	N	N	
C05.051.034A	1-20B-21-16-7	20B	12/21/2000	CLR	---	N	N	
C05.051.043	1LPSW-345-35	14B	08/21/2000	CLR	---	N	N	
C05.051.043A	1LPSW-345-35	14B	08/17/2000	CLR	---	N	N	
C05.051.048	1-LPSW-346-19	14B	08/21/2000	CLR	---	N	N	
C05.051.048A	1-LPSW-346-19	14B	08/17/2000	CLR	---	N	N	
C05.051.053	1-14-19-47M	14B	08/21/2000	REC	---	Y	N	Indication # 1 is a geometrical reflector due to i.d. counterbore. This was determined by the use of multiple angles (60° shear, 70° shear and a WSY- 70). The signal would not hold up with a skewed angle. The signal amplitude with the 70° shear was less than 50% of the 60° shear response. This was also confirmed by the review of the RT film.

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C05.051.053A	1-14-19-47M	14B	08/17/2000	CLR	---	N	N	
C05.051.054	1-14-19-47MA	14B	08/21/2000	REC	---	Y	N	Indication # 1 is a geometrical reflector due to i.d. geometry of a backing ring. This was determined by the use of multiple angles (60° shear, 70° shear and a WSY-70). The signal would not hold up with a skewed angle. The signal amplitude with the 70° shear was less than 50% of the 60° shear response. This was also confirmed by the review of the RT film.
C05.051.054A	1-14-19-47MA	14B	08/17/2000	CLR	---	N	N	
D02.020.004	1-03-H49	03	12/06/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98339422 was written to correct problems.
D02.020.005	1-03-H51	03	12/06/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98339420 was written to correct problems.
D02.020.012	1-03A-H11	03A	09/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98321975 was written to correct problems.
D02.020.013	1-03A-H12	03A	09/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98347083 was written to correct problems.
D02.020.018	1-03A-H201	03A	09/25/2000	CLR	---	N	N	
D02.020.019	1-03A-H24	03A	09/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.020	1-03A-H28	03A	09/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98320392 was written to correct problems.
D02.020.032	1-03A-H72	03A	09/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98320473 was written to correct problems. Pip O-00-02180 was written because of a problem with the hanger sketch and id tag. The problems with the sketch and id tag are not service induced problems.
D02.020.042	1-03A-SR18	03A	12/15/2000	CLR	---	N	N	
D02.020.046	1-03A-SR39	03A	09/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.049	1-03A-SR47	03A	09/25/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98318822 was written to correct problems.

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D02.020.057	1-03A-SR86	03A	09/12/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98240937 was written to correct problems.
D02.020.058	1-03A-SR87	03A	09/25/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98318810 was written to correct problems.
D02.020.073	1-08-H4056	08	09/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98316690 was written to correct problems.
D02.020.080	1-14B-DE036	14B	10/03/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D02.020.092	1-14B-SR38	14B	10/03/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98321979 was written to correct problems.
D02.020.100	1-14B-SR62	14B	10/03/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98321981 was written to correct problems.
D02.040.002	1-02A-H12	01A	09/25/2000	CLR	---	N	N	
D03.020.005	1-56-H34	56	10/03/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D03.020.014	1-56-SR14	56	08/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D03.020.015	1-56-SR15	56	08/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D03.020.018	1-56-SR22	56	09/14/2000	CLR	---	N	N	
D03.020.019	1-56-SR23	56	09/14/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D03.020.020	1-56-SR24	56	09/14/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
D03.020.022	1-56-SR9	56	10/03/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.010.008	1-59-H33	59	11/27/2000	CLR	---	N	N	
F01.011.005	1-53-H2	53	12/08/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98160697 was written to correct problems.
F01.011.006	1-53A-H36C	53A	11/27/2000	CLR	---	N	N	
F01.012.017	1-50-RCPM-S9	50	11/25/2000	CLR	---	N	N	

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F01.020.004	1-03-H1B	03	12/07/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.020.013	1-51-DE064	51B	08/17/2000	CLR	---	N	N	
F01.020.018	1-51A-H2	51A	08/29/2000	CLR	---	N	N	
F01.020.020	1-51A-SR58	51A	08/17/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98308376 was written to correct problems.
F01.020.026	1-53B-DE065	53B	08/17/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.020.030	1-53B-H33	53B	09/14/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.020.033	1-53B-H67	53B	08/17/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98145280 was written to correct problems.
F01.020.047	1-51-SR50	51B	08/29/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98312401 was written to correct problems.
F01.020.051	1-51-SR9	51B	08/30/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.021.004	1-14B-H17B	14	12/01/2000	REP	---	N	N	The discrepancies found were reviewed by civil engineering and the support was found to be inoperable. The discrepancies found were determined not to be service induced. PIP # O-00-04380 was written to document the problems. Work Order # 98274463 was written to restore these supports to an operable status. Since the degradation was not service induced, additional inspections per Code Case 491, subparagraph 2430 are not required.
F01.021.015	1-53A-DBR-H0001	53A	12/07/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.021.017	1-53B-DE053	53B	09/14/2000	CLR	---	N	N	
F01.021.018	1-53B-H38	53B	08/17/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.021.020	1-53B-R8	53B	08/17/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.021.029	1-51A-H13C	51A	12/07/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.022.019	1-53B-H23	53B	08/30/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work

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								Order # 98312411 was written to correct problems.
F01.022.021	1-53B-R3	53B	08/29/2000	CLR	---	N	N	
F01.022.022	1-54A-DE015	54A	08/17/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98308379 was written to correct problems.
F01.030.007	1-03A-H131	03A	09/25/2000	CLR	---	N	N	
F01.030.026	1-14B-DE036	14B	10/03/2000	CLR	---	N	N	
F01.030.027	1-14B-DE064	14B	10/03/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98321984 was written to correct problems.
F01.030.028	1-14B-DE086	14B	09/12/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.030.038	1-56-JTC-2901	56	11/27/2000	CLR	---	N	N	
F01.030.039	1-56-SR14	56	08/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.031.003	1-03A-H120	03A	09/12/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.031.006	1-04A-R5	04A	09/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.031.013	1-56-H5129	56	09/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.032.002	1-02A-H12	01A	09/25/2000	CLR	---	N	N	
F01.032.007	1-07A-H8	07A	09/25/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98318499 was written to correct problems.
F01.040.014	1-LPSW-PU-B	14B	09/12/2000	CLR	---	N	N	
F01.040.016	1-MCD-C	07A	09/26/2000	CLR	---	N	N	
F01.040.017	1-RBCC-A	53A	10/03/2000	CLR	---	N	N	
F01.040.025	1-BWS-TANK		08/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.040.028	1-CON-BOR-TANK		08/02/1999	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98185255 was written to correct problems.
F01.040.029	1-PEN-ROOM-FLTR-A		08/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98311831 was written to correct problems.
F01.040.030	1-PEN-ROOM-FAN 1A		09/18/2000	CLR	---	N	N	

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F01.050.001	1-50-H12	50	12/14/2000	CLR	---	N	N	
F01.050.002	1-50-H1A	50	11/24/2000	CLR	---	N	N	
F01.050.003	1-50-H2A	50	11/24/2000	CLR	---	N	N	
F01.050.004	1-50-H3	50	11/24/2000	CLR	---	N	N	
F01.050.005	1-50-H3A	50	11/24/2000	CLR	---	N	N	
F01.050.006	1-50-H7	50	11/24/2000	CLR	---	N	N	
F01.050.007	1-50-H8	50	11/24/2000	CLR	---	N	N	
F01.050.008	1-50-H9	50	11/24/2000	CLR	---	N	N	
F01.050.009	1-50-H10	50	11/24/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.011	1-50-H1	50	11/24/2000	CLR	---	N	N	
F01.050.012	1-51A-H17A	51A	11/24/2000	CLR	---	N	N	
F01.050.013	1-53A-H5A	53A	11/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.014	1-53A-H5B	53A	11/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.015	1-03-H7B	03	11/25/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.016	1-50-H11	50	11/24/2000	CLR	---	N	N	
F01.050.017	1-03-H10A	03	11/24/2000	CLR	---	N	N	
F01.050.018	1-53A-H40C	53A	11/24/2000	CLR	---	N	N	
F01.050.019	1-53A-H41C	53A	11/24/2000	CLR	---	N	N	
F01.050.020	1-57-H10	57	11/24/2000	CLR	---	N	N	
F01.050.021	1-57-H11	57	11/24/2000	CLR	---	N	N	
F01.050.022	1-50-H13A	50	11/24/2000	CLR	---	N	N	
F01.050.023	1-57-H14	57	11/24/2000	CLR	---	N	N	
F01.050.024	1-57-H15	57	11/24/2000	CLR	---	N	N	
F01.050.025	1-57-H17	57	11/24/2000	CLR	---	N	N	
F01.050.026	1-57-H18	57	11/24/2000	CLR	---	N	N	
F01.050.027	1-57-H22	57	11/24/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.028	1-57-H26	57	11/24/2000	CLR	---	N	N	
F01.050.029	1-57-H9	57	11/24/2000	CLR	---	N	N	
F01.050.030	1-01A-H10B	01A	11/24/2000	CLR	---	N	N	
F01.050.031	1-01A-H11A	01A	11/24/2000	CLR	---	N	N	
F01.050.032	1-01A-H11B	01A	11/24/2000	CLR	---	N	N	
F01.050.033	1-01A-H12A	01A	11/24/2000	CLR	---	N	N	

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F01.050.034	1-01A-DE005	01A	11/27/2000	REC	---	N	N	No engineering evaluation needed per Specification # OS-0027.00-00-0002, Section 9.6. Work Order # 98235589-04 was written to lubricate the bearings.
F01.050.035	1-01A-DE006	01A	11/27/2000	CLR	---	N	N	
F01.050.036	1-01A-R-2-1	01A	11/27/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.037	1-01A-R-2-2	01A	11/27/2000	CLR	---	N	N	
F01.050.038	1-01A-R12	01A	09/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.039	1-01A-R9-1	01A	11/27/2000	CLR	---	N	N	
F01.050.040	1-01A-R9-2	01A	11/27/2000	CLR	---	N	N	
F01.050.041	1-01A-R9-3	01A	11/27/2000	CLR	---	N	N	
F01.050.042	1-01A-R9-4	01A	11/27/2000	CLR	---	N	N	
F01.050.043	1-03-R12	03	09/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.044	1-03-R7	03	09/20/2000	CLR	---	N	N	
F01.050.045	1-03A-SR56	03A	08/28/2000	CLR	---	N	N	
F01.050.046	1-03A-SR57	03A	08/23/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98309236 was written to correct problems.
F01.050.047	1-03A-SR58	03A	08/28/2000	CLR	---	N	N	
F01.050.048	1-03A-SR59	03A	08/28/2000	CLR	---	N	N	
F01.050.049	1-03A-SR50	03A	09/20/2000	CLR	---	N	N	
F01.050.050	1-03A-SR63	03A	08/29/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98317172 was written to correct problems.
F01.050.051	1-03A-SR64	03A	09/21/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98247664 was written to functional test snubber.
F01.050.053	1-01A-H44	01A	09/19/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.055	1-01A-R2	01A	09/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.056	1-03A-DE058	03A	09/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.057	1-03-H4171	03	09/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.

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F01.050.058	1-53B-DE056	53B	08/17/2000	CLR	---	N	N	
F01.050.059	1-53B-DE059	53B	08/17/2000	CLR	---	N	N	
F01.050.060	1-53B-DE066	53B	08/17/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.061	1-54A-DE-020	54A	08/17/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.062	1-54A-DE015	54A	08/17/2000	CLR	---	N	N	
F01.050.063	1-51A-DE001A	51A	08/17/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.064	1-53B-DE060	53B	08/29/2000	CLR	---	N	N	
F01.050.065	1-53B-DE055	53B	08/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.066	1-53B-DE057	53B	08/22/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.067	1-51A-H102	51A	09/21/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.068	1-51A-H97	51A	09/21/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.069	1-54A-R16	54A	09/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98335942 was written to correct problems.
F01.050.070	1-51A-H80	51A	09/14/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.071	1-51A-H86	51A	09/14/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.072	1-53A-GPD-H0010	53A	11/24/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.073	1-03-H6068	03	11/25/2000	CLR	---	N	N	
F01.050.074	1-03-H6020	03	11/25/2000	CLR	---	N	N	
F01.050.075	1-03-H6070	03	11/24/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.076	1-03-H6071	03	11/25/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.077	1-57-NW1Z	57	11/24/2000	CLR	---	N	N	
F01.050.078	1-57-H23	57	11/24/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98337278 was written to correct problems.

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F01.050.079	1-01A-R11	01A	09/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.080	1-01A-R4	01A	09/18/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.081	1-01A-R5	01A	09/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.082	1-01A-R6	01A	09/25/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.083	1-01A-R7	01A	11/28/2000	CLR	---	N	N	
F01.050.084	1-03-R13	03	09/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.085	1-03A-H115	03A	09/12/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.086	1-03A-H123	03A	08/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98317168 was written to correct problems.
F01.050.087	1-03A-SR62	03A	10/03/2000	CLR	---	N	N	
F01.050.088	1-01A-H43	01A	09/20/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service. Work Order # 98177674 was written to correct problems.
F01.050.089	1-01A-R11	01A	09/25/2000	CLR	---	N	N	
F01.050.090	1-07A-H39	07A	09/25/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.091	1-07A-H40	07A	08/28/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.092	1-07A-H41	07A	08/28/2000	CLR	---	N	N	
F01.050.093	1-50-RCPM-S1	50	11/24/2000	CLR	---	N	N	
F01.050.094	1-50-RCPM-S2	50	11/24/2000	CLR	---	N	N	
F01.050.095	1-50-RCPM-S3	50	11/24/2000	CLR	---	N	N	
F01.050.096	1-50-RCPM-S4	50	11/24/2000	CLR	---	N	N	
F01.050.097	1-50-RCPM-S5	50	11/24/2000	CLR	---	N	N	
F01.050.098	1-50-RCPM-S6	50	11/24/2000	CLR	---	N	N	
F01.050.099	1-50-RCPM-S7	50	11/25/2000	CLR	---	N	N	
F01.050.100	1-50-RCPM-S8	50	11/25/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.
F01.050.101	1-50-RCPM-S9	50	11/25/2000	REC	---	N	N	Discrepancies that were found were reviewed by civil engineering and the support was found to be acceptable for service.

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F01.050.102	1-50-RCPM-S10	50	11/25/2000	CLR	---	N	N	
F01.050.103	1-50-RCPM-S11	50	11/25/2000	CLR	---	N	N	
F01.050.104	1-50-RCPM-S12	50	11/25/2000	CLR	---	N	N	
G01.001.001	1-RCP-1A1	50	12/12/2000	CLR	---	N	N	
G01.001.002	1-RCP-1A2	50	12/13/2000	CLR	---	N	N	
G01.001.003	1-RCP-1B1	50	12/15/2000	CLR	---	N	N	
G01.001.004	1-RCP-1B2	50	12/18/2000	CLR	---	N	N	
G02.001.005A	1-PDA1-46	51A	12/05/2000	CLR	---	N	N	
G02.001.005B	1-PDA2-46	51A	12/05/2000	CLR	---	N	N	
G02.001.005C	1-PDB1-46	51A	12/05/2000	CLR	---	N	N	
G02.001.005D	1-PDB2-46	51A	12/05/2000	CLR	---	N	N	
G02.001.006A	1-PDA1-11	51A	12/02/2000	CLR	---	N	N	
G02.001.006B	1-PDA2-11	51A	12/02/2000	CLR	---	N	N	
G02.001.006C	1-PDB1-11	51A	12/02/2000	CLR	---	N	N	
G02.001.006D	1-PDB2-11	51A	12/02/2000	CLR	---	N	N	
G02.001.007A	1-PDA1-47	51A	12/02/2000	CLR	---	N	N	
G02.001.007B	1-PDA2-47	51A	12/02/2000	CLR	---	N	N	
G02.001.007C	1-PDB1-47	51A	12/02/2000	CLR	---	N	N	
G02.001.007D	1-PDB2-47	51A	12/02/2000	CLR	---	N	N	
G02.001.008A	1RC-199-154	51A	12/05/2000	CLR	---	N	N	
G02.001.008B	1RC-200-161	51A	12/05/2000	REC	---	Y	N	Indication # 1-60°L and Indication # 2-60°S are geometric reflectors due to weld root configuration. This was verified using a 70° wedge on the 60° calibration, a WSY-70 Bi-Modal and review of RT film. This was the resolution during the initial inspection on 6-17-1997 and the indications did not change during this inspection.
G02.001.008C	1RC-201-101	51A	12/02/2000	CLR	---	N	N	
G02.001.008D	1RC-201-102	51A	12/04/2000	REP	---	N	N	Weld 1RC-201-102 had 2 rejectable indications and the weld was cut out and replaced with weld 1RC-201-105. PSI was performed on the new weld. See PIP O-00-04343 for details.
G02.001.010A	1RC-199-149	51A	12/05/2000	REC	---	Y	N	Indication # 1-60°L is a geometric reflector due to weld root configuration. This was verified using a 70° S wedge on a 60° S calibration, a Bi-Modal transducer and review of RT film.
G02.001.010B	1RC-200-160	51A	12/05/2000	CLR	---	N	N	
G02.001.010C	1RC-201-97	51A	12/02/2000	CLR	---	N	N	
G02.001.010D	1RC-201-92	51A	12/02/2000	CLR	---	N	N	
G02.001.011A	1A1-THERM SLEEVE	51A	11/29/2000	CLR	---	N	N	

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G02.001.011B	1A2-THERM SLEEVE	51A	11/30/2000	CLR	---	N	N	
G02.001.011C	1B1-THERM SLEEVE	51A	12/01/2000	CLR	---	N	N	Compares to radiographs made 6-18-97 on 1B1 thermal sleeve: 9/16" gap inner-outer sleeve Top-0- exposurer; 5/8" gap inner-outer sleeve Side -2-exposure.
G02.001.011D	1B2-THERM SLEEVE	51A	12/02/2000	CLR	---	N	N	Compared to radiographs made 6-17-97 on 1B2 thermal sleeve: 7/8" gap outer sleeve-safe-end (same as previous exposure); 1 and 1/16" gap inner sleeve-outer sleeve (same as previous exposure). #5 area was radiographed and film read on 12-7-2000.
G03.001.001	1-PSL-11	50	11/30/2000	CLR	---	N	N	
G04.001.001	1RC-201-102	51A	12/04/2000	REP	---	N	N	Weld 1RC-201-102 had 2 rejectable indications and the weld was cut out and replaced with weld 1RC-201-105. PSI was performed on the new weld. See PIP O-00-04343 for details.
G04.001.002	1RC-201-92	51A	12/02/2000	CLR	---	N	N	
G04.001.003	1RC-201-101	51A	12/02/2000	CLR	---	N	N	
G04.001.004	1RC-201-97	51A	12/02/2000	CLR	---	N	N	
G04.001.013	1RC-201-91	51A	12/02/2000	CLR	---	N	N	Because of the Valve to Valve configuration, RT examination was also performed to get more area coverage. R.L.Gantt was the radiographer and J.K. Todd performed the second review. The RT was performed on 12-13-2000 and the area examined was found to be acceptable.
G04.001.014	1RC-201-96	51A	12/02/2000	CLR	---	N	N	Because of the Valve to Valve configuration, RT examination was also performed to get more area coverage. D.L.Robinson was the radiographer and R.L. Gantt performed the second review. The RT was performed on 12-13-2000 and the area examined was found to be acceptable.
G04.001.020	1RC-200-166	51A	12/05/2000	CLR	---	N	N	Because of the Valve to Valve configuration, RT examination was also performed to get more area coverage. D.L.Robinson was the radiographer and R. Jones performed the second review. The RT was performed on 12-18-2000 and the area examined was found to be acceptable.
G04.001.024	1RC-199-150	51A	12/05/2000	CLR	---	N	N	Because of the Valve to Valve configuration, RT examination was also performed to get more area coverage. R. Jones was the radiographer and D.L. Robinson performed the second review. The RT was performed on 12-18-2000 and the area examined was found to be acceptable.
G04.001.028	1RC-199-149	51A	12/05/2000	REC	---	Y	N	Indication # 1-60°L is a geometric reflector due to weld root configuration. This was verified using a 70° S wedge on a 60° S

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								calibration, a Bi-Modal transducer and review of the RT film.
G04.001.029	1RC-199-154	51A	12/05/2000	CLR	---	N	N	
G04.001.030	1RC-200-160	51A	12/05/2000	CLR	---	N	N	
G04.001.031	1RC-200-161	51A	12/05/2000	REC	---	Y	N	Indication # 1-60°L and Indication # 2-60°S are geometric reflectors due to weld root configuration. This was verified using a 70° wedge on the 60° calibration, a WSY-70 Bi-Modal and review of the RT film. This was the resolution during the initial inspection on 6-17-1997 and the indications did not change during this inspection.
G09.001.004	1-51A-01-64A	51A	08/23/2000	CLR	---	N	N	
G09.001.010	1-53B-03-33E	53B	08/21/2000	CLR	---	N	N	
G09.001.016	1-53B-05-54JB	53B	08/22/2000	CLR	---	N	N	
G09.001.022	1-53B-07-24	53B	08/22/2000	CLR	---	N	N	
G09.001.028	1LP-94-2	53B	08/22/2000	CLR	---	N	N	
G09.001.034	1-54A-03-05C	54A	08/21/2000	CLR	---	N	N	
G09.001.040	1-54A-04-88C	54A	08/15/2000	CLR	---	N	N	
G09.001.046	1SF-107-30A	56	12/07/2000	CLR	---	N	N	
G09.001.047	1LPS-411-1	14B	12/07/2000	CLR	---	N	N	
G09.001.048	1LPS-414-5	14B	12/07/2000	CLR	---	N	N	
G09.001.049	1LPS-417-5	14B	12/07/2000	CLR	---	N	N	
G10.001.008	1-PIA2-12	50	11/30/2000	CLR	---	N	N	
G12.001.003	1-51B-1-11A	51B	12/14/2000	CLR	---	N	N	
G12.001.006	1-51B-1-81A	51B	12/14/2000	CLR	---	N	N	
G12.001.011	1-51B-2-91AH	51B	12/15/2000	CLR	---	N	N	
G12.001.017	1-51B-5-6BJ	51B	12/14/2000	CLR	---	N	N	

**5.2** Limited examinations (i.e., less than or equal to 90% of the required examination coverage obtained) identified during EOC 19 (Outage 4) are shown below. A copy of the Request for Relief is contained in Section 9.0 of this report

<b><u>Item Number</u></b>	<b><u>Request for Relief Serial Number</u></b>
B03.110.005	01-01
B03.110.009	01-01
B03.110.010	01-01
B03.120.009	01-01
B03.120.010	01-01
B03.130.003	99-01
B03.130.004	99-01
B03.140.003	99-01
B03.140.004	99-01
B09.011.017	01-01
C02.021.001	01-01
C05.011.006	01-01
C05.021.004	01-01
C05.021.048	01-01
C05.021.054	01-01
C05.021.064	01-01
C05.021.086	01-01
C05.021.108	01-01

## **6.0 Reportable Indications**

EOC 19 (Outage 4) had two reportable items.

PIP O-00-04343 was written to document a problem found with weld 1RC-201-102 (Item Numbers G02.001.008D and G04.001.001). There were 2 reportable indications found during UT examination on weld 1RC-201-102. This weld was cut out and replaced with weld 1RC-201-105. PSI inspection was performed on the new weld. This weld had 3 item numbers (B09.021.008, G02.001.008D and G04.001.001) because it is being looked at for Section XI requirements, Generic Letter 85-20 and for USNRC Bulletin 88-08.

PIP O-00-04380 was written to document a problem found with hanger 1-14B-H17B (Item Number F01.021.004). There were recordable indications found during VT-3 examination on hanger 1-14B-H17B. The indications were reviewed by civil engineering and the support was found to be unacceptable for service. The discrepancies were corrected under Work Order # 98274463 prior to the plant startup. The indications were not service induced, therefore there are not any additional examinations required and there will not be any surveillance inspections required.

## **7.0 Personnel, Equipment and Material Certifications**

All personnel who performed or evaluated the results of inservice inspections from July 8, 1999 to January 13, 2001 at Oconee Nuclear Station, Unit 1, were certified in accordance with the requirements of 1989 Edition of ASME Section XI with no addenda. The appropriate certification records for each inspector are on file at Oconee Nuclear Station or copies can be obtained by contacting the Duke Energy's Corporate Office in Charlotte, North Carolina.

Records of periodic calibration of inspection equipment are on file at Oconee Nuclear Station or copies can be obtained by contacting the Duke Energy's Corporate Office in Charlotte, North Carolina.

Records of materials used, (i.e., NDE consumables) are on file at Oconee Nuclear Station or copies can be obtained by contacting the Duke Energy's Corporate Office in Charlotte, North Carolina.

## **8.0 Corrective Action**

PIP O-00-04343 was written to document a problem found with weld 1RC-201-102 (Item Numbers G02.001.008D and G04.001.001). There were 2 reportable indications found during UT examination on weld 1RC-201-102. This weld was cut out and replaced with weld 1RC-201-105. A pre-service inspection was performed on the new weld. This weld had 3 item numbers (B09.021.008, G02.001.008D and G04.001.001) because it is being looked at for Section XI requirements, Generic Letter 85-20 and for USNRC Bulletin 88-08. There are not any surveillance inspections or additional inspections incurred due to the reportable indications that were found because all of the HPI nozzle welds are being inspected every other outage for the life of the plant. A copy of PIP O-00-04343 is included in Section 9 of this report.

PIP O-00-04448 was written to document a problem found with weld 1-53A-02-65L (Item Number C05.011.006). There were low thickness readings found in the weld area during UT inspection. Engineering reviewed the problem and found the weld to be acceptable. No additional corrective action is needed. A copy of PIP O-00-04448 is included in Section 9 of this report.

PIP O-00-04380 was written to document a problem found with hanger 1-14B-H17B (Item Number F01.021.004). There were recordable indications found during VT-3 examination on hanger 1-14B-H17B. The indications were reviewed by civil engineering and the support was found to be unacceptable for service. The discrepancies were corrected under Work Order # 98274463 prior to the plant startup. The indications were not service induced, therefore additional samples per Code Case N-491, Subparagraph -2430 are not required. No additional corrective action is needed. A copy of PIP O-00-04380 is included in Section 9 of this report.

PIP O-00-02180 was written to document a problem found with hanger 1-03A-H72 (Item Number D02.020.032). There were problems with the hanger id tag and the hanger sketch and are not service induced. Minor Mod ONOE-15308 was written to revise sketch and work order 98134985 was written to correct id tag. No additional corrective action is needed. A copy of PIP O-00-02180 is included in Section 9 of this report.